Course Descriptions

Course Description Legend

COURSE CODE / COURSE TITLE . . . NUMBER OF CREDITS

cr . . . . . Credit(s)
PQ . . . . . Prerequisite(s)
* . . . . . Course offered alternate years
** . . . . . Course offered when feasible
#. . . . . Traditional undergraduate courses also offered through Undergraduate Online Learning
##. . . . . Only offered through Undergraduate Online Learning
+ . . . . . Course for which competency may be demonstrated.

Directed studies and topics courses are available. See page 27.

Traditional Undergraduate Courses

Accounting

ACC2101 Principles of Accounting I . . . . . 4 cr
(**PQ**: MAT2035 or MAT2121 or ACT Math score of 24 or above [SAT Math score of 560 or above], or consent of instructor**)** A study of the accounting information system and financial statements including the accounting cycle, internal control, cash, receivables, inventories, plant and equipment, depreciation, and current liabilities.

ACC2102 Principles of Accounting II . . . . . 4 cr
(**PQ**: C or better in ACC2101**)** A study of partnership and corporate accounting, present value techniques, long-term debt, investments, statements of cash flow, financial statement analysis, managerial accounting principles and systems, decision analysis, job order costing, and process costing.

ACC3201 Intermediate Accounting I . . . . . 4 cr
(**PQ**: C or better in ACC2102, or concurrently enrolled) A study of accounting theory and techniques as related to income determination, asset valuation, and liability valuation**.**

ACC3202 Intermediate Accounting II . . . . . 4 cr
(**PQ**: C or better in ACC3201**)** A continuation of ACC3201, dealing with accounting for pension plans, earnings per share, required disclosures, leases, and financial statement analysis.

ACC3206 Cost Accounting . . . . . 4 cr
(**PQ**: C or better in ACC2102**)** A study of the techniques and methods of job order costing, process costing, and standard costing, and their managerial applications**.**

ACC4305 Auditing* . . . . . 4 cr
(**PQ**: C or better in ACC3202, or concurrently enrolled, or consent of instructor) The procedures, standards, ethics, and legal responsibilities of an auditor**.**

ACC4306 Income Taxation . . . . . 4 cr
Federal income tax law as it applies to individuals, corporations, and partnerships, including business and personal deductions, capital gains and losses, installment sales, and depreciation. Emphasis on tax rationale and tax planning.

ACC4307 Advanced Accounting* . . . . . 4 cr
(**PQ**: C or better in ACC3202, or concurrently enrolled, or consent of instructor) Special problems in accounting, including consolidated statements, partnerships, fiduciaries, and fund accounting.

Ancient & Classical Languages

ACL2001 Elementary Greek I# . . . . . 4 cr
The first course in a year-long sequence introducing elements of Classical and Koine Greek morphology, syntax, and vocabulary. Emphasis is on reading classical and New Testament Greek. Equivalent to ACL2009 (see Graduate & Continuing Education catalog).

ACL2002 Elementary Greek II# . . . . . 4 cr
(**PQ**: ACL2001 or consent of instructor**)** The second course in a year-long sequence introducing elements of Classical and Koine Greek morphology, syntax, and vocabulary. Continued emphasis on reading classical and New Testament Greek. Equivalent to ACL2019 (see Graduate & Continuing Education catalog).

ACL3011 Classical Hebrew I* . . . . . 4 cr
The first course in a year-long sequence introducing elements of Classical (Biblical) Hebrew morphology, syntax, and vocabulary. Elements of conversational Modern Hebrew are also included.

ACL3012 Classical Hebrew II* . . . . . 4 cr
(**PQ**: ACL3011 or consent of instructor**)** The second course in a year-long sequence introducing elements of Classical (Biblical) Hebrew morphology, syntax, and vocabulary. Elements of conversational Modern Hebrew are also included.

ACL3021 Classical Latin I* . . . . . 4 cr
The first course in a year-long sequence introducing the elements of Classical Latin morphology, syntax, and vocabulary. Students read portions of Cicero, Horace, and other Latin authors.

ACL3022 Classical Latin II* . . . . . 4 cr
(**PQ**: ACL3021 or consent of instructor**)** The second course in a year-long sequence introducing the elements of Classical Latin morphology, syntax, and vocabulary. Students read portions of Cicero, Horace, and other Latin authors.

ACL3031 Biblical Aramaic** . . . . . 4 cr
(**PQ**: ACL3012**)** An introduction to the elements of Aramaic grammar. Readings derive from Daniel 2–7 and Ezra 4–7.

ACL3041 Egyptian Hieroglyphics I** . . . . . 4 cr
An introductory study of the script, grammar, and syntax of the ancient Egyptian language used ca. 2000–1200 B.C.

ACL3042 Egyptian Hieroglyphics II** . . . . . 4 cr
(**PQ**: ACL3041**)** Continued study of the script, grammar, and syntax of the ancient Egyptian language used ca. 2000–1200 B.C.

ACL3201 Intermediate Greek I . . . . . 4 cr
(**PQ**: ACL2002 or consent of instructor**)** The first course in a year-long sequence to improve students' abilities in Greek grammar and syntax and their application to reading and exegesis.

ACL3202 Intermediate Greek II. . . . . 4 cr
(**PQ**: ACL3201 or consent of instructor**)** The second course in a year-long sequence to improve students' abilities in Greek grammar and syntax and their application to reading and exegesis.

ACL4301 Advanced Greek I** . . . . . 1–4 cr
(**PQ**: ACL3202 or consent of instructor**)** The first course in a year-long sequence devoted to extended reading of Classical and Koine Greek authors and/or detailed exegesis of biblical texts, according to student needs**.** This course can be taken as a directed study.

ACL4302 Advanced Greek II** . . . . . 1–4 cr
(**PQ**: ACL4301 or consent of instructor**)** The second course in a year-long sequence devoted to extended reading of Classical and Koine Greek authors and/or detailed exegesis of biblical texts, according to student needs. May be taken without having completed ACL4301**.** This course can be taken as a directed study.

Anthropology

Directed studies are available. See page 27.

ANT1045 Introduction to Anthropology . . . . . 4 cr
A survey of the four branches of anthropology: physical-human origins and the creation/evolution debate; historical-archaeology, the study of past civilizations; linguistic-communication systems; cultural-man's key to survival.

ANT2045 Cultural Anthropology . . . . . 4 cr
A study of selected individual societies ranging from bands to states, representing a wide range of geographical environments. Students make an in-depth study of one particular society. Equivalent to ANT2049 (see Graduate & Continuing Education catalog).

Art

ART1005 Principles of Art . . . . . 2 cr
An introductory study of art appreciation. The course covers the elements and principles of design as an entry into discussion surrounding the meaning and purpose of visual imagery. Concepts emerge from the content areas of aesthetics, art history, and critical inquiry. Equivalent to ART1009 (see Graduate & Continuing Education catalog).

ART1007 Art Appreciation . . . . . 3 cr
An introductory study of art appreciation. The course covers art-related vocabulary, focused observation, historical context, and the elements and principles of design as an entry into discussion surrounding the meaning and purpose of visual imagery. Concepts emerge from the content areas of aesthetics, art history, and critical inquiry. Equivalent to ART1005. Offered through the Undergraduate Online Learning venue only.

ART1011 Drawing I . . . . . 4 cr
(**PQ**: art, design, digital media arts, graphic design, or visual art education majors/minors or consent of instructor**)** A foundational-level drawing class focusing on landscape, still life, and the figure, using traditional materials and techniques. Emphasis is placed on visual sensitivity and basic technique, with specific studies in anatomy.

ART1035 Design Concepts . . . . . 4 cr
(**PQ**: ART1005 or ART1825, or concurrent enrollment, or consent of instructor**)** An introductory course in understanding and application or principles and elements of two-dimensional and three-dimensional art.

ART1825 Honors Topics: Art Appreciation . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** A more in-depth study of a particular historical period or geographic location of visual art. Focus of the course is on descriptive, interpretive, and evaluative analysis of art.

ART2045 Wheel Thrown Ceramics . . . . . 2 cr
This course will explore the wheel thrown functional object. Students will learn clay forming and firing techniques. Students will be encouraged to develop a style when designing a dinnerware set.

ART2046 Industrial Ceramics . . . . . 2 cr
This course will explore the industrial ceramic processes of prototypes, mold making and the production of multiples. This process allows for the production of both functional and sculptural ceramic forms.

ART2047 Hand-Building Ceramics and Alternative Firing . . . . . 2 cr
This course will primarily focus on the major hand-building methods of forming ceramics: pinch, slab, coil, carving. The students will be encouraged to create both functional and sculptural ceramic objects. This course will also explore the firing processes of raku, pit, and saggar firing!

ART2048 Ceramic Basics. . . . . 2 cr
This course will explore the fundamental methods of making ceramic forms as well as glazing and firing. This course is specially designed to meet the requirements necessary for Visual Art Education students but is open to all students. This course will explore functional ceramics and sculptural forms.

ART2175 Art and Technology . . . . . 2 cr
(**PQ:** ART1035) A studio-based course employing a wide range of modern technologies commonly used in the creation of artwork. Focus will be on achieving proficiency with these technologies and using them both to generate and output artwork across a variety of disciplines.

ART2185 Color Theory. . . . . 2 cr
(**PQ:** ART1035) This course covers the principles of color theory and the historical development of the science of color. Course emphasis is placed on color relationships, composition, and color mixture. Students will study the effects of color on the development of design as well as the psychology of color.

ART2251 Sculpture . . . . . 2 or 4 cr
(**PQ**: ART1035; for art and visual art education majors only or consent of instructor**)** An introductory-level sculpture course exploring the use of sculptural techniques, materials, and strategies. Emphasis is placed on understanding the history of and current trends within contemporary sculpture, as well as applying that knowledge in the creation of a variety of sculptural forms.

ART3015 Watercolor . . . . . 4 cr
(**PQ:** ART1011 or consent of instructor) This course will provide an exploration of watercolor focusing on the development of skills that are unique to this medium. Technical information will be presented and reviewed so that the student will feel confident in pursuing his/her coursework. Demonstrations, directed studio work, and field trips will provide a basis for increasing proficiency in watercolor. Other water based media such as casein and gouache will be examined.

ART3025 The God We See . . . . . 2 cr
An introductory study of how visual images portray spiritual meaning, with particular concern for biblical orthodoxy. Alongside the very clear command against the use of idols in worshipping God, Old Testament Israel was given very clear instructions about the inclusion of artistic representations in their worship centers. Art is useful to the spiritual life and in this course students will examine the relationship of the visual form to God's Word (the Bible).

ART3026 Relief . . . . . 2 cr
This eight-week class will be centered on the two ideas, reductive printing and additive printing. The two major projects in this class will be developing images and print skills to create sophisticated finished prints using these two concepts. These assignments will include the use of digital technologies like the cnc router and photopolymer relief plates.

ART3027 Etching. . . . . 2 cr
This is an eight-week class that focuses on etching and intaglio techniques. There will be two major projects, one dealing with the translation of drawing and drawing techniques as it relates to matrixes. The second assignment will be centered on alternative intaglio techniques and how they can be incorporated into traditional and contemporary ideas of making.

ART3028 Screen Printing. . . . . 2 cr
This class will focus on contemporary and traditional techniques as they relate to screen-printing. There will be 2 major projects over the course of the eight weeks. One will deal with the ideas and concept of designing for and around the limitations of screen-printing. The second will examine digital and digital output as it relates to commercial printing, focusing on the outputting images that have been designed and created digitally.

ART3029 Lithography. . . . . 2 cr
Lithography will be a class that takes a Design heavy approach to printmaking. The two major projects in this class will be related to print production and output as it relates to the designer printer relationship. Its primary focus is to train designers and artist the "ART" of prepress, prepress techniques and how prepress techniques relate to fallibility of the print process.

ART3060 German Art: Expressionism to the Present. . . . . 2 cr
This course is an in-depth study of German Art and Architecture from 1789 to the present and ancient antiquities of Egypt, Babylon, and the Mediterranean currently displayed in museums in Berlin and Munich. Since the Expressionists startled viewers into an active participation rather than a passive contemplation of art, German artists have contributed a unique perspective to the avant-garde. Between the two world wars, the Bauhaus school set out to change the quality of the designed object. This unique German school significantly impacted art and architecture in the twentieth century. This course will critically investigate these fascinating contributions.

ART3065 Antiquities . . . . . 2 cr
This is an eight-week class that explores the classical world. It primary focus will be on the art, literature and philosophies of these three cultures, and how they interrelate and influence each other in the ancient world. This course is designed so that students will see the influences both culturally as well as in art making and art objects.

ART3066 Renaissance. . . . . 2 cr
This eight-week class tackles the idea of the rebirth of ideas and innovation that spread throughout Europe from the end of the dark ages into the renaissance of Italy and Northern Europe, 1350-1500. The focus and research and study will be on painting, sculpture, drawing, design, and architecture.

ART3067 Age of Enlightenment . . . . . 2 cr
This eight week class will focus on art and artists that were directly and indirectly effected by the age of enlightenment. Specific attention will be given to early 17th century thinkers, scientist, philosophers and artist, but will also explore the long arm of its influence on subsequent centuries and contemporary art and thought.

ART3068 Mesopotamia . . . . . 2 cr
This is an Art History class that will cover material from the Stone Age and the build up to Mesopotamia and the cultures and art that flourished in the Fertile Crescent. Its specific aim is to introduce and students to the ideas and concepts of cultures who primarily produced art and artifact from stone and ceramics.

ART3075 Video Art . . . . . 2 cr
(**PQ:** art, design, digital media arts, graphic design, or visual arts education majors/minors or consent of instructor) In this course students will learn to create video art, learning video art production methods while studying the history of video art, current trends, techniques and aesthetic approaches used by contemporary video artists.

ART3076 Installation Art . . . . . 2 cr
This course traces the development of the artistic practice of Installation by examining historical, sociological and economic factors. We will critically analyze work by disparate artists, investigate issues such as the role of the viewer in the work, and further develop our own personal visual language. These foundational activities will inform the development and creation of installations that will be exhibited in the Denler Gallery at the end of the semester.

ART3111 Painting Techniques . . . . . 4 cr
An introductory studio course in acrylic painting that focuses on the visual qualities unique to painting. Basic concepts include designing two-dimensional work, exploring color, and creating texture. The history of painting is integrated with an examination of painting styles.

ART3112 Drawing II. . . . . 4 cr
(**PQ**: ART1011**)** A higher-level, studio-intensive drawing course which explores alternative drawing techniques and materials with the still life and the figure. Specific studies with media include chalk and conte, metalpoint, and transfer drawings. Advanced work in gesture and anatomy studies of the human figure are included. **Note:** This course is designated as repeatable and may be repeated two times for credit after the original taking of the course. See page 31.

ART3125 Book Arts . . . . . 2 cr
(**PQ:** ART1011 and ART1035) This eight-week course will introduce the student to the construction of various book structures and to the powerful integration of image, text and design that is found in Contemporary Book Arts.

ART3126 Papermaking . . . . . 2 cr
(**PQ:** ART1011 and ART1035) This eight week course will introduce the student to properties of paper and to the process of making paper by hand, with an exploration of both Asian and Western styles. The focus of the course will not only be preparing fibers and forming sheets, but will also include applications to other 2D and 3D media.

ART3127 Fibers. . . . . 2 cr
(**PQ:** ART1011 and ART1035) This introductory course explores historical and contemporary approaches to fiber, as well as an examination of significant artists and movement throughout the history of the medium. It will include an overview study of fibers/yarns, surface design and structural design. This course emphasizes a thorough understanding and integration of the design process, structure, materials, and techniques in working with fiber, fabric, and pattern.

ART3162 19th and 20th Century Art History . . . . . 4 cr
(**PQ**: ART1005 or ART1825, and ENG2205 or ENG2825, and ECE passed or consent of instructor**)** A course focusing on the development of art during the 19th and 20th centuries.

ART3245 Ceramic Surface . . . . . 2 cr
(**PQ:** ART2045 or ART2046 or ART2047 or ART2048) This course will primarily focus on the ceramic surface. The course will explore in-depth decorating and printing techniques. The course will also explore glaze formulation and glaze mixing to enhance the student's understanding of the ceramic surface.

ART3265 Art Since 1945 . . . . . 2 cr
(**PQ:** ART1005 or ART1825, and ENG2205 or ENG2825, and ECE passed or consent of instructor) A survey of contemporary fine art since WWII. Emphasis is placed on learning key artists and art movements, as well as understanding their impact on the history of art and the broader culture. A variety of images and films will be discussed.

ART3365 Aesthetics . . . . . 2 cr
(**PQ:** junior standing or consent of instructor) A survey of the history of Aesthetics and the philosophy of art. A variety of current and historical topics in the theory and philosophy of art will be explored through studying the works of important artists and philosophers.

ART4242 Advanced Ceramics. . . . . 4 cr
(**PQ**: ART2045, 2046, 2047, 2048, or 3245) A continuation of ceramics with emphasis placed upon advanced wheel-throwing techniques and handbuilding. The history of ceramics, glaze formulation, and firing processes are incorporated into the course. **Note:** This course is designated as repeatable and may be repeated three times for credit after the original taking of the course. See page 31.

ART4252 Advanced Sculpture . . . . . 4 cr
(**PQ**: ART2251**)** A higher-level, studio-intensive course exploring sculptural expression through a variety of techniques and ideas. The course includes instruction in plaster building and casting, stone and wood carving, and metal casting. The history of sculpture and its current trends is also incorporated into the making process. **Note:** This course is designated as repeatable and may be repeated three times for credit after the original taking of the course. See page 31.

ART4265 Gallery Studies . . . . . 2 cr
(**PQ**: sophomore standing or consent of instructor) A course designed to provide a knowledge of museum history, introduce concepts of museology, and examine current trends in gallery and museum exhibitions.

ART4312 Advanced Painting . . . . . 4 cr
(**PQ**: ART3111**)** An advanced painting course in oil and waterbased media. Emphasis is placed on exploring ideas and concepts integrated with personal expression and critical judgments about art. **Note:** This course is designated as repeatable and may be repeated three times for credit after the original taking of the course. See page 31.

ART4322 Advanced Printmaking. . . . . 4 cr
(**PQ**: ART3026, 3027, 3028, or 3029) A continuation of printmaking with an introduction to and lithography, advanced techniques of printmaking which provide deeper understanding of artistic processes and possibilities of expression. **Note:** This course is designated as repeatable and may be repeated three times after the original taking of the course. See page 31.

ART4855 Senior Seminar in Art . . . . . 4 cr
(**PQ**: ART3162, SPE1075 or SPE1825, and senior standing in art major**)** This capstone course for the art major is designed to address production and content issues particular to each student as he/she prepares for a senior thesis exhibition in the spring semester. A secondary focus includes the development of a portfolio for application to graduate school.

Athletics - Intercollegiate

Note: Courses in this section are designated as repeatable. See page 31.

ATH2000 Intercollegiate Cross–Country–Men . . . . . .0–1 cr
ATH2005 Intercollegiate Cross–Country–Women. . . . . .0–1 cr
ATH2010 Intercollegiate Football–Men. . . . . .0–1 cr
ATH2020 Intercollegiate Golf–Men. . . . . .0–1 cr
ATH2025 Intercollegiate Golf–Women . . . . . .0–1 cr
ATH2030 Intercollegiate Soccer–Men . . . . . .0–1 cr
ATH2035 Intercollegiate Soccer–Women . . . . . .0–1 cr
ATH2045 Intercollegiate Volleyball–Women . . . . . .0–1 cr
ATH2050 Intercollegiate Basketball–Men. . . . . .0–1 cr
ATH2055 Intercollegiate Basketball–Women . . . . . .0–1 cr
ATH2060 Intercollegiate Baseball–Men . . . . . .0–1 cr
ATH2065 Intercollegiate Softball–Women. . . . . .0–1 cr
ATH2070 Intercollegiate Tennis–Men. . . . . .0–1 cr
ATH2075 Intercollegiate Tennis–Women . . . . . .0–1 cr
ATH2080 Intercollegiate Track–Men . . . . . .0–1 cr
ATH2085 Intercollegiate Track–Women . . . . . .0–1 cr

Bible

Note: BIA2115 Principles of Biblical Interpretation (or BIA2825 Honors Principles of Biblical Interpretation; or the equivalent of BIA2115 or BIA2825) is a prerequisite for all BIB-prefix exposition courses numbered 2000 or above.

BIB1001 Old Testament History and Literature#. . . . . 4 cr
A synthetic study of the purpose and message of the Old Testament and how each part of the testament contributes to the whole. All 39 books are examined: their authorship, date, historical setting, message, literary structure, and distinctives. Credit for BIB1001 may be counted toward/for BIB1009. (see Graduate & Continuing Education catalog).

BIB1002 New Testament History and Literature# . . . . . 2 cr
A synthetic study of the purpose and message of the New Testament and how each part of the testament contributes to the whole. All 27 books are examined: their authorship, date, historical setting, message, literary structure, and distinctives. Equivalent to BIB1019 (see Graduate & Continuing Education catalog).

BIB1825 Honors Old Testament History and Literature . . . . . 4 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** A synthetic study of the purpose and message of the Old Testament and of how each part of the testament contributes to the whole. All 39 books are examined: their authorship, date, historical setting, message, literary structure, and distinctives. The honors section of the course involves students in the problems and issues relating to most, if not all, of the books of the Old Testament, seeing the Old Testament as a product of the ancient Near East.

BIB1826 Honors New Testament History and Literature . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** A study of the socio-historical setting, literary genres, and theological message of the New Testament. Students study the process by which the New Testament was established, the relationship of the Old Testament to the New Testament, and critical methods of New Testament scholarship.

BIB2215 Matthew . . . . . 4 cr
An exposition of the Gospel of Matthew, examining the authorship, date, setting, argument, and theology of the book.

BIB2216 Mark#. . . . . 2 cr
An exposition of the Gospel of Mark, examining the authorship, date, setting, argument, and theology of the book.

BIB2217 Luke# . . . . . 4 cr
An exposition of the Gospel of Luke, examining the authorship, date, setting, argument, and theology of the book.

BIB2218 John . . . . . 4 cr
An exposition of the Gospel of John, examining the authorship, date, setting, argument, and theology of the book.

BIB2220 Life of Christ# . . . . . 2 cr
A study of the life and teachings of Jesus as found in the four gospels within their historical context. This course does **not** meet the requirement for BIB2229 (see Graduate & Continuing Education catalog).

BIB2226 Synoptic Gospels . . . . . 4 cr
An expositional study of the composition, authorship, distinctives, messages, and interrelations of Matthew, Mark, and Luke.

BIB2227 Lukan Writings . . . . . 4 cr
A rapid exposition of Luke and Acts. Emphasis is given to each book's history, message, unifying principles, and theology, with particular attention to the composition, authorship, and interrelations of Luke's two volumes.

BIB2228 Johannine Writings . . . . . 4 cr
A rapid exposition of John, 1–2–3 John, and Revelation, examining each book's purpose, structure, unifying principles, theology, and distinctive features.

BIB3215 Romans and Galatians# . . . . . 4 cr
An exposition of two of the Apostle Paul's principal letters with a focus upon the gospel as it relates to the Mosaic Law. Paul's use of the Old Testament takes a prominent place in the study.

BIB3216 1–2 Corinthians. . . . . 4 cr
An expositional study of 1–2 Corinthians, examining the authorship, setting, message, and theology of the books.

BIB3217 Hebrews and General Letters . . . . . 4 cr
A rapid exposition of Hebrews, James, 1–2 Peter, and Jude, studying their purposes, unifying principles, theological distinctives, and uses of the Old Testament.

BIB3218 Revelation. . . . . 4 cr
An exposition of the book of Revelation, studying its authorship, date, setting, literary structure, use of the Old Testament, themes, theology, and contribution to biblical prophecy and the plan of God.

BIB3219 Prison Letters . . . . . 2 cr
An exposition of four New Testament letters written from prison – Ephesians, Philippians, Colossians, and Philemon – with attention to their individual messages, themes, theology, and unity

BIB3221/6214 Gospels . . . . . 2 cr
An exposition of the four gospels which emphasizes the theological message as discovered in the unfolding of the narrative within its historical context.

BIB3223/6216 Pauline Epistles . . . . . 2 cr
An exposition of Paul's letters which emphasizes the historical setting and theological message.

BIB3225/6215 Acts of the Apostles. . . . . 2 cr**
An expositional study of the book of Acts, emphasizing the birth and growth of the Church as the gospel message spread through Asia and Europe. Particular attention is devoted to applying principles gleaned from biblical, historical narrative to contemporary Christianity.

BIB3227 1–2 Thessalonians. . . . . 2 cr**
An exposition of 1–2 Thessalonians, studying their purposes, unifying principles, and theological distinctives.

BIB3228 Pastoral Letters . . . . . 2 cr**
An exposition of 1–2 Timothy and Titus, addressing both doctrinal and practical elements. Special attention is directed to pastoral and church problems and challenges.

BIB3231/6211 Pentateuch. . . . . 4 cr
A rapid exposition of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy, examining the authorship, composition, historical setting, theology, and unity of the Pentateuch. Later understanding of the Pentateuch by Old and New Testament writers is addressed.

BIB3233 Major Prophets . . . . . 3 cr
A rapid exposition of Isaiah, Jeremiah, Lamentations, Ezekiel, and Daniel: the date, historical setting, message, and theology of each book.

BIB3234 Minor Prophets . . . . . 2 cr
A rapid exposition of the twelve Minor Prophets, Hosea through Malachi. Attention is directed to each book's authorship, date, historical setting, message, and theology.

BIB3235 Genesis#. . . . . 4 cr
An expositional examination of Genesis: its structure, historical background, message, and themes. Study of the book's argument and theology addresses topics such as creation, sin, humanity, law, and covenant.

BIB3236 Selected Psalms . . . . . 2 cr
An expositional study of selected types of psalms, with consideration to their poetic forms, figures of speech, theology, interpretive difficulties, and messianic significance.

BIB3237 Isaiah# . . . . . 4 cr
An expositional study of Isaiah: its authorship, historical background, structure, message, and theology. The study draws out Isaiah's prophetic significance, its use by New Testament authors, and its importance for messianic understanding of Jesus.

BIB3238 Daniel#. . . . . 2 cr
An exposition of the book of Daniel, including its authorship, date, historical setting, literary genre, prophetic message, and authenticity

BIB3245 Proverbs and Song of Solomon. . . . . 2 cr
An expositional study of Proverbs and Song of Solomon. Focus is directed to poetic forms, genres, theology, and the practical application of these books..

BIB3246 Old Testament Historical Writings I . . . . . 4 cr**
A rapid exposition of Joshua, Judges, 1–2 Samuel, and 1–2 Kings: their authorship, dates, historical setting, message, and theology. The contribution of Ruth to the period is also studied.

BIB3247 Old Testament Historical Writings II . . . . . 3 cr**
An expositional examination of 1–2 Chronicles, Ezra, and Nehemiah: their messages, events they narrate, methods used in their composition, and theology. The contribution of Esther to the period is also studied.

BIB3825 Honors Topics in Old Testament Exposition . . . . . 2–4 cr
(**PQ**: 3.6 cum GPA or higher, BIA2115 or BIA2825, or consent of instructor) Each of the offerings of this course focuses on an Old Testament book or grouping of books; specifically addresses its more specialized, technical, and problematic issues; and interacts with the work of scholars who have made special contributions to the field of study.

BIB3826 Honors Topics in New Testament Exposition . . . . . 2–4 cr
(**PQ**: 3.6 cum GPA or higher, BIA2115 or BIA2825, or consent of instructor) Each of the offerings of this course focuses on a New Testament book or grouping of books; specifically addresses its more specialized, technical, and problematic issues; and interacts with the work of scholars who have made special contributions to the field of study.

BIB3827 Honors Topics in Old Testament/New Testament Exposition . 2–4 cr
(**PQ**: 3.6 cum GPA or higher, BIA2115 or BIA2825, or consent of instructor**)** Each of the offerings of this course focuses on a topic where the Old and New Testaments interact literarily and theologically (e.g., "Paul & the Law," "The OT in the NT," "Messianic Prophecies"**).** Specialized, technical, and problematic issues are discussed along with the work of scholars who have made special contributions to the field of study**.** BIB3827 topics courses can be used to satisfy either the OT exposition or the NT exposition requirement in general education.

BIB4360 Christian Theology#. . . . . 4 cr
(**PQ**: junior standing or consent of instructor**)** Foundational Christian beliefs studied systematically: the Trinitarian God, God's revelation, His creatures (angels and human beings), God's redemptive work (sin, salvation, and Israel and the Church), and the consummation of all things.

BIB4460 Studies in Biblical Theology*# . . . . . 2 cr
(**PQ**: BIB4360 or BIB4825, and BIA2115 or BIA2825, or consent of instructor**)** An introduction to the nature and method of biblical theology and its unique place within biblical exposition and Christian theology. Enables the student to more effectively preach and teach the Bible within the life and mission of the Church.

BIB4825 Honors Christian Theology. . . . . 4 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above], 3.6 GPA or higher, or consent of instructor) An introduction to Christian beliefs considered from a systematic theological vantage point: the Trinitarian God, God's revelation, God's creatures (angels and human beings), God's redemptive work (sin, salvation, and Israel and the Church), and the consummation of all things. The course methods emphasize reading primary sources and assessing contemporary theological trends.

BIB4835 Seminar in Theological Method*# . . . . . 4 cr
(**PQ**: BIB4360 or BIB4825, and BIB4460, and SPE1075 or SPE1825; or consent of instructor**)** An integration of the historical, methodological, and hermeneutical aspects of theology as well as a survey of its various methods and trends, enabling the student to begin constructing his/her own theological methods for doing systematic theology within the life and mission of the Church.

BIB4836 Seminar in Biblical Worldview . . . . . 2 cr
A summative, synthetic overview of the biblical message and theology. The seminar integrates Christian worldview concepts with students' majors and professional pursuits.

Biblical Arts

BIA1005 Biblical Worldview: Personal Responsibility# . . . . . 2 cr
A study in practical application of Scripture to basic spirituality issues: the gospel, integrity, Christian disciplines, worldview, and Christian character and witness in a secular society. Equivalent to BIA1009 (see Graduate & Continuing Education catalog).

BIA1825 Honors Biblical Worldview: Personal Responsibility . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** A study in practical application of Scripture to basic spirituality issues: the gospel, integrity, Christian disciplines, worldview, and Christian character and witness in a secular society. Class methods include discussion, original investigation, and critical analysis of the issues.

BIA2025 Biblical Worldview: Community & Culture# . . . . . 4 cr
(**PQ:** BIA1005 or BIA1825) A study of the personal involvement of the Christian at home and abroad, including cultural engagement, personal evangelism, and world missions**.** Discusses the biblical lens through which the Christian should understand and relate to community and culture, and examines spiritual preparation for such engagement as well as goals and methodology.

BIA2115 Principles of Biblical Interpretation# . . . . . 2 cr
An introduction to direct, inductive Bible study skills and interpretive principles so that students can develop a method of personal Bible study.

BIA2125 Evangelism and Missions## . . . . . 2 cr
A study in personal evangelism and world missions: the biblical foundation, spiritual preparation, methods, and personal involvement of the Christian at home and abroad. Offered through the Undergraduate Online Learning venue only. This course will not apply to degree requirements if BIA2025 is successfully completed. Equivalent to BIA2129 (see Graduate & Continuing Education catalog).

BIA2825 Honors Principles of Biblical Interpretation . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** This course, which launches students into a hands-on study of Scripture and supplements that practical experience with a discussion and analysis of some of the main issues in biblical interpretation, is designed to enable students to derive spiritual benefit and mental stimulation from their study of Scripture and as a result develop a deeper relationship with our eternal and inexhaustible God. Equivalent to BIA2119 (see Graduate & Continuing Education catalog).

BIA3215 Advanced Biblical Interpretation## . . . . . 2 cr
(**PQ:** ENG2205 or ENG2825, and ECE passed; BIA2115 or BIA2825) A study of the art and science of biblical interpretation, emphasizing the application of critical methods to biblical passages. Offered through the Undergraduate Online Learning venue only.

BIA3235 Second Temple Judaism*# . . . . . 4 cr
A study of Jewish civilization from 538 B.C. to A.D. 135 as an aid to understanding both the formation of the Old Testament and the rise of Christianity. Primary emphasis is on political and social history, with considerable attention to the literary materials of the period.

BIA3236 Biblical Customs and Geography# . . . . . 4 cr
A study of the geography of the Fertile Crescent with special emphasis on Israel and Judah. Selected customs of the ancient Hebrews and surrounding peoples are studied for the light that they shed on Scripture.

BIA4345 Biblical Worldview Capstone: Christian Thought # . . . . . 4 cr
As an integrating study of the rationality of the Christian worldview, this course takes a philosophical approach to Christian apologetics and covers such topics as the existence of God, the reliability of Scripture, miracles, the problem of evil, science and the Bible, and secular ideologies**.** Both biblical and philosophical answers are explored.

BIA4837 Seminar in Exegetical Method . . . . . 4 cr
(**PQ:** ENG2205 or ENG2825, and ECE passed; BIA2115 or BIA2825) A senior-level course in exegetical method for Biblical Studies majors helping them refine their exegetical skills by having them apply those skills to the study of passages from several genre of biblical literature. Students work through the process of exegesis on the assigned passages of Scripture and present the results of their exegesis in exegetical papers.

Biology Directed studies are available. See page 27.

Biology majors and minors must receive a "C-" or better in all prerequisite courses. See page 56.

BIO1007 DNA: The Language of Life . . . . . 4 cr
A survey of the field of genetics for non-biology majors. Students will learn about the structure and function of DNA, how it is passed on from parents to offspring and how it is studied and manipulated for human good. Discussion of the social, legal, and ethical implications of the genetics will be included. Lab activities included.

BIO1009 Concepts of Biology . . . . . 4 cr
(NOT available to students who have received a grade of C- or better in any college-level BIO course. Not intended for Biology majors.) A survey of the field of biology intended to promote an understanding of basic biological principles and how these principles can be applied in everyday life. Topics covered in the course may include cell structure and function, human anatomy and physiology, genetics, biotechnology, microbiology, ecology, bioethics, evolution, and creation. Three lectures and one two-hour lab per week.

BIO1011 Principles of Biology I . . . . . 4 cr
(**PQ:** high school biology or C- or better in BIO1009; high school chemistry is strongly recommended) A foundational course for science and preprofessional majors that includes introductory molecular and cellular structure and function, cellular and species continuity, and introductory physiology. Intended for biochemistry, biology, kinesiology, mathematics education, mathematics/engineering dual degree, physical education, or pre-engineering majors or coaching minors. Three lectures and one two-hour lab per week.

BIO1012 Principles of Biology II. . . . . 4 cr
(**PQ:** BIO1011) A continuation of BIO1011 with an emphasis on organismal biology. This course includes a survey of eukaryotic metazoan animals with a study of anatomical structure and function, taxonomy, reproductive biology and development. Three lectures per week (no laboratory).

BIO1025 Medical Terminology## . . . . . 2 cr
A concise course that provides practice in the definition and use of medical terms. The course includes the analysis of words based on combining forms, prefixes, and suffixes. Intended to fulfill the admission requirement for Occupational Therapy, Physician Assistant, Nursing etc.; also benefits pre-medicine and pre-dentistry students. Offered through the Undergraduate Online Learning venue only.

BIO2113 Principles of Biology III . . . . . 4 cr
(**PQ:** BIO1011) This course is designed to introduce the student to major concepts of the life sciences with an emphasis in botany, environmental science, and ecology. The course includes discussion of basic ecological principle such as the role of natural and sexual selection, discussion on the different theories on the origins of species in the context of a Christian worldview, species interactions, population dynamics, and landscape and community processes. Introduction of plant structure and function, human impact on biodiversity, and Christian environmental stewardship will also be discussed. Three hours of lecture, one two-hour lab per week.

BIO2115 Plant Biology* . . . . . 4 cr
(**PQ**: BIO2113) Overview of plant structure, function, growth, and development, and an introduction to plant genetics and biotechnology. Plant ecology and distribution are integrated into a survey of the plant taxa. Three lectures and one two-hour lab per week.

BIO2116 Animal Biology*. . . . . 4 cr
(**PQ**: BIO1012) Comparative study of structure and function of key animal phyla with an overview of the medical, ecological, and economic impact of animals. Three lectures and one two-hour lab per week.

BIO2825 Honors Topics in Biology* . . . . . .4 cr
(**PQ:** ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor) A study of a specialized aspect of biology curriculum that includes contemplation of the natural world that God created. The laboratory component may consist of an intensive field trip to a specialized ecosystem or habitat.

BIO3015 Field Ornithology . . . . . 4 cr
This summer course will use time in the field (outdoors) to study the biology, ecology, diversity, behavior, and field identification of birds. Laboratory will be integrated into class time. Special attention will be paid to local species of the upper Midwest. Additionally, this course will explore how birds reveal lessons on Christianity and the nature of God.

BIO3145 Microbiology . . . . . 4 cr
(**PQ**: BIO1011 and CHE1021**)** A survey of microorganisms and viruses and their importance to humans in agriculture, medicine, industry, and the environment. Lab work emphasizes culture techniques and the characteristics of microorganisms. Three lectures and one two-hour lab per week.

BIO3157 Human Anatomy. . . . . 4 cr
(**PQ**: BIO1011**)** A study of the structure of the cells, tissues, and organs of the various organ systems of the human body. Included are the integumentary, skeletal, muscular, respiratory, digestive, circulator, nervous, endocrine, excretory, and reproductive systems. Three lectures and one two-hour lab per week.

BIO3158 Human Physiology . . . . . 4 cr
(**PQ**: BIO1011**)** A study of the mechanisms and interrelationships of the following body systems: nervous, endocrine, muscle, circulatory, respiratory, renal, digestive, metabolic, immune, and reproductive. Special emphasis is given to those interactions contributing most to homeostasis. Three lectures and one two-hour lab per week.

BIO3159 Pathophysiology. . . . . 3 cr**
(**PQ**: BIO3158) A focused course that introduces students to the physiology of disease in the human body. The course explores the patterns of disease in the body's major organ systems. Intended to fulfill the admission requirement for Nursing, Physician Assistant, Occupational Therapy, and other health care professionals such as Medicine, Dentistry, Pharmacy, Chiropractic, etc.

BIO3175 Ecology* . . . . . 4 cr
(**PQ**: BIO2113) Basic concepts of ecology of population, communities, and ecosystems, Analysis and synthesis of the interrelatedness of the living and non-living factors in the environment. Three lectures and one two-hour lab per week.

BIO3231 Biochemistry I . . . . . 5 cr
(**PQ**: BIO1011 and CHE3101) Structural and integrated functions of carbohydrates, proteins, lipids, and nucleic acids; biosynthesis, biodegradations, metabolic pathways and bioenergetics; quantitation of chemical equilibria. Three lectures and one three-hour lab per week.

BIO3232 Biochemistry II*. . . . . 4 cr
(**PQ:** BIO3231) Builds upon Biochemistry I to describe biological regulatory processes at a greater breadth and depth; mechanisms by which cells store, replicate, repair, and express genetic information; recombinant DNA technology. Three lectures per week.

BIO3236 Immunology* . . . . . 4 cr
(**PQ**: BIO1011 and CHE3101, BIO3145 is recommended**)** Molecular and cellular bases for humoral immune responses: diversity of antibodies, their interactions with antigens, and their measurement. Study includes cell-mediated immune responses, including histocompatibility systems, natural immunological tolerance and immune suppression. Three lectures per week.

BIO3246 Genetics . . . . . 5 cr
(**PQ**: BIO1011 and CHE3101) A detailed study of molecular genetics and classical Mendelian inheritance. Molecular topics include DNA structure, prokaryotic and eukaryotic gene expression, mutation, recombinant DNA technology, and genomics. Three lectures and one three-hour lab per week.

BIO3276 Field Biology* . . . . . 4 cr
(**PQ**: BIO2113) Exploration of techniques and procedures to design field experiments to further study plant biology, animal biology, and ecological concepts. Two lectures and two two-hour labs per week.

BIO3277 Natural Resources Management . . . . . 4 cr
(**PQ:** BIO2113) A survey of the distribution and management of natural resources with special emphasis on developing critical thinking skills and developing new solutions to problems of resource scarcity. Topics include: energy, water, air, food and biodiversity and other selected components of the lithosphere and hydrosphere. Economics, demographic, religious and political issues are considered as they affect resources. Three lectures and one two-hour lab per week.

BIO3348 Cell Biology. . . . . 5 cr
(**PQ**: BIO1011 and CHE3101) Cell and organelle organization and function; cellular transport and communication; specialized cell formation. Three lectures and one three-hour lab per week.

BIO3835 Career Competencies Seminar . . . . . 1 cr
(**PQ:** minimum of junior standing) Orientation and preparation for an academic internship. To be completed the semester immediately prior to enrolling in the internship course offered by the academic department.

BIO4355 Developmental Biology* . . . . . 4 cr
(**PQ:** BIO1012, and BIO3145, BIO3231, BIO3246, or BIO3348) Vertebrate embryology including morphogenesis, differentiation, and interactive biochemical control mechanisms. Three lectures per week

BIO4359 Biotechnology Lab* . . . . . 2 cr
(**PQ**: BIO3145 or BIO3231 or BIO3246 or BIO3348) Practical experiences in molecular biology including DNA isolation and analysis, gene cloning, Southern Blotting, PCR amplification, agarose gels and PAGE, DNA fingerprinting as well as practical medical laboratory diagnostic techniques. Two two-hour labs per week.

BIO4835 Senior Seminar . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, ECE passed, SPE1075 or SPE1825, and at least junior standing as a biochemistry or biology major**)** A capstone course designed to provide an integration of concepts in the biological sciences, biochemistry, and the health professions with a discussion of the ethics of applied biology and the health sciences. Students submit multiple position papers, a term paper, and deliver an oral PowerPoint presentation.

BIO4841 Research. . . . . 1–2 cr
(**PQ**: completion of at least 24 credits in the biology major) Students work closely with research mentor to learn literature search, proposal preparation for a research project, experimental protocols, data acquisition, statistics, manuscript preparation. Students will sign a document including the University of Northwestern Policy on Original Research Data in order to register for all research courses. Any research which is conducted off campus may require a liability waiver, just as for an internship. **Note:** This course is designated as repeatable and may be repeated for up to 8 total credits. Only 4 credits may be used toward completion of Biology Major credits. See page 31.

BIO4995 Biology Internship . . . . . 1–4 cr
(**PQ**: completion of at least 24 credits in the biology major; BIO3835 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in a biology lab or area related to career choice. **Note:** See page 27 for note regarding internships.

Business

BUS1635 Community Service. . . . . 0 cr
Experience with a service organization serving a cross-cultural or challenged community environment. Forty contact hours required. This requirement must be completed before senior status is granted.

BUS2131 Business Japanese I** . . . . . 4 cr
(**PQ**: JPN1002**)** Intensive study of the Japanese language, specifically pertaining to business operations.

BUS2132 Business Japanese II** . . . . . 4 cr
(**PQ**: JPN1002**)** Continued study of the Japanese language, specifically pertaining to business operations.

BUS2135 Business Communication . . . . . 2 cr
(**PQ**: SPE1075 or SPE1825, and ECE passed**)** Development of skills for writing effective business letters, memos, and reports using a computer system. Presenting business reports orally. Writing letters of application and resumés.

BUS3235 International Business*. . . . . 4 cr
(**PQ**: MKT1085, MGT2271, and ECO2202 [C or better required in all]**)** A survey of the complexities, challenges, and opportunities of engaging in international business, including consideration of entry strategies and MNC operations.

BUS3331 Business Law - Contract and Agency . . . . . 3 cr
(**PQ**: junior standing**)** A study of contracts and sales as the basic laws affecting business transactions. Also, law of principal and agency relationships**.**

BUS3835 Professional Skills Seminar . . . . . 2 cr
(**PQ**: junior or senior standing or consent of instructor) Students study and practice the professional skills necessary to be successful in business, with strong emphasis on written and oral communication. Additionally, a particular focus is on the skills essential to search for and secure an internship and full time employment. Students will develop and enhance their job acquisition skills, including networking, searching and targeting prospective employers, resume development, professional communication, and interview skills. Proficiency in these activities are key for both the internship process and career development. This course should be completed in the semester immediately prior to taking BUS4995, BUS4996, or MIS4997.

BUS4332 Business Law - Partnerships and Corporations* . . . . . 3 cr
(**PQ**: C or better in BUS3331**)** A study of the legal aspects of business relationships pertaining to partnerships and corporations. Law pertaining to negotiable instruments, property, and secured transactions.

BUS4435 Business Ethics . . . . . 4 cr
(**PQ**: ENG2205 or ENG2825, ECE passed, and senior standing, or consent of instructor**)** An understanding of personal and corporate integrity from a biblical perspective and resolving ethical dilemmas is emphasized. A comprehensive case analysis is required.

BUS4995 Internship. . . . . 1–4 cr
(**PQ**: BUS3835 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience related to student's major. Students may enroll for this course at various times as their schedules permit. **Note:** This course is designated as repeatable and may be repeated three times after the original taking of the course. See page 27 for note regarding internships.

BUS4996 International Internship. . . . . 1–6 cr
(**PQ**: BUS3835 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised experience of three to six months' duration in China or another foreign country. **Note:** This course is designated as repeatable and may be repeated three times after the original taking of the course. See page 27 for note regarding internships.

Chemistry

CHE1006 Concepts of Chemistry##. . . . . 4 cr
(**PQ**: One year of high school algebra or two years recommended. NOT available to students who have received a grade of "C" or better in any CHE course**)** A survey of chemistry and its applications, intended to promote understanding and literacy in the sciences in general and especially in the field of chemistry. Topics studied include the scientific method and its relationship to faith and reason; matter and energy; atomic and molecular structure; chemical bonding and intermolecular forces; chemical formulas and equations; water, acids, and bases; oxidation-reduction reactions; and chemistry around the house. Students carry out the experiments at home using a small kit supplied by the campus store and readily available equipment, supplies, and chemicals. This course fulfills the core curriculum science laboratory requirement. Offered through the Undergraduate Online Learning venue only.

CHE1021 Principles of Chemistry I . . . . . 4 cr
(**PQ**: one year of high school chemistry [or C- or better in CHE1006] and two years of high school algebra or MAT1015 [C- or better] or concurrent registration in MAT1015; course is intended for biochemistry, biology, engineering dual degree, kinesiology, mathematics, mathematics education, pre-engineering, and pre-professional majors only, or by consent of instructor) Fundamentals of measurement, the scientific method and its relationship to faith and reason, nuclear and electronic structure of the atom, chemical bonding, thermochemistry, stoichiometry, and types of chemical reactions. The laboratory is integrated with the classroom sessions. Three lectures and one two-hour lab per week.

CHE1022 Principles of Chemistry II . . . . . 4 cr
(**PQ**: C- or better in CHE1021**)** A continuation of CHE1021. Gases, liquids, solids, solutions, solubility, acid-base chemistry, equilibrium, kinetics, thermodynamics, and electrochemistry. The laboratory is integrated with the classroom sessions. Three lectures and one two-hour lab per week.

CHE2111 Organic Chemistry Laboratory I . . . . . 1 cr
(**PQ**: C- or better in CHE1021) Students learn basic separation and purification techniques, including chromatography, recrystallization, distillation, and extraction. Structure determination is learned by spectroscopic techniques. One three-hour lab per week. Offered during the summer session only.

CHE2112 Organic Chemistry Laboratory II . . . . . 1 cr
(**PQ**: C- or better in CHE2111) Students learn the chemical reactivity of different classes of organic compounds by preparing and purifying a variety of compounds with different functional groups. One three-hour lab per week. Offered during the summer session only.

CHE3101 Organic Chemistry I & Lab . . . . . 5 cr
(**PQ**: C- or better in CHE1021) The focus of CHE3101, in one word, is structure. The structures and geometries of carbon-containing molecules, including the topics of isomerism and stereochemistry, are examined in great detail using models and spectroscopic techniques. It is the structure of molecules which enables one to understand chemical reactivity. Types of reactions and mechanisms studied include simple substitution, addition, and elimination. Three lectures and one three-hour lab per week.

CHE3102 Organic Chemistry II & Lab . . . . . 5 cr
(**PQ**: C- or better in CHE3101) While the focus of CHE3101 is structure, the crux of CHE3102 is reactivity. The reactivity of alkenes, alkynes, alcohols, amines, ketones, aldehydes, carboxylic acids, and their derivatives are studied based on their structures. Reactions types studied include electrophilic aromatic substitution, nucleophilic aromatic substitution, nucleophilic addition and substitution at carbonyl groups, and reactions at the alpha carbon of carbonyl compounds. Three lectures and one three-hour lab per week.

CHE3321 Physical Chemistry I* . . . . . 4 cr
(**PQ**: C- or better in CHE1022 and C- or better in MAT2025 or MAT2122) Chemical thermodynamics, physical and chemical equilibria, chemical kinetics, introduction to statistical mechanics.

Children & Family Ministry

Directed studies are available. See page 27.

CFM2205 Foundations of Children & Family Ministry . . . . . 2 cr
(**PQ**: CFD3205, MIN1005, and MIN2105) This course provides each student biblical, philosophical, and theoretical foundations for ministry to children and families. The importance of children learning and growing in the context of their family will be emphasized. Attention is given to the forces at work within and without children that affect their moral and spiritual growth. Priority is given to theological foundations, organization, and administrative concerns for Children and Family Ministry.

CFM3208 Practice of Children and Family Ministry . . . . . 4 cr
(**PQ**: CFM2205 and MIN2216) A study of the establishment, development, and evaluation of children and family ministry. Emphasis will be on practical methods of ministry, leadership, recruitment, and training. Learning experiences and curriculum development will focus on integrating spiritual, cognitive, social, emotional, physical, and creative domains for the emerging development of the child. Emphasis will be placed on helping congregations become communities that support families and nurture faith of the families.

Chinese

CHN1001 Beginning Chinese I+*# . . . . . 4 cr
The first of a two-course sequence. An introduction to the Chinese language and culture. Practice in listening, speaking, reading, and writing. Emphasis on the development of communicative skills; individual expression within structured groups. No previous study of Chinese required. Three 65-minute periods of lecture and one hour of lab per week.

CHN1002 Beginning Chinese II+*. . . . . 4 cr
(**PQ**: CHN1001**)** The second of a two-course sequence. A continuation of the study of Chinese language and culture. Practice in listening, speaking, reading, and writing. Continued emphasis on the development of communicative skills; individual expression within structured groups. Three 65-minute periods of lecture and one hour of lab per week.

CHN2101 Intermediate Chinese I* . . . . . 4 cr
(**PQ**: CHN1002**)** The first of a two-course sequence. This course reviews material and expands skills developed at the introductory level. An emphasis on the development of communicative skills. Class discussions in Chinese on contemporary cultural topics. Three 65-minute periods of lecture and one hour of lab per week.

CHN2102 Intermediate Chinese II* . . . . . 4 cr
(**PQ**: CHN2101**)** The second of a two-course sequence. This course continues the development of speaking, listening, reading and writing skills through the study of advanced grammatical topics and the further acquisition of vocabulary. Class discussions in Chinese on contemporary cultural issues. Three 65-minute periods of lecture and one hour of lab per week.

Communication

COM1005 Introduction to Communication Studies . . . . . 2 cr
An introduction to the various dimensions of human communication and communication theory. Topics covered include interpersonal, intercultural, group, and mediated communication.

COM2007 Introduction to Film* . . . . . 2 cr
An introduction to the history, theory, and aesthetics of motion pictures. Emphasis is on the materials and methods of filmmaking and the criteria for analysis and evaluation of films. The relationships of film to art, literature, historical context, culture, and industry are explored.

COM2107 Communication Theory . . . . . 4 cr
(**PQ**: COM1005**)** A comprehensive examination of the theories of human communication, beginning with a review of the metatheoretical traditions informing communication research and progressing through the wide variety of communication theories developed during the 20th century.

COM2135 Shakespeare and Film . . . . . 4 cr
Course also listed as LIT2135. Shakespeare and Film is a study of a selection of Shakespeare's plays and of films based on or inspired by Shakespeare. The course will include recent and classic film versions and film adaptations of the plays. It will provide an introduction to reading and interpreting the plays and viewing and interpreting the films.

COM3006 Applied Media Aesthetics* . . . . . 2 cr
An exploration of the theories and principles of communicating through the visual media—television, film, print, and multimedia presentations.

COM3105 Gender and Family Communication* . . . . . 4 cr
(**PQ**: COM1005**)** Analysis of marriage and family relationships and how effective communication helps those relationships. The role of gender in relation to communication within families and among family members is also explored. Self-concept, sending and receiving messages, nonverbal messages, decision making, setting and achieving goals, handling conflict, and roles in society are some of the matters to be studied—all in light of the biblical perspective on marriage and family relationships and effective communication.

COM3106 Communication in Groups and Organizations . . . . . 4 cr
(**PQ**: COM1005 and SPE1075 or SPE1825**)** A study of how communication affects the success of organizations and the people in the organizations. Attention is given to leadership, decision making, group process, and discussion techniques involving small task-oriented groups. The student studies different organizational structures and management philosophies, considering the role of communication in each. Projects are required to apply concepts studied.

COM3107 Intercultural Communication. . . . . 4 cr
(**PQ**: COM1005 and COM2107; or ICS Majors) An introduction to the practice of intercultural communication. The course is designed to help students develop competence in their interaction with persons from differing cultures. Topics include understanding and explaining diversity, perception, verbal and nonverbal codes, culture shock, and ethical standards across cultures.

COM3108 Interpersonal Communication . . . . . 2 cr**
(**PQ**: COM1005**)** Understanding and improving interpersonal communication. Theories of interpersonal communication will be explored, and areas of competence in communication behavior will be developed.

COM3115 Argumentation and Debate . . . . . 2 cr
(**PQ:** SPE1075 or SPE1825) This course is designed to provide students with the skills for effectively analyzing arguments in a variety of discursive contexts, including parliamentary-style debate, mock trial, and persuasive speaking applied to business, scientific, political, and religious issues. Argumentation techniques will be examined as a central component of democratic civil society with emphasis on evidence and logical form, effectiveness, and ethics. Through readings, discussion, and participation in debates and mock trials, this course attempts to ground you in the concepts and practice of public civil discourse.

COM3345 Urban Intercultural Communication. . . . . 3 cr
(**PQ**: see prerequisite listing in Urban Studies course description section on pages 199-200) This course emphasizes parallels in learning a language and learning a culture in the urban, cross-cultural context**.** Course assignments and discussions are designed for application in everyday encounters with individual from other cultures within the city.

COM3835 Communication Careers Seminar . . . . . 1 cr
(**PQ**: junior standing**)** This course explores the breadth of career opportunities available for students in the Communication program. It also addresses key issues such as career preparation, graduate education, internships, networking, and developing a "missions mindset" for the future.

COM4105 Mass Media and Society . . . . . 4 cr
(**PQ**: ECE passed and ENG2205 or ENG2825**)** Mass communication and the new media technologies of cyberspace have become central to the psychological, social, and political realities of the human experience. This course examines the processes and cultural factors which shape the form, content, and consequences of communication through the major media, including books, newspapers, magazines, audio recordings, radio, television, film, and new digital technologies.

COM4207 Global Communication and International Relations* . . . . . 4 cr
(**PQ**: COM3107 recommended**)** An examination of communication among national societies and its impact on political and economic institutions. Using a case study format, special attention is given to communication strategies employed in times of conflict and peace.

COM4308 Communication Research Methods . . . . . 4 cr
(**PQ**: MAT2055 or PSY3208 and junior or senior standing**)** A survey and analysis of the most commonly-used methods of social science inquiry relating to the communication discipline. Both qualitative and quantitative methods are examined. Students engage in original research projects.

COM4995 Communication Internship . . . . . 1–3 cr
(**PQ**: Consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in communication. **Note:** See page 27 for note regarding internships.

Computer-Mediated Communication

CMC2241 Beginning Web Design . . . . . 4 cr**
An introduction to beginning web design techniques, including the use of HTML and other current markup languages to create websites. Principles of typography, image formatting, color, and message construction. Students experiment with design principles while creating WWW sites and pages.

CMC2625 Web Design Workshop . . . . . 0–1 cr**
Participation in the development of World Wide Web pages for the university, Internet, and local businesses.

CMC3242 Advanced Web Design . . . . . 4 cr**
(**PQ**: CMC2241**)** An introduction to advanced web design techniques, including the use of XML, Flash, CSS, and scripts for interactive web pages. Students experiment with various graphics and audio file formats. Experience in the use of various GUI tools may also be included.

CMC4345 Computer-Mediated Comm. and Society . . . . . 4 cr**
An investigation of current issues in existing and emerging computer-mediated communication technologies and their potential consequences for society. Topics include protocols, interactivity, synchronicity, linearity, media space, and their effects on various types of communication.

CMC4625 Web Design Workshop . . . . . 0–1 cr**
(**PQ**: CMC2625**)** Advanced experience and practice in the development of World Wide Web pages for the university, Internet, and local businesses.

CMC4995 Computer-Mediated Communication Internship . . . . . 1–3 cr
(**PQ:** consent of instructor and consent of department chairperson**)** Supervised work experience in computer-mediated communication. **Note**: See page 27 for note regarding internships.

Computer Science

COS1075 Principles of Computer Science. . . . . 2 cr
This course provides the student with an introduction to computer hardware, development of computer programs for problem solving, basics of object oriented programming, fundamentals of computer security, and use of computer networks.

COS2115 Computer Software Development . . . . . 2 cr
(**PQ**: COS1075 or MIS1075) This course provides the student with an introduction to programming with a focus on computer science concepts, especially the concept of problem solving. Student will be introduced to the development of computer programs for problem solving, fundamentals of object oriented programming, and developing applications in an integrated development environment.

COS3835 Career Competencies Seminar. . . . . 1 cr
(**PQ**: minimum of junior standing) Orientation and preparation for an academic internship. To be completed the semester immediately prior to enrolling in the internship course offered by the academic department.

COS4845 Senior project. . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, ECE passed, SPE1075 or SPE1825, and senior standing) A capstone experience for computer science majors in their senior year. Each student works on an in-depth, guided project, culminating in both a written report and an oral presentation.

COS4995 Computer Science internship. . . . . 0-4 cr
(**PQ**: COS3835 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in computer science. Note: See page 27 for note regarding internships.

Criminal Justice

CRJ2125 Criminology. . . . . 4 cr
(**PQ**: SOC1035 or SOC2035**)** An examination of the extent and nature of crime in the United States. Attention is given to theories of crime causation and an analysis of the social processes leading to criminal behavior.

CRJ3225 Criminal Justice. . . . . 4 cr
An examination of the philosophies, principles, and social dynamics which have led to the current system of law and justice administration in the United States. Special attention is given to law enforcement, the court system, penal institutions, and community corrections such as probation and parole.

CRJ3226 Corrections . . . . . 4 cr
(**PQ**: CRJ2125 or CRJ3225 [one required but both recommended]**)** An examination of the historical development, theories, and institutions of punishment, rehabilitation, and social control. Special attention is given to jails and prisons, probation and parole, and institutional and community corrections in the United States.

CRJ3228 Deviance. . . . . 4 cr
(**PQ**: CRJ2125 or CRJ3225 [one required but both recommended], ECE passed, ENG2205 or ENG2825, and SPE1075 or SPE1825**)** An examination of the etiology of criminal behavior, with an emphasis on addictions and chemical abuse and how these relate to rehabilitation versus social control. Attention is also given to ways in which social inequality contributes to criminal behavior and its impact on the criminal justice system.

CRJ4325 Juvenile Delinquency . . . . . 2 cr
(**PQ**: CRJ2125 or CRJ3225 [one required but both recommended]) This course examines the extent and nature of juvenile crime in the United States. It includes an overview of the juvenile justice system, the social and institutional contributors to delinquency, the historical foundations of juvenile justice and criminal law as it applies to juveniles. Emphasis is given to crime causation, to the family and to the community in both prevention and treatment of juvenile delinquency.

CRJ4327 Criminal Law . . . . . 3 cr
(**PQ**: CRJ2125 or CRJ3225 [one required but both recommended]) An examination of the sociology of law, definitions of criminal behavior, and defenses to criminal prosecution. Special attention is given to substantive law and to procedural law, such as constitutional issues surrounding arrest through incarceration.

CRJ4335 Police and Community . . . . . 2 cr
(**PQ**: CRJ2125 or CRJ3225 [one required but both recommended]) This course addresses the historical, traditional, and new order. Community policing, cultural and gender diversity, police ethics, mental illness issues, and collaboration with community resources are all stressed as necessary for effective and efficient understanding of the role of law enforcement.

CRJ4425 Juvenile Procedures. . . . . 2 cr
(**PQ**: CRJ4325) This course examines the process and the law of the juvenile justice system in the United States. It includes a brief overview of the causation theories and societal institutions that contribute to the dysfunction of the juvenile delinquent. The main focus is on the legal chronological sequencing of the process, and differentiating the juvenile justice system from the adult justice system. It examines the history of juvenile law to the most recent U.S. Supreme Court Ruling on the death penalty for juveniles. (March 1, 2005) This course also focuses on school violence and the rights of students. It provides an in depth study of the various phases and complex nuances of juvenile law.

CRJ4426 Minnesota Criminal and Traffic Code*. . . . . 4 cr
(**PQ**: CRJ4327) This course is designed to give the student an understanding of the Minnesota Criminal and Traffic Codes. Emphasis is on the criteria established in the MNPOST learning objectives. Constitutional law, case law, state statutes, and agency regulations will be integrated into lectures. Case studies, situational crises, and legal situational dilemmas will be used in small group discussion and other problem solving exercises. The class is structured to help students interpret the law in both general and specific situations, and to translate legal concepts into practical applications.

CRJ4435 Issues in Policing* . . . . . 2 cr
(**PQ**: CRJ4335) This course is designed to bring a critical thinking approach to the current issues in law enforcement. Topics will be added and/or dropped at the discretion of the instructor. Because modern policing issues change rapidly and are often controversial, the focus will be on the "hot issues and trends." The class is an interactive experience with small group activities, role play, student presentations, and guest speakers.

CRJ4995 Criminal Justice Internship. . . . . 1–8 cr
(**PQ**: consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in criminal justice. **Note:** See page 27 for note regarding internships.

Cultures & Civilizations

CUL1005 United States Language and Culture . . . . . 2 cr**
(**PQ**: consent of instructor) Perspectives on the United States—behaviors, language, literature, politics, media, national history, Minnesota history, and current issues—which will help international students gain a deeper understanding of the peoples of the United States in order to live among and interact successfully with them. Limited to international students whose first language is not English.

CUL2805 Topics in Culture and Civilization . . . . . 1–4 cr**
(**PQ**: consent of instructor) In-depth study of the culture and civilization of a designated country or world region. No field visit.

CUL3665 Intergroup Experience . . . . . 1 cr
(**PQ**: ICS3015) Personal participation in different activities with an ethnic or racial group other than your own within the continental United States. Activities may include sports, Bible studies, tutoring, teaching English as a second language, and church activities with children, young people, and adults. Forty-five contact hours required.

Design

DES1031 Introduction to Layout . . . . . 2 cr
A course introducing and refining skills in design software. Practical applications are explored in the areas of page layout, design, and typography. Through a series of structured projects, students gain depth in understanding and using InDesign. Emphasis is placed upon technical proficiency.

DES2111 Introduction to Graphic Design. . . . . 2 cr
(**PQ**: DES1031 or consent of instructor) An introductory overview of the design field with an emphasis on conceptual thinking and problem-solving. Students gain experience in understanding the principles, theories, and skills of design. This course employs the computer as a link between design and technology.

DES2145 Structure and Style . . . . . 4 cr
(**PQ**: ART1035, DES1031, and DES2111) This course introduces students to current technologies that dictate the structure and style of web pages and sites, focusing heavily on HTML and CSS. Lessons may include, but are not limited to, the variety of web browser engines, web standards, markup languages and their syntax, page layout strategies for positioning, structural and presentation semantics, visual composition for the screen, industry-standard page layout software, file transfer protocols, the separation of content from presentation as related to site-wide consistency and the history of hypertext systems as related to the World Wide Web and the Internet.

DES2235 Digital Illustration . . . . . 2 cr
(**PQ**: ART1035, ART1011, DES1031, and DES2111) Digital illustration focuses on the use of digital tools to produce images under the direct manipulation of the artist, usually through a pointing device such as a tablet or a mouse. It is distinguished from computer-generated art, which is produced by a computer using mathematical models created by the artist. It is also distinct from digital manipulation of photographs, in that it is an original construction "from scratch". (Photographic elements may be incorporated into such works, but they are not the primary basis or source for them.)

DES2236 Digital Imaging . . . . . 2 cr
(**PQ**: ART1035, ART1011, DES1031, and DES2111) Digital imaging focuses on the creation of digital images, typically using a camera, scanner or other physical input device to capture from the analog world. Course focuses on workflow, software and hardware, include the processing, compression, storage, printing, and display of such images.

DES3021 Photography . . . . . 2 cr
(**PQ**: student must have a digital single-lens reflex camera**)** Introduction to basic digital camera body, lens functions, exposure and foundational workflow for digital photography, including image editing, file archiving and printing.

DES3069 Design History . . . . . 2 cr
This course provides a survey of the development of graphic and interface design, with particular attention focused on the relationship of design to other major art and cultural movements of the 19th through 21st centuries. These are viewed in the context of political, technological, scientific, and cultural developments that occurred throughout modern history. Architecture, graphic design, industrial design, interior design, interface design, photography, painting, television, film, urban planning, web design, and new technologies all affect each other in fluid and often unpredictable ways. We will observe and compare these relationships with respect to the growth of these disciplines and their roles in society and popular culture.

DES3212 Graphic Design II . . . . . 4 cr
(**PQ**: ART3026, 3027, 3028, or 3029; DES2111, DES2235, and DES2236) An advanced course exploring new ways of combining words and images for effective communication. Students develop design solutions for specific projects by integrating images and text while exploring design history, the dynamics of typography, and print production which are directly applicable to professional practice.

DES3215 Interactive Design . . . . . 4 cr
(**PQ**: DES2235 and DES2236) A study of the process and principles driving web- and time-based projects using Adobe Dreamweaver and Flash applications.

DES3271 Typography . . . . . 2 cr
(**PQ**: DES2235) This course will explore both the history and contemporary practice of typography and type design from a designer's point of view. Emphasis will be placed on investigating the processes followed by noted designers in order to inform and illuminate student's personal work.

DES3322 Advanced Photography . . . . . 4 cr
(**PQ**: DES3021**)** A course designed to refine skills in photography. Emphasis is placed upon advanced photographic composition, studio lighting, and alternative darkroom techniques. **Note:** This course is designated as repeatable and may be repeated three times for credit after the original taking of the course. See page 31.

DES3345 Behavior and Scripting . . . . . 4 cr
(**PQ**: DES2145 and DES3215) This course introduces students to current technologies which dictate the behavior of web technologies, focusing heavily on JavaScript and jQuery. By separating of functionality (the "behavior layer") from a Web page's structure/content and presentation, designers avoid the problems of traditional JavaScript programming (such as browser inconsistencies and lack of scalability).

DES3835 Interactive Seminar. . . . . 4 cr
(**PQ**: DES2145) As the first semester of a year-long capstone experience, the advanced course provides students with sophisticated conversation regarding the professional practices of internet-driven careers, alternative interactive technologies and completion of complex, professional level projects. Emphasis is placed upon personal portfolio development, refinement, and presentation of quality work.

DES4085 Design Theory. . . . . 2 cr
This course provides a strong foundation of theoretical ideas in design spanning the early decades of the 20th century. It opens with influential figures of the avant-garde— Marinetti, Rodchenko, El Lissitzky, Moholy-Nagy—designers who grappled with issues of form and function, striving to overcome past conventions and create new world orders. These designers put crucial tensions into play which form the modernist foundation of the field. Design tenets developed during this period are particularly relevant to designers today (functionalism, white space, hierarchy, the Vorkurs, etc.). Special emphasis is placed on the concept of materiality and the work of these designers within the overall context of modernism.

DES4245 Content Management Systems and Design . . . . . 2 cr
(**PQ**: DES2145) A content management system (CMS) is the Collection of Procedures used to manage work-flow in a collaborative environment. These procedures can be manual or computer-based. The procedures are designed to do the following:

- Allow for a large number of people to contribute to and share stored data
- Control access to data, based on user roles (defining which information users or user groups can view, edit, publish, etc.)
- Aid in easy storage and retrieval of data
- Reduce repetitive duplicate input
- Improve the ease of report writing
- Improve communication between users

In a CMS, data can be defined as nearly anything: documents, movies, pictures, phone numbers, scientific data, and so forth. CMSs are frequently used for storing, controlling, revising, semantically enriching, and publishing documentation. Serving as a central repository, the CMS increases the version level of new updates to an already existing file. Version control is one of the primary advantages of a CMS.

DES4246 Database and Design. . . . . 2 cr
(**PQ**: DES2145) A relational database management system (RDBMS) is a database management system (DBMS) that is based on the relational model as introduced by E. F. Codd. Most popular commercial and open source databases currently in use are based on the relational database model. A short definition of an RDBMS may be a DBMS in which data is stored in the form of tables and the relationship among the data is also stored in the form of tables. Web Designers use these structures to create rich, interactive content on the screen. Understanding the systematics of these technologies is increasingly important for web commerce, social media, mobile devices, and other relational web technologies.

DES4313 Graphic Design III . . . . . 4 cr
(**PQ**: DES3212 and DES3215, and SPE1075 or SPE1825**)** An advanced course designed to provide several research-based professional level projects. Emphasis is placed upon personal portfolio development, refinement, and career preparation.

DES4325 Digital Photography . . . . . 2 cr
(**PQ**: DES2235, DES2236, and DES3021 or consent of instructor**)** An advanced course in photography designed to refine photographic techniques unique to digital camera use, computer manipulation of images, and advanced composition.

DES4372 Advanced Typography . . . . . 2 cr
(**PQ**: DES3271) Building on the content of its prerequisite, this course will frame deeper explorations of a variety of presentations of type. Students will complete portfolio-ready work communicating their ability to work with typographic elements as two- and three-dimensional concepts and artifacts. Presenting type in both static and dynamic formats. The course will also introduce students to a handful of unique design applications.

DES4845 Senior Project in Graphic Design . . . . . 4 cr
(**PQ**: ART1035, DES1031, DES2111, DES2145) As the second semester of a year-long capstone experience, this advanced course provides students with extended studio investigation in faculty-guided research in an area of the student's choosing. This course may be used in substitution of an internship.

DES4846 Senior Project in Interactive Design . . . . . 2 cr
(**PQ**: DES3835) As the second semester of a year-long capstone experience, this advanced course provides students with extended studio investigation in faculty-guided research in an area of the student's choosing. This course may be used in substitution of an internship.

DES4995 Graphic Design Internship . . . . . 4 cr
(**PQ**: DES4313, senior standing, and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) A field-based learning opportunity for professional work experience outside the classroom. Students choose part- or full-time work in an area of specific interest as a link to the professional world of design. Required 160 hours. **Note:** See page 27 for note regarding internships.

DES4996 Interactive Design Internship . . . . . 2 cr
(**PQ:** DES3835, senior standing, and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) A field-based learning opportunity for professional work experience outside the classroom. **Note:** See page 27 for note regarding internships.

Digital Media Arts

DMA1005 Animation History . . . . . 2 cr
A survey of human achievement in the art of animation. This course is designed to focus on animation history, criticism, techniques, aesthetics and introduce a framework for the development of animation during the 20th century and contemporary period.

DMA1105 Animation I . . . . . 4 cr
(**PQ:** ART1011 or consent of instructor) This course is designed for the first year students to introduce the techniques, strategies, and conceptual approaches to animation that utilize the direct animation techniques. Weekly workshops with different techniques will guide students towards a deeper understanding of the various methods of animation and their processes.

DMA2201 Animation II . . . . . 4 cr
(**PQ:** ART1011 or consent of instructor) Exploration of the basic principles of movement for the animator, working with the very basic movements to the complex. This is the foundation course of the Digital Media Arts & Animation program.

DMA3105 Figure and Motion Drawing . . . . . 2 cr
(**PQ**: ART1011) Course content explores human and animal anatomy through gesture studies and finished renderings. Topics include proportion, exaggeration, and perspective.

DMA3106 Photoshop/After Effects . . . . . 4 cr
(**PQ:** DMA1105) This course employs Adobe After Effects digital animation software in the creation and manipulation of digital imagery. Coursework is designed to explore software tools in creating animation with digital compositing that highlights the interrelationship between software, working methods for traditional and digital animation.

DMA3202 Animation III . . . . . 3 cr
(**PQ**: DMA2201) An application-centered course consolidating content knowledge gained in foundational classes by reproducing work within a virtual environment. Stress is placed on modeling and construction methods, rendering management, and integration of tasks within the digital media industry sequence.

DMA3205 CG Production . . . . . 4 cr
(**PQ:** DMA1105 and DMA2201) This course is designed to assist students in creating an animated short. Students will study all aspects of production from conceptualizing, scripting, storyboarding, production, and post-production. Assignments will emphasize shooting style, character development, research, and developing a production

DMA3303 Intermediate 3D Modeling . . . . . 4 cr
(**PQ:** DMA3202) The objective of this course is to expand the knowledge of hard- and soft-bodied surfaces explored in DMA3202. Students will learn good edge-flow and topology for animation and will improve the rendering skills needed to showcase their models. Students will learn best practices for 3D modeling as used in animation, films, print, and elsewhere.

DMA3305 Character Design . . . . . 2 cr
(**PQ:** DMA3105) This course continues material introduced in Figure and Motion Drawing (DMA3105) while concentrating on developing aesthetically appealing characters. Complex designs are developed in conjunction with story, animation, and cinematic concepts.

DMA4303 Advanced Animation. . . . . 4 cr
(**PQ**: DMA3202**)** This course expands the continued study of the principles of motion through the use of computer generated animation. Projects focus on developing sophisticated skills in model building, animation, color, and lighting.

DMA4835 Portfolio Seminar . . . . . 2 cr
(**PQ:** DMA3202) This course continues the study of animation principles with a focus on development of projects suitable for a professional portfolio. Students will develop sophisticated skills in model building, animation, color, and design.

DMA4855 Senior Capstone. . . . . 2 cr
(**PQ**: DMA4835) A seminar-based production course to prepare for the realities of the professional world. This capstone experience is designed to employ all aspects of preparation for a career in digital media animation. The student will create an original animated sequence using the fundamentals of digital media and work within a collaborative team to finalize their demonstration "reel."

DMA4995 Digital Media Arts Internship . . . . . 1–2 cr
(**PQ:** junior or senior standing and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised off-campus work experience in digital media art. **Note:** See page 27 for note regarding internships.

Early Adult Ministry

EAM2205 Foundations of Early Adult Ministry ** . . . . . 2 cr
(**PQ**: MIN1005 and MIN2105) This course gives each student specific biblical, philosophical, and theoretical foundations for ministry to early adults (ages 18 to late 20s). Students will consider early adult development trends, spiritual formation, and cultural and social issues facing today's early adults. An overview of the organization of early adult ministry in the local church or parachurch structures will be provided, to include college and international student ministry.

EAM3208 Practice of Early Adult Ministry ** . . . . . 4 cr
(**PQ**: EAM2205 and MIN2216) A practical understanding of early adult ministry is taught. The course includes a review of early/emerging adult developmental life issues, with attention given to specific ways the congregation [or Christian organization] can minister to early adults. Students are trained to create and lead ministry forums to accomplish the functions of discipleship, fellowship, evangelism, and service for early adults. Special attention is given to the development of a ministry to college/career and international student early adults through a local church or parachurch organization. An applied field experience requires the student to be involved in a local church or parachurch ministry to early adults.

Economics Directed studies are available. See page 27.

ECO2201 Principles of Economics I# . . . . . 4 cr
(**PQ**: sophomore standing or consent of instructor**)** An introduction to macroeconomic concepts including demand, supply, full employment, money, fiscal policy, and monetary policy. Economic history from Adam Smith through communism, socialism, and the expansion of capitalism is also studied. The role of public policy is investigated.

ECO2202 Principles of Economics II. . . . . 4 cr
(**PQ**: C or better in ECO2201**)** An introduction to microeconomic concepts emphasizing marginal analysis, the role of the firm, pure competition, monopolies, and the role of government. Also included are income distribution, investment, labor economics, and a large section of international economics. This course will also include a section of "Personal Financial Responsibility" (PFR).

ECO2211 Introduction to Economics I . . . . . 2 cr
(**PQ**: sophomore standing or consent of instructor**)** An introduction to basic concepts of economics. This course touches on the principle of how society decides to distribute resources to meet the needs and wants of its people. How we value and efficiently utilize natural resources, motivate people, and understand capital allocation and financial markets is covered. In addition, some key terminology is learned (GDP, money supply, unemployment, inflation). The role of private institutions and government in creating an atmosphere that creates well-being for its citizens is discussed. Briefly covers both macroeconomics and microeconomics. Intended for non-business majors.

ECO2212 Introduction to Economics II . . . . . 2 cr
(**PQ**: ECO2211**)** Continued study of economics as begun in ECO2211 and adds the analysis of applications and looks at various public policy recommendations. An introduction to econometrics and data analysis is undertaken and some normative economics discussed. The issues of welfare, income redistribution, public choice, pension reform, and the problem of poverty are approached from an economic viewpoint. Intended for non-business majors.

Education Directed studies are available. See page 27.

EDU2215 Educational Foundations . . . . . 2 cr
(**PQ**: sophomore standing and must be taken concurrently with EDU2215L) Study of the history, philosophy, and sociology of American education; administration and organization of schools; teachers' organizations; teacher roles; rewards and frustrations of teaching; influences on instructional decisions; rights and responsibilities of students and teachers; research on teaching and resources for professional growth. Course is taught with a decision-making perspective which encourages self-reflection about the professional fit with teaching. Pre-student teaching required.

EDU2215L Educational Foundations Lab.. . . . . 0 cr
(**PQ**: Must be taken concurrently with EDU2215) Pre-student teaching field experience consisting of 20 hours in a public school classroom.

EDU3209 Human Relations in a Cross-culturally Diverse World . . . . 4 cr
(**PQ**: admission to a teacher education program or consent of the education department, EDU2215, SPE1075 or SPE1825, BIA1005, and BIA2025. Must be taken concurrently with EDU3209L.) The course is structured with the assumption that pre-service teachers enter the course with a basic understanding of the concepts associated with a solid biblical worldview . The course design further supports pre-service teachers in gaining an understanding of how biblical beliefs apply to the field of education. The structure of the

course is to support deeper and personal biblical growth, and further the understanding of how faith formation influences the application of best practices in the field of teaching. The goal of the course is to provide pre-service teachers with methods for approaching educational topics from a biblical worldview, in ways that contribute to the self-esteem of all persons and to promote positive interpersonal experiences while avoiding dehumanizing biases, discrimination, and prejudices sometimes found in the American educational system. Pre-student teaching field experience required.

EDU3209L Human Relations Lab . . . . . 0 cr
(**PQ**: admission to a teacher education program or consent of the education department, EDU2215, SPE1075 or SPE1825, BIA1005, and BIA2025. Must be taken concurrently with EDU3209.) This lab experience consists of two field experience components that support the learning in EDU3209. Students complete a 20-hour field experience in a diverse school setting. In addition, students complete a 30-hour field experience that includes direct involvement with an ethnic or cultural group other than the student's own within the continental United States. The service opportunities allow students to develop an understanding and respect for cultural differences.

EDU3215 Educational Psychology . . . . . 2 cr
(**PQ**: admission to a teacher education program, EDU2215, and PSY2108**)** A course designed to introduce students to the study of human learning and the influence of human growth and development on the learning process, with emphasis on instructional implications for addressing individual differences, assessing and evaluating learning, and designing instruction.

EDU3216 Instructional Foundations (Grades K–12) . . . . . 3 cr
(**PQ**: admission to a teacher education program or consent of the education department and EDU2215, ENG2205 or ENG2825, and ECE passed. Must be taken concurrently with EDU3301.) A study of the foundations and trends in curriculum development in grades K–12 including: organizational patterns; planning, implementing, and evaluating of daily lessons and integrated units; foundations of instructional methodology; use of technology as an instructional tool; and foundations of teaching reading in the content areas.

EDU3217 School Health and Drug Problems . . . . . 2 cr
(**PQ**: EDU2215 and admission to a teacher education program or consent of the education department**)** A study of the basic principles of health with an emphasis upon safety, personal hygiene, and the use and misuse of chemicals. The approach is from the standpoint of personal prevention, need, and responsibility in transferring these principles and biblical values to the school and community health programs. Mandatory reporting laws related to child abuse and neglect and other health issues are addressed.

EDU3218 Educating Diverse Learners in Grades K–12 . . . . . 2 cr
(**PQ**: admission to a teacher education program or consent of the education department and EDU2215. Must be taken concurrently with EDU3218L.) A foundational course for understanding the complex and diverse learning styles found within the PK–12 system of education. Topics for the course include the nature of learning, the influence of culture on learning, and teaching strategies identified as "best practices." An introduction to populations labeled at-risk, under-achiever, and exceptional comprises a core segment of the course. Historical and contemporary perspectives on special populations within the K–12 system are included, with an introduction to various types of formal and informal classroom assessments that can aid the classroom teacher in the intervention process. Ten hour field experience required.

EDU3218L Educating Diverse Learners in Grades K-12 Lab . . . . . 0 cr
(**PQ**: Must be taken concurrently with EDU3218) This lab experience consists of 10 hours of observation and supervised assistance in a K-12 setting that is designated to meet the needs of students receiving services under IDEA.

EDU3246 Instructional Foundations (Grades PK–8) . . . . . 3 cr
(**PQ**: admission to a teacher education program or consent of the education department, and EDU2215, ENG2205 or ENG2825, and ECE passed. Must be taken concurrently with EDU3301.) A study of the foundations and trends in curriculum development in grades PK–8 including: organizational patterns; planning, implementing, and evaluating of daily lessons and integrated units; foundations of instructional methodology; classroom management and conflict resolution; and use of technology as an instructional tool.

EDU3248 Educating Diverse Learners in Grades PK–8 . . . . . 2 cr
(**PQ**: EDU2215 and admission to a teacher education program or consent of the education department. Must be taken concurrently with EDU3248L.) A foundational course for understanding the complex and diverse learning styles found within the PK–12 system of education with a focus on the PK–8 levels. Topics for the course include the nature of learning, the influence of culture on learning, and teaching strategies identified as "best practices." An introduction to populations labeled at-risk, under-achiever, and exceptional comprises a core segment of the course. Historical and contemporary perspectives on special populations within the PK–8 system are included, with an introduction to various types of formal and informal classroom assessments that can aid the classroom teacher in the intervention process. Ten hour field experience required.

EDU3248L Educating Diverse Learners in Grades PK-8 Lab . . . . . 0 cr
(**PQ**: Must be taken concurrently with EDU3218) This lab experience consists of 10 hours of observation and supervised assistance in a PK-8 setting that is designated to meet the needs of students receiving services under IDEA.

EDU3255 Content Area Reading . . . . . 2 cr
(**PQ**: admission to a teacher education program or consent of the education department) This course is designed to provide secondary education and K-12 education majors with an understanding of how to teach reading with and through content texts. The course introduces candidates to reading processes and instructional strategies that promote fluency, vocabulary development, comprehension of text, and application of critical thinking skills. Candidates will apply course content by planning learning experiences that establish a purpose for reading, utilize appropriate reading strategies, and extend and/or apply knowledge gained from reading.

EDU3301 Instructional Technology I: Foundations of Instructional Technology. . . . . 1 cr
(**PQ**: admission to a teacher education program or consent of the education department. Must be taken concurrently with EDU3216 or EDU3246.) In this course, students will develop knowledge and understanding of concepts related to technology and learning, technology applications of education, the role of continuous development of technology, knowledge, and skills, and the social, ethical, legal, and human issues surrounding the use of information and technology in schools. This course will also provide students with skills and experiences of identifying technology resources for diverse learners, applying instructional media and technology, and using technology resources of assessment to maximize student learning.

EDU3302 Instructional Technology II: Applications of Instructional Technology . . . . . 1 cr
(**PQ**: EDU3301; concurrent registration in a methods course strongly recommended) This course provides students with skills and experiences for identifying and applying technology resources to meet the needs of diverse learners, using a variety of media

and educational technology to enrich learning opportunities; managing technology resources and student learning in technology integrated environments, using appropriate assessment strategies; instruments and technologies to improve instruction and maximize student learning, continuing professional development in technology knowledge and skills; and applying their understanding of the social ethical, legal and human issues regarding technology use in PK-12 classrooms. Students have opportunities to apply and evaluate their understanding of concepts related to technology and learning and reflect on their practices of using technology to enhance teaching and learning.

EDU4355 Middle School Foundations . . . . . 2 cr
(**PQ**: admission to the elementary education major or grades 5-12 education major or approval of the education department, EDU3216 or EDU3246) A study of the research base for and best practices of middle level education. The course examines the philosophical foundations of middle schools, the unique needs of middle level learners, and the interrelated roles of the home, school, and community in the development of young adolescents. Instructional planning skills are developed with special emphasis on the integration of content knowledge with developmentally appropriate instruction.

EDU4415 Education Ethics . . . . . 2 cr
(**PQ**: admission to a teacher education program and BIB4360 or BIB4825**)** A study of legal and ethical issues confronted by teachers within public and private school settings. Emphasis is on the development of decision-making skills which are biblically based and consistent with ethical codes recognized within the profession. A case study approach is used throughout the course.

EDU4835 Seminar in Professional Issues . . . . . 2 cr
(**PQ**: admission to student teaching. To be taken concurrently with student teaching.**)** A study of PK–12 teachers as professionals with an emphasis on the relationship between theory and practice. Topics include the development of effective home-school-community relationships, parent-teacher conferencing, behavior management, conflict resolution, professional development, and job search skills. Students meet weekly to discuss accomplishments, progress, and challenges arising within the student teaching experience. A $300 student teaching fee required.

EDU4905 Student Teaching in Elementary Education . . . . . 5–7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835**)** Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4906 Student Teaching in Elementary Education . . . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4907 Student Teaching in Kindergarten Education. . . . . 5–7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4908 Student Teaching Elementary. . . . . 10 cr
(**PQ:** admission to student teaching; to be taken concurrently with EDU4835). Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4915 Student Teaching in Communication Arts/Literature Education . 5 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4916 Student Teaching in Communication Arts/Literature Education . . 10 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4917 Student Teaching in English as a Second Language Education-Elementary . . . . . 5-10 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4918 Student Teaching in English as a Second Language Education-Secondary . . . . . 5-10 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4925 Student Teaching in Mathematics Education. . . . . 5–7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4926 Student Teaching in Mathematics Education. . . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4935 Student Teaching in Music Education-Vocal and Classroom, Elementary . . . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4936 Student Teaching in Music Education-Vocal and Classroom, Secondary . . . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4937 Student Teaching in Music Education-Instrumental and Classroom, Elementary . . . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4938 Student Teaching in Music Education-Instrumental and Classroom, Secondary . . . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4945 Student Teaching in Physical Education-Elementary . . . 6–7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4946 Student Teaching in Physical Education-Secondary . . . 5–7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4947 Student Teaching in Secondary Health Education . . . . . 5 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4955 Student Teaching in Social Studies Education . . . . . 5 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4956 Student Teaching in Social Studies Education . . . . . 10 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4965 Student Teaching in Visual Arts Education-Elementary . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4966 Student Teaching in Visual Arts Education-Secondary. . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4976 Student Teaching in Early Childhood: Pre-primary . . . . 5–7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4977 Student Teaching in Early Childhood: Elementary K–3 . . . 7 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4986 Student Teaching in World Languages & Cultures: Spanish - Elementary . . . . . 5-10 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

EDU4987 Student Teaching in World Languages & Cultures: Spanish - Secondary . . . . . 5-10 cr
(**PQ**: admission to student teaching; to be taken concurrently with EDU4835) Student teaching as a concentrated teaching experience in preparation for full-time employment.

Education - Child and Family Development

CFD3205 Child Development . . . . . 3-4 cr
(**PQ**: PSY2108 and sophomore standing. Must be taken concurrently with CFD3205L. Early Childhood majors and endorsement candidates must be concurrently enrolled in ECE3206.) An overview of the growth and development of children from birth through age twelve years. Topics covered include: current research and major theories of child development, personality and temperament. Special attention is given to physical, social, emotional, cognitive, and spiritual development. Field experience in conducting observations of children from infancy through twelve years is an integral part of the course. Observations at approved sites are required.

CFD3205L Child Development Lab. . . . . 0 cr
(**PQ**: PSY2108 and sophomore standing. Must be taken concurrently with CFD3205.) Observation in early childhood settings.

CFD3305 Infant/Toddler Development and Observation. . . . . 2 cr
(**PQ**: PSY2108 and CFD3205/3205L. Must be taken concurrently with CFD3305L or ECE3306L. Early Childhood majors must be concurrently enrolled in ECE3306.) An overview of the growth and development of the first three years of life. Attention is given to physical, social, emotional, cognitive, and spiritual development. Field experience in conducting observations and making assessments of children from infancy through the toddler years is an integral part of the course. Observation at approved sites is required.

CFD3305L Infant/Toddler Development and Observation Lab . . . . . 0 cr
(**PQ**: Non-education majors only. PSY2108, CFD3205, and CFD3205L. Must be taken concurrently with CFD3305.) Observation in infant/toddler settings.

CFD3306 Pre-primary Development and Observation . . . . . 2 cr
(**PQ**: PSY2108 and CFD3205/3205L. Must be taken concurrently with CFD3306L or ECE4316L. Early Childhood majors and endorsement candidates must be concurrently enrolled in ECE4316.) An overview of the growth and development of children ages three through five years. Attention is given to physical, social, emotional, cognitive, and spiritual development. Field experience in conducting observations and making assessments of children ages three through five is an integral part of the course. Observation at approved sites is required.

CFD3306L Pre-primary Development and Observation Lab . . . . . 0 cr
(**PQ**: Non-education majors only. PSY2108, CFD3205, and CFD3205L. Must be taken concurrently with CFD3306.) Observation in a pre-primary setting.

CFD3308 Adolescent Development . . . . . 2 cr
(**PQ**: junior standing) A study of the growth and development of adolescents ages twelve through eighteen years. Attention is given to physical, social, emotional, cognitive, and spiritual development. Topics covered include current issues faced by adolescents; peer groups; sexuality; moving toward independence; changes in the dynamics of parent-teen relationships. Observations at approved sites are required.

CFD3309 Facilitating Learning and Development in Young Children . 4 cr
(**PQ**: CFD3205, CFD3205L, PSY2108, and sophomore standing) This course is an in-depth study of the growth and development of children 0-8 years with a focus on the following domains: social and emotional; cognitive and language; and creative and motor. Students learn to identify milestones in development, conduct observations and make assessments of children from infancy through the toddler years; promote children's self assessment, consider the effects of environment in facilitating development and learning, and identify strategies to facilitate development and learning in the social and emotional; cognitive and language; and creative and motor domains

CFD3315 Parent-Child Relationships. . . . . 3 cr
(**PQ**: CFD3205 and junior standing) A study of parent-child relationships across the life span. Topics covered include: current research and theories of parent-child interactions; attachment and bonding, parenting styles, attitudes, and behaviors and their effects on children's development.

Education - Communication Arts/Literature

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

EDE3306 Teaching Media Literacy. . . . . 2 cr
(**PQ**: Admission to a teacher education program) A study of the relationships among the elements of the communication process; effects of the various types of electronic audiovisual media on the communication process; competent participation as a consumer and producer of media communication; and functional, aesthetic, and ethical values of media communication. Particular attention will be paid to the application of these topics to a teacher and to adapting these topics to the middle-school and high-school classroom.

EDE4355 Middle School Methods and the Teaching of Young Adult Literature . . . . . 4 cr
(**PQ**: EDU3216 and admission to either the communication arts/literature Education [grades 5-12] teacher education program or the elementary education major with a communication arts/literature [grades 5-8] endorsement; or consent of the education department) The course provides an introduction to popular and contemporary literature for young adults. Extensive reading of young adult literature, development of instructional techniques to utilize high quality literature throughout the middle school curriculum, and criteria for the selection of literature for the classroom are included. The course also includes a study of the purposes and practices of middle schools with an emphasis on adapting curriculum to the specific needs of middle school learners.

EDE4356 Teaching Language and Communication in Grades 5–8 . . . 2 cr
(**PQ**: EDU3246, SPE1075 or SPE1825, and admission to the elementary education program. Must be taken concurrently with EDE4356L.) A study of the purposes, methods, instructional materials, and evaluation techniques for teaching middle school communication and language usage. Pre-student teaching required.

EDE4356L Teaching Language and Communication Grades 5–8 Lab . 0 cr
(**PQ**: EDU3246, SPE1075 or SPE1825, and admission to communication arts/literature endorsement teacher education program. Must be taken concurrently with EDE4356.) Observation and teaching in a middle school languages arts classroom.

EDE4357 Young Adult Texts . . . . . 2 cr
(**PQ**: Admission to a teacher education program) This course provides an introduction to contemporary literature for young adults. Extensive reading of young adult literature, development of instructional techniques to utilize high quality literature throughout secondary curriculum, and criteria for selecting literature for classroom and personal reading are included.

EDE4366 Teaching Language and Communication in Grades 5–12 . . 4 cr
(**PQ**: EDU3216, SPE1075 or SPE1825, and admission to the communication arts/literature [grades 5–12] teacher education program. Must be taken concurrently with EDE4367 and EDE4367L.) A study of the purposes, methods, instructional materials, and evaluation techniques for teaching communication and language usage in grades 5–12. Pre-student teaching required.

EDE4367 Teaching Secondary Reading and Literature Methods. . . . . 4 cr
(**PQ**: EDU3216, SPE1075 or SPE1825, and admission to the communication arts/literature [grades 5–12] teacher education program. Must be taken concurrently with EDE4366 and EDE4367L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of secondary reading and literature. The course provides theory, modeling, and application of instructional strategies for enhancing students' ability to read various texts and for analyzing literature within middle school and high school classrooms. Pre-student teaching required.

EDE4367L Teaching Secondary Reading and Literature Grades 5–12 Lab . . . . . 0 cr
(**PQ**: EDU3216, SPE1075 or SPE1825, and admission to communication arts/literature education [grades 5–12] teacher education program. Must be taken concurrently with EDE4366 and EDE4367.) Observation and teaching in a grade 5–12 language arts classroom.

Education - Early Childhood

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.
Students enrolling in Early Childhood Education courses requiring field experiences must have clearence from the Minnesota State Department of Human Services Background Study.

ECE2216 Foundations of Early Childhood Education. . . . . 2 cr
(**PQ**: sophomore standing. Must be taken concurrently with ECE2216L.) The first course in the early childhood program sequence. Students study the rationale of the early childhood education teacher education program and explore developmentally appropriate practice (DAP) and its implications for early childhood programs. An introduction to play theory as the center of DAP in early childhood curriculum is also included. Pre-student teaching required.

ECE2216L Foundations of Early Childhood Education Lab. . . . . .0 cr
(**PQ:** must be taken concurrently with ECE2216) Observation in an early childhood setting for a minimum of 20 hours.

ECE3206 Early Childhood Assessment . . . . . 2 cr
(**PQ**: CFD3205 or concurrently enrolled. Early childhood education majors must be concurrently enrolled in CFD3205) A study of assessment and observation strategies for children birth through age eight years. Emphasis is on observational skills, play-based assessment, assessment tools, and intervention strategies. Pre-student teaching is required.

ECE3217 Health, Nutrition, and Safety . . . . . 2 cr
(**PQ:** admission to the early childhood education teacher education program or consent of the education department**)** A study of the basic principles of early childhood health with an emphasis upon safety, nutrition, immunizations, child abuse and neglect, and use and misuse of chemicals as they affect children, families, and staff within birth through grade 3 programs. Students complete First Aid and Child CPR training through this course.

ECE3306 Infant/Toddler Methods . . . . . 4 cr
(PQ: admission to the early childhood education teacher education program; or consent of the education department, PSY2108,

EDU3246, CFD3205, and ECE3206. Must be taken concurrently with CFD3305; and CFD3305L or ECE3306L) A study of developmentally appropriate practice for nurturing the growth and development of infants through toddlers, including the interrelatedness of learning environments, materials, and behavior guidance techniques. Pre-student teaching required.

ECE3306L Infant/Toddler Methods Lab . . . . . 0 cr
(**PQ:** admission to the early childhood education teacher education program; or consent of the education department. PSY2108, EDU3246, CFD3205, and ECE3206. Must be taken concurrently with ECE3306) Observation and teaching in infant/toddler classroom.

ECE4316 Pre-primary Methods . . . . . 4 cr
(PQ: admission to the early childhood or elementary education teacher education program; or consent of the education department, PSY2108, EDU3246; and CFD3205, CFD3205L, ECE3206. Must be taken concurrently with ECE4316L, ECE4835 or ECE4836) A study of the interrelatedness of developmentally appropriate practice, learning environments, materials, and behavior guidance techniques. The study of current curriculum models and how curriculum can be used to enhance play.

ECE4316L Pre-primary Methods Lab . . . . . 0 cr
(**PQ:** admission to the early childhood or elementary education teacher education program; or consent of the education department. PSY2108, EDU3246, ECE4835 or ECE4836, and ECE3206/3206L. Must be taken concurrently with ECE4316) Observation and teaching in a pre-primary (ages 3–5) classroom.

ECE4319 Fine Arts Methods and Strategies (Birth–Grade 3) . . . . . 2 cr
(**PQ:** admission to the early childhood education teacher education program; or consent of the education department, PSY2108, and EDU3246) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of music and visual arts in the Birth to Grade 3 classroom. Pre-student teaching required.

ECE4335 Family-School Relations . . . . . 2 cr
(**PQ**: junior standing, CFD3205, and CFD3205L) Strategies for establishing positive, collaborative, and/or cooperative relationships among families, teachers, and school systems are the core of this course. Topics covered include: the importance of family members to a child's learning; methods of informing the family about the child's school experiences; the varieties of family styles, cultures, communication systems, goals, and choices; strategies for assisting parents with school concerns and parenting issues; and how to make referrals.

ECE4835 Early Childhood Seminar I . . . . . 0-1 cr
(**PQ**: admission to the early childhood education teacher education program and concurrent enrollment in ECE4316 or ECE3306) This course is an opportunity to relate theory to practice; deal with issues arising from field placement experiences, discuss topics applicable to all curricular areas, discuss professionalism in the field of early childhood education, work on professional portfolio development, discuss issues and current trends in early childhood education, and prepare for the Teacher Performance Assessment Early Childhood Education. To be taken concurrently with the enrollment in early childhood core courses and field experiences. This seminar will be taken each semester - fall semester and spring semester. ECE majors at various levels will be involved in Seminar I and Seminar II.

ECE4836 Early Childhood Seminar II. . . . . 0-1 cr
(**PQ**: admission to the early childhood education teacher education program and concurrent enrollment in ECE4316 or ECE3306) This course is an opportunity to relate theory to practice; deal with issues arising from field placement experiences, discuss topics applicable to all curricular areas, discuss professionalism in the field of early childhood education, work on professional portfolio development, discuss issues and current trends in early childhood education, and prepare for the Teacher Performance Assessment Early Childhood Education. To be taken concurrently with the enrollment in early childhood core courses and field experiences. This seminar will be taken each semester, fall semester, and spring semester. ECE majors at various levels will be involved in Seminar I and Seminar II

Education - Elementary

Note: (PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

EEL4307 Language Arts and Literature in the Elementary School . . . 4 cr
(**PQ:** PSY2108, EDU3246, and admission to the early childhood education teacher education program) This course presents language arts and children's literature as an integrated part of an educational program. Extensive reading of children's literature, development of instructional techniques that utilize good quality literature throughout the elementary curriculum, and criteria for the selection of literature for the classroom are included. Understanding the language arts to include reading, writing, listening, speaking, viewing, and visually representing, pre-service teachers will become familiar with comprehensive, scientifically based reading instruction programs, practices, and methods as they apply to reading and writing instruction within the language arts. Pre-service teachers will understand how language arts and children's literature are used to assist children in reading for both efferent and aesthetic purposes in communication arts, as well as in the content areas through selection of quality literature and knowledge of literary text structures, genres, and perspectives. Pre-service teachers will understand the role of oral language, spelling, and writing in supporting the literacy development of all student including English language learners, in the elementary classroom.

EEL4317 Mathematics Methods and Strategies (K–3) . . . . . 2 cr
(**PQ:** Admission to the early childhood education teacher education program; or consent of the education department, PSY2108, and EDU3246. Minimum grade of C in MAT1006. Must be taken concurrently with EEL4318, EEL4319, EEL4835, and EEL4835L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of mathematics at the K–3 level. The course provides theory, modeling, and application of instructional strategies for developing mathematical literacy using developmentally appropriate practice with children in grades K–3. The development of instructional skills to support mathematical reasoning, communication, and problem solving across the curriculum is emphasized**.** Pre-student teaching required.

EEL4318 Science and Social Studies Methods and Strategies (K–3) 2 cr
(**PQ:** Admission to the early childhood education teacher education program; or consent of the education department, PSY2108, and EDU3246. Must be taken concurrently with EEL4317, EEL4319, EEL4835, and EEL4835L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of physical, life, and environmental sciences and social sciences using developmentally appropriate practices with children in grades K–3**.** Pre-student teaching is required.

EEL4319 Physical Education and Health Methods and Strategies (K–3) . . . . . 2 cr
(**PQ:** Admission to the early childhood education teacher education program; or consent of the education department, PSY2108, and EDU3246. Must be taken concurrently with EEL4317, EEL4318, and EEL4835 and EEL4835L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of physical education and health using developmentally appropriate practices with children in grades K–3. Pre-student teaching required.

EEL4325 Curriculum and Instruction in Kindergarten . . . . . 2 cr
(**PQ**: PSY2108, EDU3246, admission to the early childhood education teacher education program or preprimary teacher education endorsement. Must be taken concurrently with EEL4325L and an elementary education methods block**)** A study of the basic principles and practices of different curriculum models within the kindergarten. Strategies for the instruction and assessment of young children are included. Pre-student teaching required.

EEL4325L Curriculum and Instruction in Kindergarten Lab. . . . . 0 cr
(**PQ**: PSY2108, EDU3246, admission to the early childhood education teacher education program or preprimary teacher education endorsement. Must be taken concurrently with EEL4325 and an elementary education methods block.) Observation and teaching in a kindergarten classroom required.

EEL4327 Kindergarten Methods and the Primary Learner . . . . . 2 cr
(**PQ:** Admission to the early childhood or elementary education teacher education program; or consent of the education department, PSY2108, EDU3301, EDU3246. Must be concurrently enrolled in EEL4327L and Elementary Methods Block.) A study of developmentally appropriate practice for nurturing the growth and development of children ages five through nine years including the interrelatedness of learning environments, classroom community, classroom structure, family-school partnerships, and assessment. Strategies for the instruction of different curricular areas are included. Attention is given to the physical, social, emotional, cognitive, and spiritual development of children. Field experience in conducting observations and making assessments of children ages five through nine years is an integral part of the course. Pre-student teaching is required.

EEL4327L Kindergarten Methods and the Primary Learner Lab . . . . . 0 cr
(**PQ:** Admission to the early childhood or elementary education teacher education program; or consent of the education department, PSY2108, EDU3301, EDU3246. Must be concurrently enrolled in EEL4327.) Observation and teaching in a kindergarten classroom required.

EEL4335 Mathematics Methods for Elementary Teachers K–6 . . . . . 3 cr
(**PQ**: PSY2108, EDU3246, admission to a teacher education program and a minimum grade of C in MAT1006. Must be taken concurrently with EEL4336, EEL4337, EEL4338, and EEL4835/4835L or EEL4836/4836L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of elementary mathematics. The course provides theory, modeling, and application of instructional strategies for developing mathematical literacy with elementary learners. The development of instructional skills to support mathematical reasoning, communication, and problem-solving across the mathematics curriculum is emphasized. Pre-student teaching required.

EEL4336 Physical Education and Health Methods for Elementary Teachers K–6 . . . . . 3 cr
(**PQ**: PSY2108, EDU3246, and admission to the elementary education teacher education program. Must be taken concurrently with EEL4335, EEL4337, EEL4338, and EEL4835/4835L or EEL4836/4836L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of elementary physical education and health in grades K–6. The course provides theory, modeling, and application of instructional strategies to support the healthful living and physical development of elementary students. Content related to basic movement education, games, rhythms, sport skills, and decision-making for health are included. Pre-student teaching required.

EEL4337 Social Studies Methods for Elementary Teachers K–6 . . . . 2 cr
(**PQ**: PSY2108, EDU3246, and admission to a teacher education program. Must be taken concurrently with EEL4335, EEL4336, EEL4338, and EEL4835/4835L or EEL4836/4836L.) Study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of social studies in the elementary school. The course provides theory, modeling, and application of instructional strategies to support social studies teaching and learning at the elementary level. The course emphasizes the process skills of gathering, organizing, reporting, and interpreting social studies data. Pre-student teaching required.

EEL4338 Science Methods for Elementary Teachers K–6 . . . . . 3 cr
(**PQ**: PSY2108, EDU3246, and admission to the elementary education teacher education program. Must be taken concurrently with EEL4335, EEL4336, EEL4337, and EEL4835/4835L or EEL4836/4836L.) Study of purposes, methods, instructional materials, and evaluation techniques in teaching physical, life, and environmental sciences at the elementary level. Emphasis on process skills. Pre-student teaching required.

EEL4345 Language Arts Content and Teaching Strategies K–6 . . . . . 4 cr
(**PQ**: PSY2108, EDU3246, and admission to the elementary education teacher education program. Must be taken concurrently with EEL4346, EEL4347, MUE4345, EAR4345, and EEL4835/4835L or EEL4836/4836L.) A course designed to help students understand how and why the elementary language arts (listening, speaking, reading, writing, thinking, acting, etc.) should be naturally integrated into all aspects of the school curriculum. The focus is on language as a tool for communicating, for sharing, for exploring knowledge and ideas, and for self-expression. The course is structured to demonstrate the purposes, methods, instructional resources, and evaluation strategies for teaching the language arts in the elementary classroom. Pre-student teaching required.

EEL4346 Reading Methods and Strategies K–6 . . . . . 4 cr
(**PQ**: PSY2108, EDU3246, and admission to the early childhood or elementary education teacher education program. Must be taken concurrently with EEL4345, EEL4347, MUE4345, EAR4345, and EEL4835/4835L or EEL4836/4836L.) A course which focuses on the components essential to establishing reading programs that foster a love of reading in students and assist them in acquiring the skills essential to becoming lifelong readers. The course will provide theory, modeling, and application for K–6 teachers essential for developing and implementing successful reading instruction. Strategies for monitoring and assessing student performance and application of alternative classroom instructional methods are included. Pre-student teaching required.

EEL4347 Children's Literature K–6 . . . . . 2 cr
(**PQ**: PSY2108, EDU3246, and admission to the early childhood or elementary education teacher education program. Must be taken concurrently with EEL4345, EEL4346, MUE4345, EAR4345, and EEL4835/4835L or EEL4836/4836L.) A course which presents children's literature as an integrated part of an educational program. Extensive reading of children's literature, development of instructional techniques to utilize good quality literature throughout the elementary curriculum, and criteria for the selection of literature for the classroom are included. Emphasis is placed on encouraging

students to appreciate literature and the contributions it can make to the culture. Pre-student teaching required.

EEL4835 Elementary Methods Seminar I . . . . . 0–1 cr
(Must be taken concurrently with EEL4835L and the first semester of enrollment in elementary methods courses and the first 160 hours of pre-student teaching.**)** Opportunity to relate theory to practice, deal with issues arising from field placement experiences, discuss topics applicable to all curricular areas, and work on professional portfolio development.

EEL4835L Elementary Methods Lab I. . . . . 0 cr
(**PQ:** must be taken concurrently with EEL4835 and first methods block) Observation and teaching in an elementary classroom.

EEL4836 Elementary Methods Seminar II . . . . . 0–1 cr
(Must be taken concurrently with EEL4836L and the second semester of enrollment in elementary methods courses and the second 160 hours of pre-student teaching. Opportunity to relate theory to practice, deal with issues arising from field placement experiences, discuss topics applicable to all curricular areas, and work on professional portfolio development.

EEL4836L Elementary Methods Lab II . . . . . 0 cr
(**PQ:** must be taken concurrently with EEL4836 and second elementary methods block) Observation and teaching in an elementary classroom.

Education - English as a Second Language (ESL)

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

EDL4325 Teaching Grammar for ESL . . . . . 2 cr
(**PQ**: ENG3125, LIN2226, ECE passed, and admission to the ESL teacher education program. Must be taken concurrently with EDL4461, EDL4461L, EDL4462, and EDL4462L.) Study of English grammar with emphasis on how to effectively present English grammatical points to ESL students in K–12 school settings.

EDL4326 ESL Curriculum and Assessment. . . . . 2 cr
(**PQ**: ENG3125, ENG3226, and admission to the ESL teacher education program. Must be taken concurrently with EDL4461, EDL4461L, EDL4462, and EDL4462L.) Study and practice of language curriculum development. Study and practice of formal and informal second language assessment techniques to determine appropriate placement and to evaluate the progress of ESL students in K–12 school settings.

EDL4461 ESL K-12 Methods and Materials I . . . . . 4 cr
(**PQ**: ENG3125, ESL3315, LIN2226, admission to the ESL education teacher education program and senior status. Must be taken concurrently with EDL4325, EDL4326, and EDL4461L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of English as a second language in grades K–12. The course provides theory, modeling, and application of instructional strategies for developing English language skills in listening, speaking, and pronunciation. An introduction to ESL curriculum resources for teaching listening, speaking and pronunciation is also included. Pre-student teaching required.

EDL4461L ESL K-12 Methods Lab I . . . . . 0 cr
(**PQ:** admission to the ESL education teacher education program or consent of the education department, and senior status. Must be taken concurrently with EDL4461) Observation and teaching in a secondary ESL classroom.

EDL4462 ESL K–12 Methods and Materials II . . . . . 4 cr
(**PQ**: ENG3125, ESL3315, LIN2226, admission to the ESL education teacher education program and senior status. Must be taken concurrently with EDL4325, EDL4326, and EDL4462L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of English as a second language in grades K–12. The course provides theory, modeling, and application of instructional strategies for developing English language skills in reading and writing. An introduction to ESL curriculum resources for teaching reading and writing is also included. Pre-student teaching required.

EDL4462L ESL K–12 Methods Lab II . . . . . .0 cr
(**PQ:** admission to the ESL teacher education program or consent of the education department, and senior status. Must be taken concurrently with EDL4462) Observation and teaching in an elementary ESL classroom.

Education - Mathematics

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

MAE4355 Mathematics Curriculum and Standards for Middle School (Grades 5–8). . . . . 2 cr
(**PQ**: EDU3216 and admission to the elementary or mathematics education teacher education program) Introduction to the content and instructional strategies used in developing mathematical literacy at the middle school level with emphases on state and national standards, curriculum implementation and adaptation, and learning needs of middle school students. Includes focus on supporting mathematical reasoning, communication, and problem-solving across the middle school curriculum.

MAE4365 Mathematics Curriculum and Standards for High School (Grades 9-12). . . . . 2 cr
(**PQ**: EDU3216 and admission to the mathematics education teacher education program) Introduction to the content and instructional strategies used in developing mathematical literacy at the high school level with emphases on state and national standards, curriculum implementation and adaptation, and learning needs of high school students. Includes focus on supporting mathematical reasoning, communication, and problem-solving across the high school curriculum.

MAE4456 Methods of Teaching Mathematics in the Middle School (Grades 5–8). . . . . 2 cr
(**PQ**: MAE4355 and admission to the elementary or mathematics education teacher education program. Must be taken concurrently with MAE4456L or MAE4467L.) A study of the principles, methods, instructional materials and assessment techniques in the teaching of middle school mathematics. The course provides theory, modeling, and application in instructional strategies for developing mathematical literacy with middle school learners. An introduction to mathematics resources, including technology appropriate for grades 5–8, is included. Pre-student teaching required.

MAE4456L Math Methods Lab (Grades 5–8) . . . . . 0 cr
(**PQ:** admission to the elementary or mathematics [grades 5-8] endorsement education program or consent of the education department. Must be taken concurrently with MAE4456) Observation and teaching in a middle school math classroom.

MAE4467 Methods of Teaching Mathematics in the High School (Grades 9–12) . . . . . 2 cr
(**PQ**: MAE4355, MAE4365, and MAE4456 or concurrent enrollment in MAE4456 and admission to the mathematics education teacher education program. Must be taken concurrently with MAE4467L.) A study of the principles, methods, instructional materials, and assessment techniques in the teaching of high school mathematics. the course provides theory, modeling, and application of instructional strategies for developing mathematical literacy with learners in grades 9–12. An introduction to mathematics resources, including technology appropriate for grades 9–12, is included. Pre-student teaching required.

MAE4467L Math Methods Lab II (Grades 5-12) . . . . . 0 cr
(**PQ:** admission to the mathematics education [grades 5-12] teacher education program or consent of the education department. Must be taken concurrently with MAE4467) Observation and teaching in a secondary math classroom.

Education - Music

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

MUE3270 Instrumental Methods Overview . . . . . 1 cr
(**PQ**: sophomore standing) The course presents essential basic principles and practices of instrumental performance. Emphasis will be more on pedagogy than performance. Students will select one instrument for proficiency performance and have hands-on experience with instruments in each family group.

MUE3601 Music Education Field Experience - Elementary . . . . . 0 cr
(**PQ**: admission to the music teacher education program and completion of or concurrent enrollment in MUE4355 or permission of the education department**)** Supervised school-based field experience in preparation for student teaching.

MUE3602 Music Education Field Experience - Secondary . . . . . 0 cr
(**PQ**: admission to the music teacher education program and completion of or concurrent enrollment in MUE4365 or MUE4379, or permission of the education department**)** Supervised school-based field experience in preparation for student teaching.

MUE4345 Music Methods for Elementary Teachers (Grades K–6) . . . 2 cr
(**PQ**: MUS1075 or MUS1825, and EDU3246 and admission to the elementary education teacher education program. Must be taken concurrently with EEL4345, EEL4346, EEL4347, EAR4345, and EEL4835/4835L or EEL4836/4836L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of elementary music. The course is designed to provide basic skills for teaching classroom music. Instructional methods for teaching individuals and classes are included, as well as skills and strategies for listening, singing, and participation in rhythmic movement. Emphasis is placed on how to play and utilize classroom instruments. Pre-student teaching required.

MUE4355 Elementary and Middle School Music Methods (Grades K–8) . . . . . 4 cr
(**PQ**: admission to the music education program and concurrent registration in MUE3601**)** A practical exposure to elementary and junior high/middle school music through study, observation, and participation. Students become involved as aides and instructors in the classroom. Emphasis is placed on the application of these teaching skills to vocal and general music teaching situations. Pre-student teaching required.

MUE4365 Secondary Choral and General Music Methods . . . . . 3 cr
(**PQ**: admission to the music education program, MUS3206, and concurrent registration in MUE3602 and successful completion of the music department sophomore interview) A course designed to acquaint students with the role of choral/vocal music in secondary education and to provide a foundation for teaching secondary choral music classes. An overview of teaching general music, music theory, and the adolescent changing voice are included.

MUE4375 Woodwind Methods* . . . . . 1 cr
(**PQ**: admission to the music education program or consent of instructor**)** A course designed to assist the student in the development of pedagogical skills and proficiency on woodwind instruments. Application of foundational principles to teaching materials and performance situations is included. Meets two hours per week.

MUE4376 Brass Methods* . . . . . 1 cr
(**PQ**: admission to the music education program or consent of instructor**)** A course designed to assist the student in the development of pedagogical skills and proficiency on brass instruments. Application of foundational principles to teaching materials and performance situations is included. Meets two hours per week.

MUE4377 Percussion Methods* . . . . . 1 cr
(**PQ:** admission to the music education program or consent of instructor) A course designed to assist the student in the development of pedagogical skills and proficiency on percussion instruments. Application of foundational principles to teaching materials and performance situations is included. Meets two hours per week.

MUE4378 String Methods*. . . . . 1 cr
(**PQ**: admission to the music education program or consent of instructor**)** A course designed to assist the student in the development of pedagogical skills and proficiency on stringed instruments. Application of foundational principles to teaching materials and performance situations is included. Meets two hours per week.

MUE4379 Band/Orchestra and General Music Methods . . . . . 3 cr
(**PQ**: admission to the music education program, MUS3246, and concurrent registration in MUE3602**)** A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of instrumental and general classroom music in grades K–12. The course provides a study of essential musical and extra-musical aspects of administering the instrumental music program at all levels. Methods and repertoire for bands and orchestras are included.

MUE4615 Practicum in Music Education. . . . . 1–4 cr**
A senior honors program for the student with exceptional ability. The opportunity is given to culminate the undergraduate program with an internship in the music area of the student's choice. Arrangements must be approved by the major advisor and/or instructor and the Music Education Coordinator.

Education - Physical

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

EPH4345 Methods of Teaching Elementary Physical Education . . . . 2 cr
(**PQ**: EDU3216 and admission to the physical education teacher education program. Must be taken concurrently with EPH4345L.) A course designed to cover the organization, content, and teaching techniques of physical education programs in the elementary school. Pre-student teaching required.

EPH4345L Methods of Elementary Physical Education Lab. . . . . 0 cr
(**PQ**: EDU3216 and admission to the physical education teacher education program. Must be taken concurrently with EPH4345.) Observation and teaching in an elementary physical education classroom.

EPH4355 School Health Education Methods . . . . . 2 cr
(**PQ**: EDU3216 and admission to the physical education teacher education program. Must be taken concurrently with EPH4355L.) A study of the organization and administration of the complete school health program, including healthful school living, health services, and health science instruction. Health problems and their implications for instructional methods and materials for teaching health. Pre-student teaching required.

EPH4355L School Health Methods Lab . . . . . 0 cr
(**PQ**: EDU3216 and admission to the physical education teacher education program. Must be taken concurrently with EPH4355.) Observation and teaching in a secondary health education classroom.

EPH4365 Methods of Teaching Secondary Physical Education. . . . . 2 cr
(**PQ**: EDU3216 and admission to the physical education teacher education program. Must be taken concurrently with EPH4365L.) A course designed to cover advanced teaching techniques of physical education at the secondary (6–12) school level. Includes methods of presentation and state curriculum requirements for secondary physical education. Pre-student teaching required.

EPH4365L Methods of Secondary Physical Education Lab.. . . . . 0 cr
(**PQ:** EDU3216 and admission to the physical education teacher education program. Must be taken concurrently with EPH4365.) Observation and teaching in a secondary physical education classroom.

EPH4375 Adapted Physical Education (Grades K–12) . . . . . 2 cr
(Must be taken concurrently with EPH4375L.) Principles and techniques involved in teaching developmental/adapted physical education in school settings. Pre-student teaching required.

EPH4375L Adapted Physical Education Lab. . . . . 0 cr
(Must be taken concurrently with EPH4375.) Observation and teaching in an adapted physical education setting.

Education - Social Studies

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

SSE3255 National Government for Middle School Teachers . . . . . 2 cr
(**PQ:** admission to teacher education program in elementary education with a middle school social studies endorsement or consent of the education department) An overview of the philosophy and structure of differing types of government with a focus on the United States government. Topics related to understanding the United States government include development of the constitution, the bill of rights and the amendment process, different levels of government (national, state, and local), the three branches of the National Government specifically focusing on the duties of each branch and the checks and balance system that exists to guarantee the shared nature of power. Connections are made to how many state governments mirror the national government. In addition, the course explores political parties and the election process (including the electoral college system) and the importance of civic involvement to the democratic process. Applications to middle school social studies instruction are embedded throughout the course.

SSE4357 Law-Related Education . . . . . 2 cr
(**PQ**: EDU3216 and admission to the elementary or social studies education teacher education program**)** An introduction to the content and instructional strategies used in law-related education. The content focuses on instruction about rules, laws, and the legal system that actively involves secondary school students in preparation for responsible citizenship. Content and strategies that support instruction about legal rights, responsibilities, and the role of the citizen and which require secondary student involvement with these concepts in potential real-life situations is also included.

SSE4458 Methods of Teaching Social Studies I (Grades 5–8) . . . . . 4 cr
(**PQ:** EDU3216 or EDU3246, and admission to the elementary education or social studies teacher education program. Must be taken concurrently with SSE4458L.) A study of the purposes and practices of middle school social studies with an emphasis on adapting curriculum to the specific needs of middle school learners. The course investigates the following topics: the ten themes of social studies and how to incorporate them into instruction; instructional planning and assessment; the theory and practice of classroom management; instructional techniques within the social studies including constructivist theory, questioning, effective reading skills, leading discussions, inquiry, teaching to a diverse group of learners, and cooperative learning; learning styles; creating portfolios; and self-reflection as a means of improving pedagogy. The course also explores the Social Science disciplines and the content and curriculum pertinent to middle school classrooms. Pre-student teaching required.

SSE4458L Methods of Teaching Social Studies I Lab. . . . . 0 cr
(**PQ:** EDU3216 or EDU3246, and admission to the elementary education or social studies teacher education program or consent of the education department. Must be taken concurrently with SSE4458) Observation and teaching in a middle school social studies classroom.

SSE4468 Methods of Teaching Social Studies II (Grades 9–12). . . . 4 cr
(**PQ:** EDU3216, SSE4458, and admission to the social studies education [grades 5–12] teacher education program. Must be taken concurrently with SSE4468L.) A study of the purposes and practices of high school social studies with an emphasis on adapting curriculum to the specific needs of high school learners. The course investigates the following topics: content and curricula of high school social studies areas; the integration of social studies with other subjects; current issues and research in the social studies; the use of technology in the classroom; development of teaching effective reading skills in high school social studies; classroom management; current trends in brain research and the implications for pedagogy; instructional planning; instructing students with special needs; multiple intelligences; leading class and small group discussions; instructional techniques like role playing and simulations; becoming a reflective teacher; and creating portfolio entries. Pre-student teaching required.

SSE4468L Methods of Teaching Social Studies II Lab . . . . . 0 cr
(**PQ:** EDU3216, SSE4458, and admission to the social studies education [grades 5–12] teacher education program or consent of the education department. Must be taken concurrently with SSE4468) Observation and teaching in a high school social studies classroom.

Education - Special

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

SPD2215 Introduction to Special Education . . . . . 2 cr
(**PQ**: sophomore standing and concurrent enrollment in or completion of EDU2215. Must be taken concurrently with SPD2215L.) An overview of the history of special education in America with a focus on how special education is supported by federal, state and local governance. An in-depth look will be given to the cascade of PK–12 educational programs designed to meet the needs of students labeled with special needs. The need for support services within the educational system will be reviewed in relationship to how such services impact the total educational programming for students, families, schools and society. A ten hour field observation placement in special education is required.

SPD2215L Introduction to Special Education Lab . . . . . 0 cr
(**PQ**: sophomore standing and concurrent enrollment in or completion of EDU2215. Must be taken concurrently with SPD2215.) Pre-student teaching field experience consisting of 10 hours in a special education classroom.

SPD3215 Children and Families with Special Needs. . . . . 3 cr
(**PQ**: admission to a teacher education program or consent of the education department. Junior standing and completion of or concurrent registration in SPD2215/2215L) A foundational course for understanding collaborative strategies that teachers can use to support the educational needs of students and families involved with special education services provided under the guidelines of IDEA. Emphasis is on learning how to identify and access multiple levels of resources (family, school and community) in order to facilitate the educational process in a manner that will benefit the student labeled with special needs.

SPD3218 Special Education: Due Process, Trends and Problems . . 2 cr
(**PQ**: admission to a teacher education program or consent of the education department. Completion of or concurrent registration in EDU3218**)** An examination of the legal responsibilities of schools as prescribed by federal and state mandates. Specific issues related to due process for special education under IDEA are addressed. A review of current best practices and policies that impact due process through the use of case studies is presented and students work directly with the IEP process.

SPD4315 Measurement and Assessment in Special Education . . . . 3 cr
(**PQ**: EDU3215 and admission to a teacher education program or consent of the education department**)** A survey of basic concepts and principles of measurement in special education, including factors influencing validity and reliability. Students become acquainted with the administration and interpretation of educational tests used in the special education field.

SPD4415 Behavioral Analysis: Classroom Methods/Interventions for Students Labeled EBD and LD . . . . . 6 cr
(**PQ**: admission to a teacher education program or consent of the education department; SPD2215/2215L, SPD3218, SPD4315, concurrent registration in SPD4415L**)** Multi-frameworks for classroom interventions are used as the foundation for the course. Learners interact with specific models that address classroom interventions specific to meeting the needs of populations receiving support services under the labels of SLD and EBD. Hands-on application will be used to help learners use the interventions effectively. Concurrent registration in SPD4415L is required.

SPD4415L Special Education Field Experience . . . . . 0 cr
(**PQ**: admission to a teacher education program or consent of the education department; SPD2215/2215L, SPD3218, SPD4315 and concurrent registration in SPD4415**)** Students participate in a twenty hour field experience focused on working with students receiving special education services in the areas of EBD and SLD.

SPD4425 Behavioral Analysis: Methods and Interventions (non-classroom) . . . . . 6 cr
(**PQ**: admission to special education minor or consent of the education department; SPD2215/2215L, SPD3218, SPD4315, and concurrently enrolled in SPD4425L) Multi-frameworks for classroom interventions are used as the foundation for the course. Learners interact with specific models that address classroom interventions specific to meeting the needs of populations receiving support services under the labels of special education (traditional and non-traditional). Hands-on application will be used to help learners use the interventions effectively in a setting appropriate to their chosen field.

SPD4425L Special Education Field Experience (non-classroom) . . . 0 cr
(**PQ**: admission to special education minor or consent of the education department; SPD2215/2215L, SPD3218, SPD4315, and concurrently enrolled in SPD4425) Students participate in a minimum of 30 hours of field experience focused on working with students receiving special education services in the area of special education (e.g., LD, EBD, and other categories).

Education - Visual Arts

Note: PQ for the following upper-level (3000–4999) Education courses include admission to a teacher education program.

EAR4345 Art Methods for Elementary Teachers . . . . . 2 cr
(**PQ**: ART1005 or ART1825, EDU3216 or EDU3246, and admission to the elementary or visual arts education teacher education program. Elementary education majors must be concurrently enrolled in EEL4345, EEL4346, EEL4347, MUE4345, and EEL4835/4835L or EEL4836/4836L. Visual Arts majors must be concurrently enrolled in EAR4345L.) A basic course in art education with emphasis on a comprehensive approach to practices and appreciation of art experiences for elementary school children. Pre-student teaching required.

EAR4345L Art Methods for Elementary Teachers Lab . . . . . 0 cr
(**PQ**: ART1005 or ART1825, EDU3216, and admission to visual arts education teacher education program. Must be taken concurrently with EAR4345.) Observation and teaching in an elementary visual arts classroom.

EAR4465 Art Methods for Secondary Art Teachers. . . . . 2 cr
(PQ: senior status, EAR4345/4345L, and admission to the visual arts education teacher education program. Must be taken concurrently with EAR4465L.) An advanced course in theories and practice for art instruction with emphasis on curriculum development for middle school and high school art students. Pre-student teaching required.

EAR4465L Art Methods for Secondary Art Teachers Lab. . . . . 0 cr
(PQ: senior status,EAR4345/4345L, and admission to the visual arts education teacher education program. Must be taken concurrently with EAR4465.) Observation and teaching in a secondary visual arts classroom.

Education - World Language

WLE4415 Methods and Materials for Language Teaching. . . . . 4 cr
(PQ: ENG2227, SPA3201, 3202, senior standing, and admission to the Spanish education program. Must be taken concurrently with WLE4415L.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of world languages. The course provides theory, modeling, and application of instructional strategies for developing language skills.

WLE4415L Methods and Materials for Language Teaching Lab. . . . . 0 cr
(PQ: senior standing, and admission to the Spanish education program. Must be taken concurrently with WLE4415.) Observation and teaching in a K-12 Spanish classroom.

WLE4416 Methods and Materials for ESL/World Language. . . . . 1 cr
(PQ: senior standing and admission to teacher education programs in ESL Education and World Language Education. Must be taken concurrently with EDL4461, EDL4461L, and EDL4462.) A study of the purposes, methods, instructional materials, and evaluation techniques in the teaching of world languages that is designed for the teacher candidate completing dual licensure preparation in ESL and world language teaching. the course provides theory, modeling, and application of instructional strategies specific to the world language.

Electronic Media Communication Directed studies are available. See page 27.

Note: EMC1625, EMC2625-2627, EMC3625, and EMC4625-4627 are designated as repeatable. See page 31.

EMC1012 Introduction to Audio Production . . . . . .3 cr
This course introduces students to the world of Audio Production. Students will examine the history, theory, and practice of audio production plus investigate the unique properties of the medium. In addition to providing extensive hands-on experience through production exercises and projects, the course places considerable emphasis on aesthetic analysis of audio products through a series of "critical listening" exercises. The concept of sound design for radio, TV, film, and animation is applied to the various productions. Students will see how the power of sound can influence audiences and shape their mood and emotion.

EMC1013 Introduction to Video Production . . . . . .4 cr
This course introduces students to the world of video production. Students will examine the history, theory, and practice of video production plus investigate the unique properties of the medium. In addition to providing extensive hands-on experience through production exercises and projects, the course places considerable emphasis on aesthetic analysis of video products through a series of "critical viewing" exercises.

EMC1016 Story Structure. . . . . 4 cr
An examination of communication in the electronic media through the analysis and development of script structure and narrative story elements. Subjects include storyboarding, acts, scenes, premises, plots, characters, action, motifs, etc. Students write critical analyses of professional scripts and productions and author their own treatments.

EMC1625 Introduction to Radio Workshop . . . . . 0–1 cr
An introduction to radio station operation through experience with student radio WVOE-FM. **Note:** This course is designated as repeatable. See page 31.

EMC2016 Announcing . . . . . 2 cr
The principles of announcing, including pronunciation, reading, and interpretation of continuity, are explored. Style development and practice are significant elements of this course.

EMC2036 Studio Operations* . . . . . 3 cr
An overview of multi-camera studio production techniques. Students learn how to produce, direct, run graphics, operate camera, supervise scripts, engineer audio, and manage personnel in a studio production.

EMC2115 Broadcast Tech . . . . . 2 cr
(**PQ**: EMC1012, EMC1013, or consent of instructor**)** An introduction to the technical equipment used in television and radio broadcasting. Students will learn the basic electronic components of a television and radio facility, how to troubleshoot problems with equipment, set up a studio for broadcast, clean and maintain audio and video equipment, and trace the signal flow through studio equipment.

EMC2625 Radio Workshop. . . . . 0–1 cr
(**PQ**: EMC1625) Laboratory experience in radio through the student radio station WVOE-FM. Students choose from various radio departments, including programming, music, community outreach, technical support, news/sports, and production. **Note:** This course is designated as repeatable. See page 31.

EMC2626 Northwestern Productions. . . . . 0–1 cr
This course provides students with hands-on experience and training in writing, directing, producing, and editing different types of video productions. Students will be working in crews (teams) in bringing a project from conception to completion. **Note:** This course is designated as repeatable. See page 31.

EMC2627 Northwestern Live (7). . . . . 0–1 cr
Laboratory experience in the production of television news. Northwestern Live (7) is a news program produced for distribution over the local cable television system. Students are involved in all aspects of the production. **Note:** This course is designated as repeatable. See page 31.

EMC3115 Screenwriting . . . . . 4 cr
(PQ: EMC1016) A study of the distinctive characteristics of scripts written for radio, television, and film. Special attention will be given to the three-act structure, character delineation and motivation,

conflict development and pacing, dialogue and subtext, and unifying message. Students gain extensive experience through writing a treatment for a short film or television screenplay.

EMC3116 Principles of Programming* . . . . . 2 cr
A study of the programming structure of broadcasting stations, networks, cable and satellite systems, program producers, and syndicators. Development of programming from conception to completion is studied.

EMC3117 Business of Media Management* . . . . . 4 cr
A synthesis of Electronic Media Communication courses relating to an analysis of each department within an electronic media organization. The study of organizational structure, function, and administration of each department and the organization as a whole. Study of governmental and non-governmental regulations relating to the operation of the electronic media.

EMC3118 History of Electronic Media . . . . . 4 cr**
Selected topics from the history of the development of radio and television throughout the world. With a special focus on American electronic media, the course examines the major program developments, industry practice, innovative techniques, significant leaders, regulatory changes, and impact on present electronic media.

EMC3125 Advanced Audio Production* . . . . . 4 cr
(**PQ**: EMC1012**)** Advanced instruction and practice of audio program production techniques to better develop technical skills in sound design.

EMC3126 Radio Production Strategies . . . . . 3 cr
An examination of communication techniques used to create effective advertising, station imaging, and other radio production elements. The course demonstrates specific production equipment techniques unique to radio and provides practical experience in producing radio commercials, promos, documentaries, and interviews. Students will receive extensive experience with Vox Pro and other digital editing software.

EMC3135 Single Camera Production . . . . . 3 cr
(**PQ**: EMC1013 and EMC3115) An intensive course in post-production techniques applied in Final Cut Pro. Editing theory and practice are integrated components of this course that broadly covers four areas: Editing aesthetics, Editing techniques, compositing and effects, and finishing techniques.

EMC3137 Post-Production . . . . . 4 cr
(**PQ:** EMC1013 or consent of instructor) An intensive course in post-production techniques applied in Final Cut Pro. Editing theory and practice are integrated components of this course that broadly covers four areas: Editing aesthetics, Editing techniques, compositing and effects, and finishing techniques.

EMC3225 Radio News . . . . . 3 cr
(**PQ**: JOU2061 or in same semester) Instruction and experience in radio news production, including advanced reporting, researching, writing, and interviewing techniques. Students produce, write, and anchor news program for broadcast or student radio.

EMC3235 Television News . . . . . 3 cr
(**PQ**: JOU2061 or in same semester) Instruction and experience in television news production, including advanced reporting, researching, writing, and interviewing techniques.

EMC3625 Radio Workshop . . . . . 0–1 cr
(**PQ**: EMC2625 and Junior standing) Laboratory experience in radio through the student radio station WVOE-FM. Students assist in management of various radio departments, including programming, music, community outreach, technical support, news/sports, and production. **Note:** This course is designated as repeatable. See page 31.

EMC4625 Radio Workshop . . . . . 0–1 cr
(**PQ**: EMC2625; open to seniors and station executive staff only) Advanced laboratory experience in radio station management through the student radio station WVOE-FM. Students serve as WVOE executive staff. **Note:** This course is designated as repeatable. See page 31.

EMC4626 Northwestern Productions . . . . . 0–1 cr
(**PQ**: EMC2626**)** This course provides advanced students with hands-on experience and training in writing, directing, producing, and editing different types of video productions. Students will be helping to lead crews in bringing a project from conception to completion. **Note:** This course is designated as repeatable. See page 31.

EMC4627 Northwestern Live (7) . . . . . 0–1 cr
(**PQ**: EMC2627**)** Advanced laboratory experience in the production of television news. The Northwestern Live (7) is a news program produced for distribution over the local cable television system. Students are involved in all aspects of the production. **Note:** This course is designated as repeatable. See page 31.

EMC4845 Senior Project . . . . . 3 cr
(**PQ**: senior standing**)** A capstone experience for Electronic Media Communication students in their senior year. An original, individual project is planned and completed during the semester.

EMC4995 Electronic Media Communication Internship . . . . . 1–3 cr
(**PQ**: consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in broadcasting. **Note:** See page 27 for note regarding internships.

Engineering

EGR1005 Introduction to Engineering . . . . . 4 cr
An introduction to the engineering design process including philosophy, definition of the problem, analysis, formulating solutions, and specification of a final solution. Introduction to CAD. Some emphasis on the importance of good oral and written communication and teamwork.

EGR2235 C/C++ Programming Language for Science and Engineering . . . . . 4 cr
(**PQ**: C or better in MAT2121) Programming course for scientists, engineers, and mathematicians. C and C++ programming constructs, object-oriented programming, the software development process, and fundamental numerical techniques. Scientific programming exercises and examples.

EGR2316 Statics and Dynamics* . . . . . 4 cr
(**PQ**: C or better in PHY1201) Force and moment vectors; resultants. Principles of statics. Applications to simple trusses, frames, and machines. Distributed loads. Properties of areas. Laws of friction. Review of particle dynamics. Mechanical systems and rigid-body dynamics.

Kinematics and dynamics of plane systems. Energy and momentum of 2-D bodies and systems.

EGR2325 Introduction to Electronics and Electrical Circuits*. . . . . 3 cr
(**PQ**: C or better in PHY1202 and concurrent registration in EGR2326) Physical principles underlying modeling of circuit elements. Two- and three-terminal resistive elements, Kirchhoff's laws. Independent and dependent sources, opamps. Small signal models for BJT and FET, elementary amplifiers. Simple resistive circuits. Linearity in circuits. First- and second-order circuits. Circuits in sinusoidal steady state. Analysis of circuits with PSpice software. Three lectures per week.

EGR2326 Electronics and Electrical Circuits Laboratory* . . . . . 1 cr
(**PQ:** C or better in PHY1202 and concurrent registration in EGR2325) Experiments with circuits using resistors, diodes, transistors, and operational amplifiers. Familiarization with basic measurement tools and equipment. One two-hour lab per week.

EGR2801 Research . . . . . 1-2 cr
(**PQ:** consent of instructor) Students identify a problem, conduct a literature search, write a proposal outlining the research to be conducted, and then carry out the research project. Students prepare a written report and/or an oral summary of their work. **Note:** This course is designated as repeatable and may be repeated eight times for credit after the original taking of the course. See page 31.

EGR3175 Materials Science and Engineering* . . . . . 4 cr
(**PQ:** C or better required in both CHE1021 and PHY1201) Students learn the structures and physical properties of engineering materials, including metals, ceramics, polymers, semiconductors, and composites, by applying knowledge of electronic structure of atoms and chemical bonding theories (molecular, ionic, and metallic). Mechanisms and characteristics of strengthening and deformation are explored.

EGR3265 Mechanics of Materials* . . . . . 4 cr
(**PQ:** C or better in EGR2316) Basic classical concepts of structural analysis, including external reactions, internal forces, and deformations of two- and three-dimensional statically determinate and indeterminate structures.

EGR3311 Thermodynamics. . . . . 4 cr
(**PQ**: C or better in MAT2121) A study of the first and second laws of thermodynamics; basic energy concepts; the properties of liquids and vapors including enthalpy and entropy. Analysis of power and refrigeration cycles. Introduction to gas mixtures, chemical reactions, and chemical and phase equilibrium.

EGR3312 Fluid Mechanics . . . . . 4 cr
(**PQ**: C or better in EGR3311) Introduction and fundamentals of fluid properties, fluid statics, control volume and differential analysis for continuity, momentum, and energy equations. Bernoulli equation and potential flow. Laminar and turbulent internal and external flows. Dimensional analysis and similitude. Boundary layers, lift, and drag.

EGR4995 Engineering Internship . . . . . 1–4 cr
(**PQ**: consent of instructor) Supervised work experience in engineering. **Note:** This course is designated as repeatable and may be repeated eight times for credit after the original taking of the course. See page 27 for note regarding internships.

English

Directed studies are available. See page 27.

Note: The abbreviation "ECE" appearing in the prerequisites of certain English, Linguistics, Literature, and ESL courses refers to the Editing Competency Examination taken at the end of ENG1105, ENG1825, and LAN1105. Transfer students must take the exam in the ALPHA Center.

See page 41 for SAT equivalents.

ENG0009 English Lab#. . . . . 2 cr
(Required of students with ACT English or ACT English/Writing score of 18 or below [SAT Writing score of 440 or below] or no ACT or SAT score) An introduction to college-level writing, usage, and punctuation skills, including an emphasis on focused writing and organizational strategies. Credits do not apply to degree requirements.

ENG0109 English Lab. . . . . 2 cr
(Required of Education majors who need to demonstrate English proficiency for admittance to a teacher education program; others may take course with consent of instructor**)** A supplement to college-level writing, usage, and punctuation skills, including an emphasis on focused writing and organizational strategies. Credits do not apply to degree requirements.

ENG1105 Composition# . . . . . 4 cr
(**PQ**: ACT English or ACT English/Writing score of 19 or above [SAT Writing score of 450 or above] or ENG0009/LAN0009 passed) A writing course designed to prepare students for college-level thinking and writing. Emphasis will be placed on the writing process, including editing skills. Equivalent to ENG1109 (see Graduate & Continuing Education catalog).

ENG1825 Honors Composition . . . . . 4 cr
(**PQ**: ACT English or ACT English/Writing score of 27 or above [SAT Writing score of 610 or above], or consent of instructor; taken in place of ENG1105**)** A writing course for students who have demonstrated special proficiency in language use and reading skills. Through individual and collaborative assignments, students will practice their critical reading and thinking skills, study rhetoric by analyzing argumentation, and write essays in multiple genres.

ENG2205 Critical Thinking and Writing#. . . . . 2 cr
(**PQ**: ENG1105 or ENG1825, ECE passed, or consent of department chairperson**)** A writing course designed to improve students' skills in source analysis, critical thinking, and argumentation as they create a research paper. Students will develop skills in research by using reference materials, journals, and databases related to their disciplines. Must be taken before completion of 60 graduation credits. Equivalent to ENG2209 (see Graduate & Continuing Education catalog).

ENG2215 Writer's Style . . . . . 2 cr
(**PQ**: ENG1105 or ENG1825, ECE passed, and ENG2205 or ENG2825, or consent of instructor**)** A writing course that explores a variety of writing nuances, genres, and techniques. Students write several non-fiction texts.

ENG2216 Writing of Poetry. . . . . 2 cr
(**PQ**: ENG1105 or ENG1825, ECE passed, and sophomore standing**)** A study of prosody, the techniques of poetry writing, and contemporary poets with an emphasis on creating original poetry in a workshop format.

ENG2217 Writing of Fiction . . . . . 2 cr
(**PQ**: ENG1105 or ENG1825, ECE passed, and sophomore standing**)** A study of the techniques of fiction writing and contemporary fiction writers with an emphasis on creating original short stories in a workshop format.

ENG2235 Editing and Proofreading* . . . . . **2 cr**
(**PQ:** ECE passed, ENG2205 or ENG2825, or concurrently enrolled) This course introduces students to all levels of the literary editing process - acquisition, substantive editing, developmental editing, copyediting, and proofreading. Students will read and reference relevant texts on editing and will practice their editorial skills on a variety of sample texts.

ENG2256 Advanced Writing of Poetry* . . . . . **2 cr**
(**PQ:** ENG2216) A course in which students continue to develop their writing skills in poetry through the reading of contemporary poetry, the study of poetic technique, and the practice of writing poetry. Emphasis will be placed on deepening students' understanding of the poetic craft, engaging in a workshop format, and examining the spiritual aspect of poetry.

ENG2257 Advanced Writing of Fiction* . . . . . **2 cr**
(**PQ:** ENG2217) A course in which students continue to develop their writing skills in fiction through the creation of original short stories. Emphasis will be placed on deepening students' use of the tools of fiction, good writing technique, critique, and learning from established fiction writers.

ENG2825 Honors Critical Thinking and Writing . . . . . **2 cr**
(**PQ**: ENG1105 or ENG1825, ECE passed, and ACT English or ACT English/Writing score of 27 or above [SAT Writing score of 610 or above], or consent of instructor; taken in place of ENG2205) A writing course for students who have demonstrated special proficiency in language use and reading skills. The course is designed to improve students' skills in source analysis, critical thinking, and argumentation as they create a research paper. Through individual and collaborative assignments, students will develop skills in research by using reference materials, journals, and databases related to their disciplines**.** This course must be taken before a student completes 60 graduation credits.

ENG3120 English Grammar: Syntax. . . . . **3 cr**
(**PQ:** ENG1105 or ENG1825, ECE passed, and Communication Arts /Literature Education [CALE] major, CALE Endorsement, or CALE Emphasis) A course in analyzing the primary structures of English sentences. Some applications of syntactical analysis will be made to writing, reading, and teaching.

ENG3125 Advanced English Grammar: Syntax . . . . . **4 cr**
(**PQ**: ENG1105 or ENG1825, and ECE passed) A course in analyzing the structures of English sentences in all their various forms. The course includes theories of grammar and applications of syntactical analysis to writing, reading, and teaching.

ENG3210 Christianity and Writing* . . . . . **2 cr**
(**PQ**: ECE passed and one of the following:ENG2215, ENG2216 or ENG2217, or consent of instructor**)** A writing course designed to give students practical and theoretical insight into how writing and the arts integrate with Christian faith. Students will produce creative, faith-oriented texts and read faith-based literature by established writers.

ENG3219 Autobiographical Writing* . . . . . **2 cr**
(**PQ**: ECE passed and ENG2215 or ENG2217, or consent of instructor**)** Development of students' writing skills centered on personal histories. Emphasis will be placed on writing technique and critique, heightened self-awareness, and the importance of memoir in literature and life.

ENG3245 Writing for Magazines* . . . . . **2 cr**
(**PQ**: ECE passed, ENG2205 or ENG2825, and ENG2215 or JOU2061, or consent of instructor) A writing course designed to give students practical knowledge regarding the magazine publishing process and the magazine writing industry. Emphasis will be placed on the writing of audience-driven articles for potential publication.

ENG3246 Writing for Organizations. . . . . **2 cr**
(**PQ**: ECE passed, ENG2205 or ENG2825) Principles and forms of professional writing within organizations, including procedures, policies, reports, proposals, electronic media, brochures, newsletters, and professional presentations.

ENG3247 Technical Writing . . . . . **2 cr**
(**PQ**: ECE passed, ENG2205 or ENG2825) Principles and forms of technical writing, including writing technical instructions, technical descriptions, and technical reports.

ENG3248 Grant Writing* . . . . . **2 cr**
(**PQ:** ECE passed, ENG2205 or ENG2825, or consent of instructor) A course designed to give students practical and technical experience in creating grant proposals on behalf of nonprofit organizations. Students will work with an organization of their choice to gather information that will lead to the development of key components of a grant proposal. With additional instruction in how to tailor a proposal to a specific funding audience, students will adapt their existing text to meet the focus areas of a selected funder.

ENG3249 Social Media Marketing* . . . . . **2 cr**
(PQ: ECE passed, ENG2205 or ENG2825, or consent of instructor) A writing course exploring use of social media to effectively market products, services, ministries, along with other organizational and personal goals. The topic will be pursued from a copywriting and marketing communications perspective. Topics include identifying target audiences for ministry, nonprofit and for-profit applications, identifying techniques for developing audience dialogue, including blogging, Twitter, Facebook, and developing strategies for dialogue-driven communication.

ENG3315 Online Help Authoring* . . . . . **2 cr**
(**PQ**: ECE passed, ENG2205 or ENG2825) A study of the writing style and skills required to create online documentation. Students will demonstrate their command of the help authoring tool by creating and implementing an online help system.

ENG3316 Freelance Copywriting*. . . . . **2 cr**
(**PQ**: ECE passed, ENG2205 or ENG2825) A writing course designed to give students practical knowledge and skills which will enable them to do independent, freelance writing for ministry and for profit.

ENG3625 Advanced Writers Workshop*. . . . . **2 cr**
(**PQ**: two of the following: ENG2215, ENG2216, or ENG2217, or consent of instructor**)** A continued development of students' skills in reading and writing poetry and prose. Course provides an intensive writing experience in which students produce sophisticated texts in a chosen genre.

ENG4435 Writing Theory and Ethics . . . . . **2 cr**
(**PQ**: ECE passed, ENG2205 or ENG2825, and junior or senior standing, or consent of instructor) A study of classical and contemporary writing theory using ethical paradigms.

ENG4615 Literary Editing . . . . . **0–1 cr**
(**PQ**: ENG2216, ENG2217, and consent of literary magazine advisor) Practical experience in editing *Inkstone*, the university literary magazine, including publicity, selection of creative pieces, and work with printing houses. **Note:** This course is designated as repeatable and may be repeated three times for credit after the original taking of the course. See page 31.

ENG4855 Senior Capstone: Creative Writing . . . . . **2 cr**
(**PQ**: ENG2205 or ENG2825, ENG2215, ENG2216, ENG2217, ENG4435, SPE1075 or SPE1825 and 4 credits from ENG2256, ENG2257, ENG3210, ENG3219, ENG3625, and approved topics, senior standing, English major with a writing or literature and writing concentration, and consent of instructor) An individualized course in which students write creative texts in poetry, personal essay, and/or short fiction.

ENG4858 Senior Capstone: Professional Writing . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, SPE1075 or SPE1825, ENG3246, ENG4435, and 4 credits from ENG2235, ENG3247, ENG3248, ENG3249, ENG3315, ENG3316 and approved topics, senior standing, English major with a writing or literature and writing concentration, or a professional writing major, and consent of instructor) An individualized course for which students write within the field of professional writing and produce a portfolio.

ENG4995 Professional Experience . . . . . 1–4 cr
(**PQ**: consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in writing, publishing, or other English-related employment. **Note:** See page 27 for note regarding internships (professional experiences).

English for Non-Native Speakers

LAN0009 English Lab. . . . . 2 cr
(Required of non-native speakers of English with ACT English or ACT English/Writing score of 18 or below [SAT Writing score of 440 or below] or with no ACT score**)** The content of ENG0009 adapted for students whose first language is not English. Taken in place of ENG0009.

LAN1105 Composition . . . . . 4 cr
(**PQ**: ACT English or ACT English/Writing score of 19 or above [SAT Writing score of 450 or above] or LAN0009 passed**)** The content of ENG1105 adapted for students whose first language is not English. Taken in place of ENG1105.

English as a Second Language (TESOL)

ESL3215 Language, School, and Society . . . . . 4 cr
(**PQ**: LIN2226**)** Examination of the role of language in human interaction and how it reflects socioeconomic status, power, ethnicity, geographical origin, political and religious identity, and gender. Implications for teaching and learning English as a second language.

ESL3315 Theory of Second Language Acquisition . . . . . 4 cr
(**PQ**: LIN2226**)** Study of current research and theories in second language acquisition. Examination of second language learning process and variables that affect second language acquisition.

ESL4325 Teaching Grammar for ESL - TESOL. . . . . 2 cr
(**PQ**: ENG3125, LIN2226, and ECE passed, and enrollment in TESOL minor**)** Study of English grammar with emphasis on how to effectively present English grammatical points to ESL students in diverse settings.

ESL4326 ESL Curriculum and Assessment - TESOL . . . . . 2 cr
(**PQ**: ENG3125 and LIN2226, and enrollment in TESOL minor**)** Study and practice of language curriculum development. Study and practice of formal and informal second language assessment techniques to determine appropriate placement and to evaluate the progress of ESL students in diverse settings.

Finance

FIN2221 Finance I . . . . . 2 cr
(**PQ**: ACC2101 [C or better], and MAT2035 or MAT2121) Introduction to financial concepts and issues within the context of the corporation. Topics include analysis of financial statements, budgeting, leverage, and working capital management.

FIN3025 Personal Money Management. . . . . 2 cr
A survey of the principles of financial management from the viewpoint of the consumer. Topics include personal budgeting, consumer buying, credit, real estate, investments, personal income tax, insurance, risk analysis, trusts, wills, and estates. (Open to business and non-business majors.)

FIN3222 Finance II . . . . . 2 cr
(**PQ**: C or better in FIN2221 or ACC3201) A continuation of FIN2221. Further examination of financial issues within the corporation. Topics include time value of money, risk/return relationships and application to capital budgeting.

FIN3225 Investments . . . . . 4 cr
(**PQ**: FIN2221 [C or better], SPE1075 or SPE1825, or consent of instructor**)** Discussion of decision criteria and procedures used in investment selection. Risk as a concept is explored. Relationships between risk and return are developed and used with analytical techniques developed to study marketable securities. Portfolio management, including international aspects, is developed in the context of dynamic financial markets. **Note:** Fall semester offering of this course is designed for non-finance majors. Spring semester offering is designed for finance majors.

FIN3226 Money and Banking* . . . . . 4 cr
(**PQ**: ACC2102, ECO2202, and FIN3222 [C or better required in all]**)** A history of commercial banking, functions of the Federal Reserve System, creation of money, open market operations, and fiscal and monetary controls.

FIN3227 Trusts, Wills, and Estates# . . . . . 2 cr
(**PQ:** ACC2101 [C or better], and MAT2035 or MAT2121**)** An advanced analysis of the various tools of estate planning, including trusts and wills.

FIN4845 Senior Finance Project. . . . . 2 or 4 cr
(**PQ**: consent of instructor) Instructor-directed, individual investigation of a major finance project. An extensive written and oral report is required.

French

FRE1001 Beginning French I+. . . . . 4 cr**
The first of a two-course sequence. This is an introduction to the French language. Practice in listening, speaking, reading, and writing. Emphasis placed on the development of communicative skills; individual expression and function within structured groups. No previous study of French required. Three 65-minute periods of lecture and one hour of lab per week; individual laboratory work required outside of class. **Note:** Course not currently offered.

FRE1002 Beginning French II+ . . . . . 4 cr**
(**PQ**: FRE1001 or waiver of FRE1001 by placement examination**)** The first of a two-course sequence. This is a continuation of the study of French language and culture. Practice in listening, speaking, reading, and writing. Continued emphasis on the development of communicative skills; individual expression and function within structured groups. Three 65-minute periods of lecture and one hour of lab per week; individual laboratory work required outside of class. **Note:** Course not currently offered.

FRE2101 Intermediate French I. . . . . 4 cr**
(**PQ**: FRE1002 or waiver of FRE1002 by placement examination**)** The first of a two-course sequence. The course provides a systematic study of the basic phonetic and syntactic structures of French. Emphasis on development of the written report and communicative skills. Class discussions are based on French culture and classical literature. Development of the written report and oral presentations. **Note:** Course not currently offered.

FRE2102 Intermediate French II . . . . . 4 cr**
(**PQ**: FRE2101 or waiver of FRE2101 by placement examination**)** The second of a two-course sequence. The course provides a systematic study of the phonetic and syntactic structures of French. Continued emphasis on development of the written report and communicative skills. Class discussions are based on French and Francophone culture and literature from selected countries. Development of the written report and oral presentations. **Note:** Course not currently offered.

General Studies

GST1015 Basic Computer Applications## . . . . . .1 cr**
This class teaches basic computer literacy and introduces students to common desktop applications such as word processing, spreadsheets, Internet, and multimedia. Software specific to the course includes Microsoft Word, Excel, Internet Explorer, and PowerPoint. Skills gained in the course will provide a foundation for using these applications in other Northwestern courses. Offered through the Undergraduate Online Learning venue only.

GST1025 The Impact of Culture in the U.S.: Exploring Behavior, Language and Transition in College Life . . . . . 1 cr**
(**PQ:** consent of instructor/program administrator) This course will use experiential techniques to expose students to a variety of learning paradigms that address best practices that align with a successful college life in the U.S. The course will focus on the adjustments students make upon entering college campuses in the U.S., and the strategies that support college success. The course will use a wrap-around approach to offer personalized interventions leading to a successful college experience. Students are expected to use this information to develop, and at the end of the course, present a personalized portfolio outlining strategies for continued success in meeting the academic rigor of college life. **Note:** This course is designated as repeatable and may be repeated six times for credit after the original taking of the course. See page 31.

GST1035 Discovering Majors## 1cr**
This experientially based course is recommended for students who are undecided about an academic major and who are motivated to explore options. Students will explore both the concept of a college major and the content within the major to understand how majors relate to careers. Students will learn about major/career decision making strategies, research and evaluate majors they are considering, and rank their major choices based on what they have learned. Finally, students will critically reflect on their decision making process and create an action plan for further exploration. Offered through the Undergraduate Online Learning venue only.

GST2825 Honors Seminar . . . . . 0 cr**
A required meeting time for members of the Eagle Scholars Honors Program. **Note:** This course is designated as repeatable. See page 31.

GST4005 Job Search Methods and Strategies . . . . . 1 cr**
A course designed to teach a full range of knowledge and skills necessary for transitioning from college to the world of work. Intended for students seeking a professional job or internship. Resume writing, cover letters, job searching, interviewing and utilizing the internet/social media for networking and job research are discussed and applied. Does not apply to core curriculum requirements in Social Science.

GST4095 Intent to Register for an Academic Internship . . . . . 1–14 cr**
(**PQ:** Faculty advisor approval) This course indicates a student's intent to register for an academic internship. It is to be used for students that intend to secure an academic internship, but will not have secured the internship prior to the deadlines required for financial aid and/or athletic eligibility.

GST4825 Honors Seminar . . . . . 0 cr**
(**PQ**: minimum of junior standing**)** A required meeting time for members of the Eagle Scholars Honors Program. **Note:** This course is designated as repeatable. See page 31.

POS2625 Workshop in Student Government . . . . . 0–1 cr**
(**PQ:** consent of instructor) For student government members only. **Note:** This course is designated as repeatable and may be repeated five times after the original taking of the course. See page 31.

POS4625 Workshop in Student Government . . . . . 0–1 cr**
(**PQ:** consent of instructor) For student government members only. **Note:** This course is designated as repeatable and may be repeated five times after the original taking of the course. See page 31.

RDG0009 College Reading Strategies . . . . . 1 cr**
(Required of new students with ACT Reading score of 16 or below**)** A course designed to foster the development of college-level reading skills. Credits do not apply to degree requirements.

STS0009 Study Strategies . . . . . 1 cr**
(Successful completion of this course is required of new students admitted into the Transition-to-University Program. Transition-to-University students failing to achieve a passing grade in this course will be automatically registered for the course in the subsequent Quad.) A course designed to prepare students for college work and to improve study skills. Credits do not apply to degree requirements.

Geography

GEO1005 Introduction to Geography# . . . . . 4 cr
An introduction to the study of the interrelation of human and physical geography. Attention is directed to geographical concepts, maps, physical geography, population geography, cultural geography, political geography, agriculture, and economic geography.

GEO1015 World Geography# . . . . . 4 cr
An analysis of the global perspective of peoples and places in a political and economic geographical context. Topics include the study of the various geographical regions of the world with attention paid to the particular aspects of each region's peoples, cultures, and economic development.

German

GER1001 Beginning German I+ . . . . . 4 cr**
The first of a two-course sequence. This is an introduction to the German language and culture. Practice in listening, speaking, reading, and writing. Emphasis placed on the development of communicative skills; individual expression and function within structured groups. No previous study of German required. Three 65-minute periods of lecture and one hour of lab per week; individual laboratory work required outside of class. **Note:** Course not currently offered.

GER1002 Beginning German II+ . . . . . 4 cr**
(**PQ**: GER1001 or waiver of GER1001 by placement examination**)** The second of a two-course sequence. This is a continuation of the study of German language and culture. Practice in listening, speaking, reading, and writing. Continued emphasis on the development of communicative skills; individual expression and function within structured groups. Three 65-minute periods of lecture and one hour of lab per week; individual laboratory work required outside of class. **Note:** Course not currently offered.

GER2101 Intermediate German I . . . . . 4 cr**
(**PQ**: GER1002 or consent of instructor**)** The first of a two-course sequence. The course provides a systematic study of the basic phonetic and syntactic structure of German. Emphasis on development of the written report and communicative skills. Class discussions are based on German culture and classical literature. Development of the written report and oral presentations. **Note:** Course not currently offered.

GER2102 Intermediate German II . . . . . 4 cr**
(**PQ**: GER2101 or consent of instructor**)** The second of a two-course sequence. The course provides a systematic study of the phonetic and syntactic structures of German. Continued emphasis on development of the written report and communicative skills. Class discussions are based on contemporary German culture and literature. Development of the written report and oral presentations. **Note:** Course not currently offered.

Health & Physical Education

Full details are given under Department of Education programs for the Physical Education/Health licensure areas. See pages 76-80 and 90-91.

HPE1005 Foundations of Physical Education and Health . . . . . 2 cr
For freshmen and sophomores majoring or minoring in physical education or kinesiology Survey of trends in the field of physical education. History, present philosophy, and objectives are examined. Professional publications in the field are analyzed.

HPE2005 First Aid and Personal Safety. . . . . 1 cr
Skills and knowledge necessary to give aid to victims of trauma or sudden illness. Red Cross first aid and CPR certifications available.

HPE2006 Family, Social, and Sexual Health Promotion Strategies. . 2 cr
This course will explore the current knowledge, attitudes, and contemporary issues in family, social and sexuality education and prepare future professionals for family life and sexuality education at the K–12 level. The course is intended to help students increase their knowledge of sexuality, relationship principles and the ability to educate and promote sexual and family health. There will be an emphasis on knowledge mastery, curriculum design, educational materials, and implementation methods.

HPE2015 Techniques of Team Sports . . . . . 3 cr
The theory and practice of skill analysis and instructional strategies in the teaching of soccer, flag football, team handball, dance rhythms, lacrosse, basketball, softball, and badminton.

HPE2016 Techniques of Individual and Lifetime Sports . . . . . 3 cr
The theory and practice of skill analysis and instructional strategies in the teaching of archery, racquetball, gymnastics, bowling, cross country skiing, swimming, golf, in/outdoor recreation, and track and field.

HPE2025 Principles of Sport Management . . . . . 4 cr
This course covers the basic knowledge and skill sets of a sport manager to current trends and issues in the sport management industry. This course provides the foundation for students as they study and prepare for a variety of sport management careers. The major themes within this course include foundations of sports management; amateur sport industry; professional sport industry; sport industry support segments; lifestyle sports, and career preparation.

HPE2175 Anatomy of Human Movement . . . . . 4 cr
(**PQ**: BIO1009 or BIO1011) The course examines the anatomical structures of human movement. Though basic knowledge of respiratory, endocrine, digestive, integument, and urinary systems will be covered, emphasis is placed on understanding the functional anatomy. A majority of the study will be of the circulatory, neuromuscular, skeletal, and articular systems and their relationship to human movement, exercise, and sport. The course is designed as a complimentary course to the mechanics of human movement known as Biomechanics. Three lectures and one two-hour per week.

HPE3005 Personal and Community Health . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, ECE passed, and SPE1075 or SPE1825**)** A study of personal and community problems in selected physical, emotional, social, spiritual, and mental areas.

HPE3006 Human Nutrition . . . . . 4 cr
Nutrition needs throughout the life cycle; the relationship between the quality of diet and diseases; an understanding of the present knowledge of nutrient requirements, functions, and availability for optimum health and fitness.

HPE3007 Coaching Theory* . . . . . 2 cr
Theoretical and practical foundations of coaching. Topics include coaching philosophies, leadership techniques, skill analysis, practice design, motivational approaches, and administrative issues.

HPE3008 Health Behavior: Theory and Program Planning . . . . . 2 cr
A study of the determinants of health behavior, factors influencing health behavior, health behavior theories, and application methodology will be outlined. Contemporary models to plan health education programs will also be discussed.

HPE3009 Officiating Athletics . . . . . 2 cr**
Techniques, rules, problems, and procedures in officiating high school basketball, volleyball, and baseball.

HPE3015 Adapted Fitness and Activity . . . . . 2 cr
A study of exceptional physical and mental conditions that affect body movement and motor development. Course material will also cover techniques and principles directed to a teacher or trainer of fitness and sport for special populations and/or students with physical disabilities.

HPE3075 Assessment and Measurement in Physical Education . . . . 2 cr
A study of existing methods of evaluation for physical education programs with consideration given to techniques of test administration and the organization and interpretation of test data.

HPE3205 Advanced First Aid . . . . . 1 cr**
(**PQ**: HPE2005**)** Advanced first aid training techniques.

HPE3275 Care and Prevention of Injuries . . . . . 2 cr
(**PQ**: HPE2005**)** Theory and practice of taping and rehabilitation techniques. The role of coaches in care of injuries will be studied.

HPE3305 Health Education Curriculum and Instruction . . . . . 3 cr
This course provides teachers with the competencies and knowledge needed to teach school health education. An examination of the school health program, national health education curricula, national health education standards, and pedagogy and teaching resources in health education will form the focus of the course.

HPE3376 Exercise Physiology* . . . . . 4 cr
(**PQ**: BIO3157 or HPE2175) A study of the physiological effects which muscular activity and exercise have upon the human body. Laboratory experiments, diagnostic techniques, and methods will be integrated with principles and theory.

HPE3377 Biomechanics* . . . . . 4 cr
(**PQ**: BIO3157 or HPE2175) Mechanics of body movement, principles of leverage, application of muscular forces, and the analysis of physical skills.

HPE4075 Administration of Physical Education and Sport* . . . . . 2 cr
Current practices and principles applied to problems of organization and administration of curricular and extracurricular programs in physical education and sport.

HPE4305 Health and Fitness Evaluation and Diagnosis* . . . . . 2 cr
(**PQ**: HPE3376**)** The professional preparation in the fitness field as well as the theory and practice of evaluating physical fitness for the purpose of prescribing cardiovascular, flexibility, and strength training exercise to all age groups, both healthy persons and those with medical concerns.

HPE4405 Development Motor Assessment . . . . . 2 cr**
Concepts of evaluation of motor skills of the disabled student. Instruction in the assessment, prescription, and use of instructional/administrative methods, materials, and equipment relevant to specific handicapping conditions in the adaptive physical education setting.

HPE4406 Adapted Exercise for the Developmentally Disabled . . . . 2 cr**
The study of exercise programs for persons with disabilities and individual differences. Practice in the assessment of individual fitness levels and the prescription of exercise programs.

HPE4407 Aquatics and Physical Activities for the Developmentally Disabled . . . . . 2 cr**
A study of the concepts and skills essential to the programming and adaptation of methods, materials, physical activities, and facilities to meet the needs of the disabled student. Specialized instruction and experience will be provided in the area of adapted aquatics.

HPE4615 Practicum: Developmentally Adapted Physical Education4 cr**
The application of skills, knowledge, and concepts necessary for planning, organizing, and conducting developmental/adapted physical education programs through supervised field experience. This experience involves the student with persons who exhibit various physical and/or mental handicapping conditions.

Health Sciences

HSC4835 Senior Seminar for the Health Sciences . . . . . 2 cr
(**PQ:** ENG2205 or ENG2825, ECE passed, SPE1075 or SPE1825, and at least junior standing as a health sciences major) A capstone course designed to provide an integration of concepts in the biological sciences, biochemistry, and the health professions with a discussion of the ethics of applied biology and the health sciences. Students submit multiple position papers and a term paper and deliver an oral PowerPoint presentation.

HSC4995 Health Sciences Internship . . . . . 2 cr
(**PQ:** liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in the health professions. **Note:** See page 27 for note regarding internships.

History

HIS1005 History of Western Civilization# . . . . . 4 cr
A study of world civilization with emphasis upon the development of Western cultural traditions from ancient to modern times. Special attention is given to the Bible as a historical document and to the concepts of institutional development and cultural diffusion. Emphasis is on the interaction of Western institutions and ideas with the forces of absolutism, enlightenment, revolution, industrialism, nationalism, liberalism, imperialism, Darwinism, and militarism. Equivalent to HIS1009 (see Graduate & Continuing Education catalog).

HIS1825 Honors History of Western Civilization . . . . . 4 cr
(**PQ:** ACT Composite score of 27 or above [SAT score of 1210 or above], or consent of instructor) A study of the development of western civilization, focusing on the religious, political, artistic, educational, and cultural traditions of the West. Special emphasis is placed on historical thinking and the use of documents to create historical interpretations. The course is taught as a seminar and stresses the practice of rhetoric in all its forms: writing, discussion, presentation, and debate.

HIS2001 U.S. History to 1877 . . . . . 4 cr
A survey of the social, economic, political, religious, and diplomatic history of the United States from the age of exploration and colonization through the Reconstruction period. Topics include exploration and colonization, the American Revolution, the new nation, Jacksonian Democracy, slavery, reform, manifest destiny, sectionalism, economic development, the Civil War, and Reconstruction.

HIS2002 U.S. History since 1877. . . . . 4 cr
A survey of the social, economic, political, religious, and diplomatic history of the United States since Reconstruction. Topics include the Gilded Age, the Progressive Era, World War I, the Twenties, the Great Depression, World War II, the Cold War, and recent America.

HIS2005 Introduction to Historical Studies . . . . . 2 cr
Meant for all History majors and minors, this course will equip students with the concepts and skills necessary for completing upper-level history courses. Topics include locating historical resources, bibliographies, citation, historical argumentation, historiography, and the integration of Christianity and historical study.

HIS3105 History of the Ancient Near East* . . . . . 4 cr
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A study of the history and culture of the civilizations of Mesopotamia, Syria-Palestine, Asia Minor, and Iran from earliest times to 500 B.C. Special attention will be given to the history and culture of the Monarchy period in Israel.

HIS3106 History and Archaeology of Ancient Egypt . . . . . 4 cr
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A study of the history and culture of the civilization of ancient Egypt from earliest times to 500 B.C. Special attention will be given to contacts with Israel and to the methods and discoveries of archaeology in the Nile Valley.

HIS3115 Old Testament Archaeology*# . . . . . 2 cr
(**PQ**: For traditional undergraduates only: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A survey of the methods and results of archaeology as applied to sites and topics of Old Testament significance. Special emphasis is placed upon the interpretative and apologetic uses of archaeology.

HIS3116 New Testament Archaeology*#. . . . . 2 cr
(**PQ**: For traditional undergraduates only: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A survey of the methods and results of archaeology as applied to sites and topics of New Testament significance. Special emphasis is placed upon the interpretative and apologetic uses of archaeology.

HIS3117 History of Ancient Israel#. . . . . 4 cr**
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A survey of the political and cultural history of ancient Israel during the Old Testament period. Emphasis is given to understanding Israel within the broad context of the Near Eastern world.

HIS3125 History of the Christian Church from Apostolic Times to the Present# . . . . . 4 cr
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A study of the Christian church from apostolic times to the present. Emphasis is on the development of institutions, traditions, doctrine, ideas, expansion, the relationship of church and state, denominationalism and sectarianism and the interactions of the church with secular and intellectual movements.

HIS3127 History of Europe in the Middle Ages* . . . . . 4 cr
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A survey of Medieval Europe from the fall of the Roman Empire to 1300 A.D. Political, religious, social, and cultural developments in England, France, and the Holy Roman Empire will be covered.

HIS3128 History of the Greek World* . . . . . 4 cr
(**PQ:** HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A study of the history and culture of the ancient Greek world from earliest times to 30 B.C., with special emphasis on literature, religion, and the impact of Greek civilization on Christianity.

HIS3129 History of the Roman World* . . . . . 4 cr
(**PQ:** HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A study of the history and culture of the ancient Roman world from the Republic through the fall of the Western empire in 476 A.D., with special attention to contacts with early Christianity, Roman literature, and Roman religion.

HIS3135 Renaissance and Reformation. . . . . 4 cr**
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A study of European history from 1300 to 1650. Topics include the development of nation-states, capitalism, humanism, exploration and colonization, science and technology, the fine arts, religious reform, and warfare.

HIS3136 History of Europe in the 18th and 19th Centuries*. . . . . 4 cr
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A survey of European political history and socio-cultural developments between 1700 and the outbreak of World War I.

HIS3145 History of Twentieth Century Europe* . . . . . 4 cr
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) A study of European developments from World War I to the present. Emphasis is on political and economic systems and the place of Europe in world affairs. Other topics include fine arts, religion, demography, and social systems.

HIS3146 History of Western Thought. . . . . 4 cr**
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor) The study of significant ideas and their consequences for the modern world. Among the topics to be studied are major philosophical movements such as rationalism, empiricism, transcendentalism, existentialism, phenomenology, social Darwinism, Marxism, socialism, and capitalism.

HIS3155 History of East Asia* . . . . . 4 cr
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor**)** An examination of the political, social, economic, and cultural backgrounds of modern China, Japan, and Southeast Asia. A survey of current political, economic, and cultural conditions will be included.

HIS3156 History of Russia from Earliest Times to the Present. . . . 4 cr**
(**PQ**: HIS1005 or HIS1825 or concurrent enrollment, or consent of instructor**)** A study of the history and development of Russia from the ancient world to the present with special emphasis on the 19th and 20th centuries. Topics to be studied will include Russian political, social, cultural, and religious history.

HIS3205 History of Minnesota . . . . . 4 cr**
(**PQ**: HIS2001 or HIS2002 or consent of instructor**)** The study of the discovery and development of Minnesota during the periods of exploration, settlement, statehood, Civil War, and the recent era.

HIS3206 History of Recent America, World War II to the Present* . . 4 cr
(**PQ**: HIS2001 or HIS2002 or consent of instructor**)** An examination of the political, social, and economic forces, events, ideas, and trends which have shaped the United States, including the impact of World War II, the Cold War era, the Korean War, the Vietnam War, and the domestic and foreign affairs of the 1980s and 1990s.

HIS3207 History of U.S. Foreign Relations. . . . . 4 cr**
(**PQ**: HIS2001 or HIS2002 or consent of instructor**)** The study of the diplomatic and foreign policy history of the United States from the American Revolution to the post-Cold War era. Attention is paid to the historical periods and the themes of isolationism, manifest destiny, imperial expansionism, and hegemonic leadership, as well as the historiography of the field.

HIS3365 History and Philosophy of Science . . . . . 4 cr**
(**PQ**: junior standing or consent of instructor**)** The development of science and its influence on technology and human thought from the earliest times to the 20th century. Emphasis will be on the physical sciences. Students write a major paper on an approved historical topic and give an oral presentation based on it.

HIS3835 Career Competencies Seminar . . . . . 0 cr
(**PQ**: minimum of junior standing) Orientation and preparation for an academic internship. To be completed the semester prior to enrolling in the internship course offered by the academic department.

HIS4835 History Seminar. . . . . 4 cr
(**PQ**: history major, senior standing, ENG2205 or ENG2825, ECE passed, and SPE1075 or SPE1825, or consent of instructor**)** A senior seminar class dealing with the methodology of the historian and with historical bibliography.

HIS4995 History Internship . . . . . 1–8 cr
(**PQ**: consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in history. **Note**: See page 27 for note regarding internships.

Honors Courses

ART1825 Honors Topics: Art Appreciation . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** An in-depth study of a particular historical period or geographic location of visual art. Focus of the course is on descriptive, interpretive, and evaluative analysis of art.

BIA1825 Honors Biblical Worldview: Personal Responsibility . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** A study in practical application of Scripture to basic spirituality issues: the gospel, integrity, Christian disciplines, worldview, and Christian character and witness in a secular society. Class methods include discussion, original investigation, and critical analysis of the issues.

BIA2825 Honors Principles of Biblical Interpretation. . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** This course, which launches students into a hands-on study of Scripture and supplements that practical experience with a discussion and analysis of some of the main issues in biblical interpretation, is designed to enable students to derive spiritual benefit and mental stimulation from their study of Scripture and as a result, develop a deeper relationship with our eternal and inexhaustible God.

BIB1825 Honors Old Testament History and Literature . . . . . 4 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** A synthetic study of the purpose and message of the Old Testament and of how each part of the testament contributes to the whole. All 39 books are examined: their authorship, date, historical setting, message, literary structure, and distinctives. The honors section of the course involves students in the problems and issues relating to most, if not all, of the books of the Old Testament, seeing the Old Testament as a product of the ancient Near East.

BIB1826 Honors New Testament History and Literature . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** A study of the socio-historical setting, literary genres, and theological message of the New Testament. Students study the process by which the New Testament was established, the relationship of the Old Testament to the New Testament, and critical methods of New Testament scholarship.

BIB3825 Honors Topics in Old Testament Exposition . . . . . 2–4 cr
(**PQ**: 3.6 cum GPA or higher, BIA2115 or BIA2825, or consent of instructor) Each of the offerings of this course focuses on an Old Testament book or grouping of books; specifically addressing its more specialized, technical, and problematic issues; and interacts with the work of scholars who have made special contributions to the field of study.

BIB3826 Honors Topics in New Testament Exposition . . . . . 2–4 cr
(**PQ**: 3.6 cum GPA or higher, BIA2115 or BIA2825, or consent of instructor) Each of the offerings of this course focuses on a New Testament book or grouping of books; specifically addressing its more specialized, technical, and problematic issues; and interacts with the work of scholars who have made special contributions to the field of study.

BIB3827 Honors Topics in Old/New Testament Exposition . . . . . 2–4 cr
(**PQ**: 3.6 cum GPA or higher, BIA2115 or BIA2825, or consent of instructor) Each of the offerings of this course focuses on Old and New Testament books or grouping of books as specified in the class schedule. Each course offering moves quickly through the basic content of the biblical book(s) to focus on more specialized, technical, and problematic issues. Some of the issues that are examined critically include introductory matters (authorship, date, provenance, purpose, and literary background), structure, theology, and use in the Old or

New Testament. Emphasis is given to interaction with the work of Old or New Testament scholars who have made special contributions to the book(s) studied.

BIB4825 Honors Christian Theology. . . . . 4 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above], 3.6 GPA or higher, or consent of instructor**)** An introduction to Christian beliefs considered from a systematic theological vantage point: the Trinitarian God, God's revelation, God's creatures (angels and human beings), God's redemptive work (sin, salvation, and Israel and the Church), and the consummation of all things. The course methods emphasize reading primary sources and assessing contemporary theological trends.

BIO2825 Honors Topics in Biology* . . . . . 4 cr
(**PQ:** ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor) A study of a specialized aspect of biology curriculum that includes contemplation of the natural world that God created. The laboratory component may consist of an intensive field trip to a specialized ecosystem or habitat.

ENG1825 Honors Composition . . . . . 4 cr
(**PQ**: ACT English or ACT English/Writing score of 27 or above [SAT score of 610 or above], or consent of instructor; taken in place of ENG1105**)** A writing course for students who have demonstrated special proficiency in language use and reading skills. Through individual and collaborative assignments, students will practice their critical reading and thinking skills, study rhetoric by analyzing argumentation, and write essays in multiple genres.

ENG2825 Honors Critical Thinking and Writing . . . . . 2 cr
(**PQ**: ENG1105 or ENG1825, ECE passed, and ACT English or ACT English/Writing score of 27 or above [SAT Writing score of 610 or above], or consent of instructor; taken in place of ENG2205) A writing course for students who have demonstrated special proficiency in language use and reading skills. The course is designed to improve students' skills in source analysis, critical thinking, and argumentation as they create a research paper. Through individual and collaborative assignments, students will develop skills in research by using reference materials, journals, and databases related to their disciplines**.** This course must be taken before a student completes 60 graduation credits.

GST2825 Honors Seminar . . . . . 0 cr
A required meeting time for members of the Eagle Scholars Honors Program.

GST4825 Honors Seminar . . . . . 0 cr
(**PQ**: minimum of junior standing**)** A required meeting time for members of the Eagle Scholars Honors Program.

HIS1825 Honors History of Western Civilization . . . . . 4 cr
(**PQ:** ACT Composite score of 27 or above [SAT score of 1210 or above], or consent of instructor) A study of the development of western civilization, focusing on the religious, political, artistic, educational, and cultural traditions of the West. Special emphasis is placed on historical thinking and the use of documents to create historical interpretations. The course is taught as a seminar and stresses the practice of rhetoric in all its forms: writing, discussion, presentation, and debate.

DS3825 Honors Colloquium . . . . . .0–4 cr
(**PQ:** ACT Composite score of 27 or above [SAT score of 1210 or above], 3.6 cum GPA or higher, or consent of instructor) This is an honors topics class in which students from a variety of disciplines do individualized study centered within a common theme. Students then meet in a colloquium setting of sharing and discussing with each other the results of their study.

LIT2825 Honors Topics in Literature . . . . . 2–4 cr
(**PQ**: ACT English or ACT English/Writing score of 27 or above [SAT Writing score of 610 or above], or consent of instructor) A study of literature in connection with a particular topic. Emphasis will be placed on independent work and critical thinking.

MAT2825 Honors History and Philosophy of Mathematics* . . . . . 4 cr
(**PQ**: ACT Math score of 27 or above [SAT Math score of 610 or above], or consent of instructor) An examination of the history and philosophy of mathematics. Development and problem solving related to number theory, geometry, algebra, calculus, and probability in the context of Mesopotamian, Egyptian, Greek, Chinese, and European cultures. Absolute and fallible philosophies of mathematics, including an investigation of current Christian views on mathematics.

MUS1825 Honors Introduction to Music . . . . . 2 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor) Designed for the non-music and music student alike to increase the interest in and understanding of music as an art form. This honors course will include more in-class discussion of issues such as the definition of music, critical issues in music, and Christian views of music.

PHI3825 Honors Topics in Philosophy . . . . . 2 cr
(**PQ:** 3.6 cum GPA or higher or consent of instructor) An investigation of a selected topic in philosophy for honors students.

SCI2825 Honors Topics in Natural Science* . . . . . 4 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** Systematic overview of principles and concepts in one or more of the following topics in the natural sciences: ecology, plant biology, animal biology, embryology, cell and molecular biology, and genetics.

SPE1825 Honors Public Speaking . . . . . 3 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above] or consent of instructor**)** An introductory study and analysis of basic principles of effective communication with emphasis on public address, interpersonal, and group communication. Class activities provide opportunities to develop skills in speech preparation and delivery, interpersonal, and group communication. Emphasis will be placed on research and critical thinking skills. Attention will also be given to rhetorical analysis of contemporary speeches.

Intercultural Studies

ICS2015 World Religions# . . . . . 4 cr
A survey of the beliefs and practices of the major religions of the world, including Animism, Buddhism, Confucianism, Hinduism, Judaism, and Islam.

ICS2655 Missions Experience . . . . . 1–4 cr**
Cross-cultural ministry experience. Must be ministry-related, significantly cross-cultural, and at least one week in length per credit. **Note:** This course is designated as repeatable. See page 31.

ICS3015 Race and Ethnicity in America# . . . . . 4 cr
Understanding the principles and processes which shape the patterns of relations between racial, ethnic, and cultural groups within a society. Examination and evaluation of various theories about the causes of prejudice, individual and institutional discrimination, racism, and stereotyping. Emphasis placed on the biblical perspective about what causes them and ways to combat them. How to resolve conflict arising from the topics discussed using the Bible as a guideline.

ICS3016 Understanding Islam . . . . . 2 cr
An overview of the Muslim faith as it is practiced today. Emphasis will be on areas of conflict and agreement with Evangelical Christianity and current issues in Christian witness to Muslims.

ICS3045 Lab for ICS Internships . . . . . 0–1 cr
Prepare ICS internship students for the integrated fall semester courses and overseas internship.

ICS3206 Intercultural Relationships . . . . . 2 cr
Consideration of the various relationships involved in overseas ministries, focusing on the individual's relations with God, co-workers, family, church, nationals, and the mission society.

ICS3208 Principles and Practices of Intercultural Studies . . . . . 2 cr
A brief overview of the biblical and philosophical principles on which Christian ministry in other cultural settings is based, and the practices by which those principles are currently carried out.

ICS3209 Urban Intercultural Studies. . . . . 4 cr
A study of the growth of the world's cities and a strategy for missions in the 21st century. Involves both class work and supervised field assignments.

ICS3215 Contemporary Religious Movements# . . . . . 2 cr
A study of major contemporary religious movements (19th–21st centuries), examining and evaluating their beliefs through a biblical grid.

ICS3835 Preparation Workshop . . . . . 4 cr
(Requires concurrent registration in ICS4990) Prior to the Overseas Intercultural Studies Internship, attention will be given to team building; developing ministry skills in music, testimony, messages, skits, and other ministry methods; plus learning the religious and cultural backgrounds of the countries to be visited.

ICS4205 History and Contemporary Issues of Missions . . . . . 4 cr
(**PQ**: ENG2205 or ENG2825**)** A survey and analysis of the historical roots of the modern missionary movement. Consideration of important issues in overseas ministry, including culture, the ecumenical movement, liberation theology, neo-universalism, tentmaking, and others.

ICS4207 Biblical Theology of Mission . . . . . 4 cr
(**PQ**: BIA2115 or BIA2825, BIB1001 or BIB1825, BIB1002 or BIB1826, and ENG2205 or ENG2825**)** A biblically-based study of the plan of God to be glorified among the nations, stretching from Genesis to Revelation, plus skill development in biblical theological method.

ICS4835 Seminar in Intercultural Studies . . . . . 2 cr
A capstone course for the ICS major including assessment of spiritual gifts and ministry experiences. Students individually work out plans and goals for further schooling and future ministries at home and/or overseas. Class work includes multiple oral presentations including presentation of the senior project.

ICS4990 Overseas Intercultural Studies Internship . . . . . 8 cr
(**PQ:** for students going on the fall missions trip. To be taken concurrently with ICS3835. Consent of faculty supervisor; liability release agreement and internship registration forms are required.) Application of classroom learning in cross-cultural ministry contexts. Itinerary varies annually. **Note:** See page 27 for note regarding internships.

ICS4991, 4992, 4993, 4994
Intercultural Studies Internship I, II, III, IV. . . . . 2 cr each
(**PQ:** consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised ministry experience which includes crossing of significant cultural and/or language barriers. **Note:** See page 27 for note regarding internships.

ICS4995 ICS/Spanish Internship . . . . . 2 or 4 cr
(**PQ:** consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) A supervised experience using Spanish. **Note:** See page 27 for note regarding internships.

ICS4996 ICS/TESOL Internship . . . . . 2 cr
(**PQ:** consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) A supervised experience practicing the teaching of English. **Note:** See page 27 for note regarding internships.

Interdisciplinary Studies

IDS3825 Honors Colloquium. . . . . 0–4 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above], 3.6 cum GPA or higher, or consent of instructor) This is an honors topics class in which students from a variety of disciplines do individualized study centered within a common theme. Students then meet in a colloquium setting of sharing and discussing with each other the results of their study.

IDS3865 Professional Competency Assessment. . . . . 1 cr
(**PQ**: For approved Interdisciplinary Studies majors only**)** Development of a collection of sample work appropriate to the Interdisciplinary Studies major. **Note:** This course is designated as repeatable. See page 31.

IDS4845 Capstone Project . . . . . 4–8 cr
(**PQ**: senior standing. For approved Interdisciplinary Studies majors only**)** An individualized project designed to incorporate elements of all disciplines included in the Interdisciplinary Studies major.

Japanese

JPN1001 Beginning Japanese I+ . . . . . 4 cr**
The first of a two-course sequence. This is an introduction to the Japanese language and culture. Practice in listening, speaking, reading, and writing. Emphasis on the development of communicative skills; individual expression and function within structured groups. No previous study of Japanese required. Three 65-minute periods of lecture and one hour of lab per week; individual laboratory work required outside of class. **Note**: Course not currently offered.

JPN1002 Beginning Japanese II+ . . . . . 4 cr**
(**PQ**: JPN1001 or equivalent**)** The second of a two-course sequence. This is a continuation of the study of Japanese language and culture. Practice in listening, speaking, reading, and writing. Continued emphasis on the development of communicative skills; individual expression and function within structured groups. Three 65-minute periods of lecture and one hour of lab per week; individual laboratory work required outside of class. **Note:** Course not currently offered.

JPN2101 Intermediate Japanese I . . . . . 4 cr**
(**PQ:** JPN1002 or equivalent**)** The first of a two-course sequence. The course provides a thorough review and expansion of grammatical structure and vocabulary of Japanese. Emphasis on the development of communicative skills. Class discussions are based on culture and selected Japanese literature. **Note:** Course not currently offered.

JPN2102 Intermediate Japanese II . . . . . 4 cr**
(**PQ**: JPN2101 or equivalent**)** The second of a two-course sequence. The course provides a systematic study of the basic phonetic and syntactic structures of Japanese. Continued emphasis on the development of communicative skills. Class discussions are based on contemporary Japanese culture and literature. Development of the written report and oral presentations. **Note**: Course not currently offered.

Journalism

Note: JOU2625-2627 and JOU4625-4627are designated as repeatable. See page 31.

JOU2061 Writing for Mass Media . . . . . 4 cr
(**PQ:** ECE passed**)** An introduction to journalistic writing for various media platforms, with an emphasis on print and web. Basic news and feature writing are done as students consider structure, organization, fact-gathering, and other components of the journalistic story.

JOU2625 Journalism Workshop. . . . . 0–1 cr
Practical experience in planning and producing the Column, University of Northwestern's student newspaper.

JOU2627 Photojournalism Workshop . . . . . 0–1 cr
Practical experience in photojournalism. Students serve as the photography staff for Northwestern's student newspaper (The Column) and student yearbook (The Scroll). Students take photos assigned by student publication editors, and participate in critiques and skill-building sessions.

JOU3266 Community Journalism* . . . . . 2 cr
(**PQ**: JOU2061 and ECE passed) Theory and practice of journalism in small towns and self-contained suburban communities. Students learn how community-based publications differ from those produced in larger civic, national, and international environments. Peculiarities of local readerships are discussed as well as the patterns and methods of writing, editing, and designing for members of small communities. Students leave prepared to intern at a community publication.

JOU3267 Religion Writing . . . . . 2 cr
(**PQ**: JOU2061 and ECE passed) Theory and practice of journalism involving spiritual themes and organizations. Students study the challenges and rewards of practicing journalism in the world of religion. The course examines the role of a religion writer for a secular publication and the practice of news reporting for a Christian publication.

JOU3268 Persuasive Writing . . . . . 2 cr
(**PQ**: ECE passed) This course explores the theory and practice of persuasive writing, and its application to a variety of journalistic and non-journalistic forms. Students will learn to write persuasive pieces in a clear and effective manner.

JOU3269 Publication Production . . . . . 2 cr
This course explores the skills needed to produce a printed publication. Students will also learn publication production, including typography, layout and design, desktop publishing and printing.

JOU4265 Freelance Journalism* . . . . . 2 cr
(**PQ:** JOU2061 and ECE passed) The freelance journalism course teaches students to apply the basic journalistic skills learned in JOU2061 to the freelance marketplace. This course includes a major emphasis on developing publishable work and marketing it to off-campus publications.

JOU4266 Investigative Reporting* . . . . . 2 cr
(**PQ:** JOU2061 and ECE passed) The investigative reporting course builds on the basic skills learned in JOU2061, equipping students with the skills needed to research and write investigative and in-depth stories, including the use of public records, databases, and advanced reporting techniques.

JOU4625 Journalism Workshop. . . . . 0–1 cr
(**PQ**: consent of instructor**)** Advanced practical experience in planning and producing the Column, University of Northwestern's student newspaper.

JOU4627 Photojournalism Workshop . . . . . 0–1 cr
(**PQ**: consent of instructor**)** Practical experience in photojournalism. Students serve as the photography staff for Northwestern's student newspaper (The Column) and student yearbook (The Scroll). Students take photos assigned by student publication editors, and participate in critiques and skill-building sessions.

JOU4846 Senior Project. . . . . 2 cr
(**PQ**: senior standing**)** Supervised by an instructor, students design and carry out a semester-long project that allows them to gain in-depth knowledge and experience in a particular area of print journalism such as writing, editing, interviewing, photojournalism, or some phase of publication production.

JOU4995 Journalism Internship. . . . . 1–3 cr
(**PQ**: consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in off-campus journalism. **Note:** See page 27 for note regarding internships.

Kinesiology

KIN1005 Sport in American Society . . . . . 2 cr
Introductory course in sports studies dealing with sport and physical activity as a psychological and sociological phenomenon. Emphasis on career opportunities in fields related to sport in American society.

KIN1615 Kinesiology Practicum I . . . . . 2 cr
(**PQ**: Kinesiology majors only**)** Supervised practical experience in a student's study of emphasis.

KIN1616 Kinesiology Practicum II . . . . . 2 cr
(**PQ**: Kinesiology majors only**)** Supervised practical experience in a student's study of emphasis.

KIN1617 Kinesiology Practicum III . . . . . 2 cr
(**PQ**: Kinesiology majors only**)** Supervised practical experience in a student's study of emphasis.

KIN3305 Upper Body Evaluation* . . . . . 2 cr
(**PQ**: BIO3157 or HPE2175, and HPE3275**)** Evaluation and diagnosis of injuries to the chest, spine, shoulder, elbow, wrist, and hand.

KIN3306 Lower Body Evaluation* . . . . . 2 cr
(**PQ**: BIO3157 or HPE2175, and HPE3275**)** Evaluation and diagnosis of injuries to the pelvis, knee, quadracep, hamstring, gastrocnemius, ankle, and foot.

KIN3307 Advanced Care and Prevention of Injuries* . . . . . 2 cr
(**PQ**: HPE3275**)** Methods of assessing the severity of athletic injuries and the understanding of rehabilitation programs of injured athletes. Course is also designed to acquaint the student with elements of administering an athletic training department/program.

KIN4835 Kinesiology Seminar . . . . . 1 cr
(**PQ**: senior standing**)** Issues, problems, and career opportunities in kinesiology today.

KIN4995 Kinesiology Internship . . . . . 10–14 cr
(**PQ**: senior standing; liability release agreement, evaluation consent, and internship registration forms are required) Supervised in-depth experience in a setting appropriate to the student's specialization in kinesiology. **Note:** See page 27 for note regarding internships.

Leadership

LDR2625 Workshop in Leadership Development . . . . . 0-1 cr
(**PQ**: consent of instructor) This course provides an opportunity for a student to explore and understand biblical leadership concepts. Emphasis will be given to developing a personal definition of leadership, understanding personal leadership gifts, applying the skills of leadership, and preparing for leadership beyond UNW. This course is for students who have been accepted into the leadership development program. **Note**: This course is designated as a repeatable course and may be repeated five times after the original taking of the course.

LDR3005 Principles and Practices of Leadership. . . . . 4 cr
(**PQ:** sophomore standing or consent of instructor) An introduction to leadership, emphasizing leadership theories, characteristics and competencies of leaders in various settings. Students will explore their own potential for leadership and their own best leadership styles. Special attention will be given to servant-leadership and its relationship to Christians functioning in both secular and religious organizations.

LDR4615 Practicum and Seminar in Leadership . . . . . 4 cr
(**PQ:** LDR3005) The course combines guided field-based leadership experience with weekly seminars. It provides opportunities for students to apply the principles of leadership and lessons from the practices of model leaders. A supervised work experience in a previously approved academic, private or public agency, or business firm amounting to at least 60 hours is required.

Linguistics

LIN2226 Introduction to Linguistics . . . . . 4 cr
(**PQ**: ECE passed, ENG2205 or ENG2825, or concurrently enrolled, or consent of instructor) A study of the basic concepts of language and the history of English. Includes phonetics, phonology, morphology, semantics, and syntax.

LIN2227 Introduction to Language Studies . . . . . 2 cr
(**PQ**: ECE passed, ENG2205 or ENG2825, or concurrently enrolled) A course in which students examine language and linguistic behavior as influenced by social and cultural factors. Topics include language development and learning, function of language, and the social, intellectual, and political impact of communication.

LIN4425 Linguistic Research Methods . . . . . 2 cr
(**PQ**:ENG2205 or ENG2825, SPE1075 or SPE1825, senior standing, English major with a linguistics concentration, and consent of department chairperson) A course which introduces students to methods of linguistic research to describe language both spoken and written. Students will elicit data with a variety of methods and analyze language while working with a research participant from an unfamiliar language and will conduct linguistic analyses of text. To prepare for their own individualized research, students will also conduct background research and locate a community or research participant for fieldwork or, for written language, a text to analyze.

LIN4856 Senior Capstone: Linguistics. . . . . 2 cr
(**PQ**:ENG2205 or ENG2825, LIN4425, SIL4325 or CIL4310, SIL4326 or CIL4360, SPE1075 or SPE1825, senior standing, English major with a linguistics concentration, and consent of instructor) An individualized course in which students research, analyze, and describe the language of a linguistic community or linguistic informant. Students will prepare a paper and a presentation on a topic such as a feature of a specific language, dialect, or accent.

LIN4996 Linguistics Professional Experience . . . . . 1–4 cr
(**PQ:** consent of faculty supervisor, liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in linguistics. **Note:** See page 27 for note regarding internships (professional experiences).

Literature

LIT1100 Introduction to Literature# . . . . . 4 cr
A study of the literary genres of fiction, poetry, drama, and the novel. Emphasis is placed on literary conventions and textual analysis. Equivalent to LIT1109 (see Graduate & Continuing Education catalog).

LIT1106 Popular Literature. . . . . 2 cr
A study of genres such as fantasy, mystery, science fiction, adventure, and other best-selling fiction. Particular focus of course to be published prior to registration. **Note:** This course is designated as repeatable as long as topic covered is not duplicated. See page 31.

LIT1107 Comparative Study of Major Authors . . . . . 2 cr
A course in which selected authors are compared and contrasted. Particular focus of course to be published prior to registration. **Note:** This course is designated as repeatable as long as topic covered is not duplicated. See page 31.

LIT2105 Introduction to Literary Studies . . . . . 4 cr
(**PQ:** ENG1105 or ENG1825, or concurrently enrolled, or consent of instructor) A course designed for English majors which provides training and practice in the analysis of various literary forms and in the use of argument, evidence, and documentation in literary essays. The course introduces literary theory while emphasizing the integration of faith, reading, and writing.

LIT2115 Novel. . . . . 4 cr
Reading and analysis of representative novels.

LIT2116 Christianity and Literature. . . . . 4 cr
A study of Christian themes within a variety of literary genres and texts.

LIT2117 Historically Based Literature . . . . . 2–4 cr
A study of literature produced during or concerning particular periods of time, such as the American Civil War, World War I, and the Holocaust. Particular focus of course to be published prior to registration. **Note:** This course is designated as repeatable as long as topic covered is not duplicated. See page 31.

LIT2118 Multiethnic American Literature . . . . . 4 cr
A study of literature from various cultures in America, such as African American, Native American, Hispanic, Asian, and others.

LIT2119 Drama . . . . . 2 cr
A study of literary and theatrical aspects of a variety of plays, classical through contemporary.

LIT2135 Shakespeare and Film . . . . . 4 cr
Course also listed as COM2135. Shakespeare and Film is a study of a selection of Shakespeare's plays and of films based on or inspired by Shakespeare. The course will include recent and classic film versions and film adaptations of the plays. It will provide an introduction to reading and interpreting the plays and viewing and interpreting the films.

LIT2156 Contemporary Poetry*. . . . . 2 cr
This course will survey poetry from 1945 to the present with an emphasis on identifying and understanding various movements, both simultaneous and successive, in contemporary literature.

LIT2157 Contemporary Fiction* . . . . . 2 cr
This course will survey fiction from 1945 to the present with an emphasis on identifying and understanding various movements, both simultaneous and successive, in contemporary literature.

LIT2825 Honors Topics in Literature . . . . . 2–4 cr
(**PQ**: ACT English or ACT English/Writing score of 27 or above [SAT Writing score of 610 or above], or consent of instructor**)** A study of literature in connection with a particular topic. Emphasis will be placed on independent work and critical thinking.

LIT3125 Survey of American Literature . . . . . 4 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** Reading, analysis, and discussion of selected American prose and poetry through the twentieth century.

LIT3136 Shakespeare . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** Reading, analysis, and discussion of selected Shakespearean plays.

LIT3137 Chaucer* . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** A study of Chaucer's *The Canterbury Tales.* Includes an introduction to Middle English through recitation and word studies. Also includes problems facing modern editors of medieval texts.

LIT3138 Milton* . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** A study of Milton and the cultural setting which sheds light on his works. Includes *Paradise Lost* and selections from several prose works and early poems.

LIT3145 Non-Western Contemporary Literature . . . . . 4 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** An investigation of selected works of contemporary non-Western authors, specifically non-American and non-British authors.

LIT3231 Survey of British Literature I*. . . . . 4 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** Reading, analysis, and discussion of selected British prose and poetry through the eighteenth century.

LIT3232 Survey of British Literature II* . . . . . 4 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** Reading, analysis, and discussion of selected British prose and poetry from the nineteenth and twentieth centuries.

LIT4146 Classic Literature: Ancient, Medieval, and Renaissance* . . 4 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled**)** A study of selected ancient, medieval, and Renaissance literature, excluding British authors.

LIT4225 Studies in American Literature . . . . . 4 cr**
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled; LIT2105 or consent of instructor) A study of a specific era or movement in American literature. Options may include one of the following periods**:** Colonial, Renaissance, Age of Realism, and Modernism.

LIT4235 Studies in European Literature* . . . . . 4 cr
(**PQ**: ENG2205 or ENG2825, or concurrently enrolled; LIT2105 or consent of instructor) A study of a specific era or movement in European literature. Options may include one of the following periods**:** Neoclassical, Romantic, Victorian, and Modern.

LIT4859 Senior Capstone: Literature. . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, LTH4155, SPE1075 or SPE1825, senior standing, English major with a literature or literature and writing concentration, and consent of instructor) An individualized course in which students research and write about a literary topic of their choice and prepare for postgraduate options.

LTH4155 Literary Theory . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, and junior or senior standing, or consent of instructor**)** This course is an introduction to literary theory and criticism. It offers students an opportunity to study various critical approaches to literature.

Management

MGT2271 Management . . . . . 4 cr
(**PQ**: MAT2035 or MAT2121 or ACT Math score of 24 or above [SAT Math score of 560 or above], and sophomore standing or consent of instructor**)** An introductory course covering the basic theory and practice of management, including planning, organizing, controlling, motivating, and leading. Case analyses and presentations are required.

MGT3075 Introduction to Entrepreneurship . . . . . 2 cr
(**PQ**: Consent of instructor) An introductory study of how to start a small business. Students examine their readiness to start a business, survey the legal issues facing a start-up, and examine the various approaches to business formation. Students apply the topics of marketing research and marketing mix to business case studies. Students must outline a business they are considering starting. This course does not examine the accounting, operations, or financing of a business. Students do not create a business plan in this course.

MGT3255 Human Resource Management . . . . . 2 cr
(**PQ**: C or better in MGT2271, or consent of instructor) An introduction to Human Resources (HR) as a vital function of an organization. Building to topics introduced in the Management course, students will investigate how the HR function can assist managers in enhancing the performance of their functional areas. Major topics include the changing nature of HR management, HR planning, organizational development, employee recruitment selection & retention, legal issues, employee training, appraisal, pay & benefits, motivation, and change implementation.

MGT3272 Management II* . . . . . 4 cr
(**PQ**: C or better in MGT2271**)** An intermediate-level course which covers key management theories and practices in more depth and breadth than MGT2271; e.g., teaming, empowering, partnering, etc. Case analyses and presentations and a comprehensive research paper are required.

MGT3275 Entrepreneurship & Small Business Management. . . . . 4 cr
(**PQ**: ACC2101, MGT2271, and FIN2221 or ACC3201 [C or better required in all four]) A study of specific managerial concerns in a small or start-up business. Students learn the value of small business in the U.S., the attributes of a successful manager in such organizations, and the. legal aspects of establishing & running a business. The functional areas of business, including marketing, operations, facilities, accounting, and human resources are explored. The course culminates in the development of a business plan with financial projections, financial requirements; and the pitch of the business concept to potential investors.

MGT3276 Operations Management . . . . . 2 cr
(**PQ**: MAT2055 and MGT2271**)** All businesses require some form of operations to deliver a product to service to a customer. In today's environment those operations may extend far beyond the firm into a global supply chain. This course studies the key elements of the supply chain & operations, including strategies & goals; key performance measures of quality, cost, & timeliness; and a number of tools and resources used to maximize results in operations and in the firm. Students engage in classroom exercises to understand concepts, field trips to see a variety of operations, and complex problems to expand their knowledge and sharpen their practical skills.

MGT3375 Operations Continuous Improvement . . . . . 2 cr
(**PQ:** C or better in MGT3276) Continuous improvement in Operations is essential for a firm to remain competitive in a global economy. This course covers Lean Operations operations as exemplified by the Toyota Production System, Statistical Quality Control (including 6 Sigma), and quality improvement. Field trips to local companies are part of the course.

MGT3376 Supply Chain Management . . . . . 2 cr
(**PQ**: C or better in MGT3276) This course provides basic definitions and concepts for planning and controlling the flow of materials into, through, and out of an organization. It explains fundamental relationships among the activities that occur in the supply chain from suppliers to customers. In addition, the course addresses types of manufacturing systems, forecasting, master planning, material requirements planning, capacity management, production activity control, purchasing, inventory management, distribution, quality management, and Just-in-Time manufacturing.

MGT4245 Corporate Strategy Development . . . . . 2 cr
(**PQ**: ACC2102, ECO2202, MGT2271, and FIN2221 or ACC3201 [C or better required in all four]; and SPE1075 or SPE1825, and senior standing) This course introduces students to the Strategic Management Process and its application to business cases. Readings in contemporary publications understanding of the strategic challenges facing businesses. Teamwork and quantitative analysis are emphasized. Guest speakers and field trips reinforce the topics covered.

MGT4267 Project Management . . . . . 2 cr
An introductory course in project management that presents methods for planning and scheduling a project in use of tools such as GANTT chart, Critical Path Method (CPM), Program Evaluation and Review Technique (PERT) and software to monitor and control projects.

MGT4855 Corporate Strategies and Policies . . . . . 4 cr
(**PQ**: ACC2102, ECO2202, MGT2271, and FIN2221 or ACC3201 [C or better required in all four]; and SPE1075 or SPE1825, and senior standing**)** This is the senior capstone course. Students gain knowledge of the Strategic Management Process through readings and case analysis. Greater business and strategic understanding is then developed with readings in contemporary publications and application to cases. Teamwork, quantitative analysis, current business news, and strategic communication are emphasized. Guest speakers and field trips reinforce the topics covered.

Management Information Systems

MIS1075 Principles of Management Information Systems . . . . . 2 cr
This course provides the student with an introduction to computer hardware, development of computer programs for problem solving, basics of object oriented programming, fundamentals of computer security, and use of computer networks.

MIS1115 Introduction to Databases and Spreadsheets. . . . . 2 cr
Students are introduced to the Microsoft Excel Spreadsheet and Access Database. The course provides hands-on experience. Students will learn to create and manipulate spreadsheets: enter formulas, copy and format cell entries, create graphs, sort, edit, and print a spreadsheet. It introduces students to the basic concepts and terminology of database software. Students will learn to create, edit, calculate, and extract data for reports relevant for practical applications in today's business world. Students learn skills applicable in other business courses that are essential for employment opportunities during college and upon graduation.

MIS2071 Programming I . . . . . 4 cr
This course introduces event-driven computer programming using a graphical user interface and object-oriented language. Topics include classes/controls, objects, events, methods, properties, syntax, program structure, data types, functions, loops, conditional statements, and connecting to a database.

MIS2125 Business Information Systems . . . . . 2 cr
(**PQ**: C or better in MIS1115, business department major or minor, or consent of instructor**)** A study of the use of software applications to support business management decisions. Students learn advanced application software to solve managerial problems. Emphasis is placed on application to current business problems. The case study method is used extensively.

MIS2175 Business Software Development. . . . . 2 cr
(**PQ**: COS1075 or MIS1075) This course provides the student with an introduction to developing front-end applications for databases and developing applications in a business environment.

MIS3265 Systems Analysis and Design. . . . . 4 cr
(**PQ**: Concurrent or previous registration in MIS2071 or MIS3272, or consent of instructor**)** This course presents an overview of the systems-development life cycle with emphasis on the analysis and design phases of software development. The student learns to use one of the popular analysis and design methodologies and a software tool supporting the methodology.

MIS3267 Operating Systems Concepts . . . . . 2 cr
(**PQ**: MIS3265 or consent of instructor**)** This course provides the student with an overview of the principles upon which all operating systems are built. The concepts of file, processor, input/output, and memory management are explored. In addition, higher-level concepts such as security, multiple processors, multitasking, concurrency, and transaction processing are covered. Specific instances of popular operating systems are examined and put into context in light of the principles learned.

MIS3272 Programming II . . . . . 4 cr
(**PQ:** MIS2071) This course provides an introduction to problem-solving techniques and the elements of object oriented computer programming. Topics include algorithm development, step-wise refinement, programming styles, fundamentals of control structures, parameters, procedures and functions, basic data types, debugging of programs, testing issues, arrays, and character and string processing.

MIS3361 Database Management I . . . . . 4 cr
(**PQ**: MIS1115 [C or better] and MIS3265, or consent of instructor**)** This course presents the fundamental concepts of databases and the general architectures used in modern databases. The ideas of database design are presented along with topics such as database access, indexing, reports, and queries. The student will be exposed to one of the current database management systems. An actual database application using the programmability of the DBMS is created as part of this course.

MIS3362 Database Management II . . . . . 2 cr
(**PQ:** MIS3361) This course focuses on database system structures, structured query language (SQL), and distributed databases. Topics include: Report Generation, Data Analysis Using Multiple Constraints, Data Recovery and Transfer, Maintenance of Data Consistency and Integrity, and Database clusters.

MIS3368 Applications Development Tools and Techniques . . . . . 4 cr
(**PQ**: MIS3265 and MIS3361,or consent of instructor**)** This course builds upon the analysis, design, and programming skills previously mastered and utilizes a modern application development tool to introduce the student to the realm of applications development. Students learn the issues surrounding the applications development process and reinforce those concepts by creating a working application.

MIS3369 Computer Security Fundamentals . . . . . 4 cr
(**PQ**: Recommend MIS3368**)** This course covers an introduction to the concepts of security. These concepts are applied to areas such as programming, databases, networks, systems, and applications. The course covers general concepts and specific instances of security related threats. In addition, compliance issues are discussed such as Sarbanes-Oxley reporting and the Health Insurance Portability and Accountability Act (HIPAA).

MIS3373 Programming III . . . . . 4 cr
(**PQ**: MIS2071 or MIS3272, or consent of instructor**)** This course is a continuation of MIS3272 and introduces the student to the following topics**:** graphical user interfaces, recursion, threads, file input/output, networking, and data structures. These topics are covered using object oriented programming techniques.

MIS3381 Data Communications I . . . . . 4 cr
(**PQ**: MIS3265 or consent of instructor**)** This course provides the student with a comprehensive overview of the broad topic of data communications. The ISO OSI model for data communications is used as a framework. The ideas of LANs, WANs, and the World Wide Web are discussed, as are the concepts of security, network architectures, and network management and administration. Examples from modern computer networks are utilized.

MIS3382 Data Communications II. . . . . 2 cr
(**PQ:** MIS3381) This course is designed to introduce students to local area network hardware switch and router installation and configuration. The course is designed around OSI 7-layer Reference model and introduces the student to layer-2 switching, VLANs, Access Control Lists, IGRP, and routing protocols.

MIS4266 Management of Information Systems . . . . . 2 cr
(**PQ**: MGT2271 [C or better], MIS3265, and SPE1075 or SPE1825, or consent of instructor**)** The presence of information systems has changed the manner in which business is conducted and affects the day-to-day activities of a majority of employees in the workplace. The management of those systems requires an understanding of issues that fall outside the standard realm of management. This course provides the student with an understanding of the key issues related to the management of information systems and those who design and implement them.

MIS4465 Computer Firewalls . . . . . 2 cr
(**PQ:** MIS3369) This course presents the basics of VPN security and network firewalls. Basic installation techniques are covered along with how to make an intelligent choice of firewall technology. Basic firewall troubleshooting is also presented. This course aligns with the CheckPoint CCSA Certification outline.

MIS4466 Computer Forensics. . . . . 2 cr
(**PQ:** MIS3369) An introductory course that provides the student with methods for conducting a computer forensics investigation including procedures, tools, ethics, and analysis. This course maps to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification.

MIS4997 MIS Internship . . . . . 1–2 cr
(**PQ**: MIS3265, MIS3361, MIS3368 or consent of advisor, and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) This course affords the student the opportunity to gain real-world experience in a discipline of his/her choice. **Note:** This course is designated as repeatable and may be repeated three times for credit after the original taking of the course. See page 27 for note regarding internships (professional experiences).

Marketing

MKT1085 Principles of Marketing . . . . . 4 cr
The structure, function, and behavior of marketing systems are discussed. Emphasis is placed on the impact of social and economics environment and on the process of the decision-making aspect of marketing. Equivalent to MKT1086 (see Graduate & Continuing Education catalog).

MKT1086 Fundamentals of Marketing##. . . . . 3 cr
The structure, function, and behavior of marketing systems are discussed. Emphasis is placed on the impact of social and economic environment and on the process of the decision-making aspect of marketing. Equivalent to MKT1085. Offered through the Undergraduate Online Learning venue only.

MKT3165 E-Commerce . . . . . 4 cr
This course focuses on the application of marketing principles to E-Commerce including B2B, B2C, the use of Social Media, and how they provide business with a global outreach. Additional topics include: Internet Security, Social, Ethical, and Political issues. It is a hands-on course. Students will work individually and in groups.

MKT3185 Sales and Sales Management . . . . . 4 cr
(**PQ**: C or better in MKT1085**)** The management of company sales forces is the main focus of this course, which includes topics such as recruiting and hiring salespeople, defining sales territories, sales training, sales compensation, and sales presentation techniques.

MKT3186 Consumer Behavior and Research . . . . . 4 cr
(**PQ**: MKT1085 and MAT2055 [C or better required in both]**)** This course acquaints the student with the basic dynamics of consumer behavior and analytical techniques used in marketing to study consumer behavior. Consumer behavior examines influences upon consumer decision-making while marketing research relates to methods used to explore, examine, and evaluate existing market opportunities.

MKT3188 Advertising and Promotion* . . . . . 4 cr
(**PQ**: C or better in MKT1085**)** Analysis of the role of advertising and sales promotion in marketing. Subject areas treated include advertising strategy, agencies, media, and consumer motivation.

MKT3189 International Marketing. . . . . 4 cr
(**PQ:** C or better in MKT1085) Management problems, techniques, and strategies necessary to incorporate the marketing concept into a world market place. Particular attention is paid to environmental and cultural variables as they affect marketing procedure.

MKT4185 Managerial Marketing . . . . . 4 cr
(**PQ**: MKT1085 [C or better], SPE1075 or SPE1825, and consent of instructor**)** A study of the managerial problems relating to the development of a total marketing program: planning, organizing, coordinating, and controlling. Analysis of the complexity of decision-making in product development, pricing, research, and channel selection.

Mathematics

MAT0008 Introductory Liberal Arts Mathematics . . . . . 1 cr
(Required of all students with below-minimum mathematics placement test scores and whose major does not require MAT1015)
Designed to increase proficiency in the mathematics a student will encounter throughout life. Topics include, but are not limited to, fractions, decimals, percents, and ratio and proportion**.** Credit does not apply to degree requirements.

MAT0035 Introduction to Business Mathematics . . . . . 4 cr
A preparatory course for MAT2035 Quantitative Analysis. Students will review algebra and operations with real numbers; equations and inequalities; functions and graphs; and polynomial, exponential, and logarithmic functions. In addition, students will use systems of equations to solve break-even and equilibrium problems. Special emphasis will be given to realistic examples from the business world. **To be taken only as a prerequisite for MAT2035 Quantitative Analysis; does not fulfill the mathematics requirement in the Natural World category of the core curriculum.**

MAT1005 Mathematics for the Liberal Arts# . . . . . 4 cr
(**PQ**: ACT Math score of 18–23 [SAT Math score of 430–540] or successful completion of MAT0008; see guidelines according to major on pages 41-42**)** A course designed for non-mathematics majors to expose students to the mathematics they will need to function in society. Topics include the development of problem-solving skills, the mathematics of finance, and the basics of probability and statistics. A student who has completed MAT1015 is not permitted to take MAT1005. Equivalent to MAT1009 (see Graduate & Continuing Education catalog).

MAT1006 Mathematics for Elementary School Teachers . . . . . 3 cr
(**PQ**: ACT Math score of 18–23 [SAT Math score of 430–540] or successful completion of MAT0008; see guidelines according to major on pages 41-42**)** A course designed for elementary education majors to expose students to the mathematics they will need in teaching elementary school mathematics. Topics include problem solving, number theory, real numbers, geometry, probability, statistics, algebra, sets, and mathematics of finance, fractions, decimals, and numeration systems.

MAT1015 College Algebra## . . . . . 4 cr
(**PQ**: 2 years of high school mathematics and qualification by ACT Math score of 18–23 [SAT Math score of 430–540], or consent of instructor; see guidelines according to major on pages 41-42**)** A thorough study of precalculus mathematics. Topics include a review of algebra and operations with real numbers, the study of equations and inequalities, functions and graphs, polynomials, exponential and logarithmic functions, and systems of equations. A student who has completed MAT1015 is not permitted to take MAT1005. MAT1015 is not intended to fulfill core curriculum requirements but is rather a prerequisite for additional mathematics courses, depending on program requirements. Offered through the Undergraduate Online Learning venue only.

MAT1126 Precalculus## . . . . . 4 cr
(**PQ**: C- or better in MAT1015 or ACT Math score of 24–27 [SAT Math score of 560–610]; see guidelines according to major on pages 41–42**)** A preparatory course intended for students who will take MAT2121 Calculus I. Topics include limits, functions (exponential, logarithmic, trigonometric), conic sections, polar coordinates, and other topics in analytical geometry. Offered through the Undergraduate Online Learning venue only.

MAT2005 Problem Solving . . . . . 2 cr
An introduction to mathematics and mathematics problem solving, including problem selection, problem solving strategies, the problem solving process, and contemporary applications of mathematics. Some emphasis on the importance of good oral and written communication skills and teamwork.

MAT2025 Calculus with Applications* . . . . . 4 cr
(**PQ:** ACT Math score of 24–27 [SAT Math score of 560–610]) A non-theoretical development of the limit, derivative, and integral concepts. Multivariable calculus and vectors. Emphasis on applications to biology, business, and other disciplines.

MAT2035 Quantitative Analysis . . . . . 4 cr
(**PQ:** C- or better in any college-level mathematics course or ACT Math score of 24 or above [SAT 560 or above] or C- or better in MAT0035) An introductory course covering topics in mathematics necessary for success in the business world. Topics include the mathematics of finance, linear programming, Bayes's Theorem, expected value, matrices, and game theory. Mathematical modeling is used to determine solutions for business problems.

MAT2055 Statistics . . . . . 4 cr
(**PQ**: ACT Math score of 24–27 recommended [SAT Math score of 560–610]; see further guidance on pages 41–42**)** Descriptive and inferential statistics include methods for describing data, binomial and normal probability distributions, tests of hypotheses, simple linear regression, analysis of variance, nonparametric techniques, two-sample testing, and contingency tables.

MAT2075 History of Mathematics . . . . . 2 cr
A course designed for mathematics teachers and others wanting to broaden their mathematical background; a brief synopsis of the history of mathematics from its earliest days to the present. Focus on topics related to elementary, middle and high school mathematics. An examination of key ideas, processes, and topics in mathematics that share common historical roots, which may include: numeration systems, trigonometry, solving equations, geometric perspectives, statistics, logic, and infinity.

MAT2121 Calculus and Analytic Geometry I# . . . . . 4 cr
(**PQ**: C- or better in MAT1126 or ACT Math score of 28 or above [SAT Math score of 630 or above]**)** The study of functions, limits, derivatives, applications of derivatives such as maxima/minima and related rates, antiderivatives, and differentials.

MAT2122 Calculus and Analytic Geometry II# . . . . . 4 cr
(**PQ**: C- or better in MAT2121**)** Continued study of calculus to include integration techniques, applications of definite integrals such as volumes of revolution, polar coordinates, series, sequences, power series, and Fourier series.

MAT2215 Linear Algebra . . . . . 3 cr
(**PQ**: C- or better in MAT2121 or consent of instructor**)** Systems of linear equations, the algebra of matrices, linear transformations, determinants, vector spaces, characteristic equations, and eigenvalues and eigenvectors.

MAT2216 Introduction to MATLAB. . . . . 1 cr
(**PQ:** C- or better in MAT2215) MATLAB is a powerful software package that was originally designed to solve large linear algebra projects. It has proved to be useful for many other engineering applications and is currently used to implement numerical algorithms for a wide range of applications. This course will provide an introduction to MATLAB suitable for applied mathematics and engineering majors.

MAT2225 Foundations of Mathematics . . . . . 4 cr
(**PQ**: C- or better in MAT2121 or MAT2005) Introductory treatment of the foundations of the mathematics and the concepts that are basic to mathematical knowledge. Development of the logical structure of mathematics in relation to set theory, the concept of a function, and transfinite numbers. The course also covers the history of mathematics.

MAT2226 Discrete Mathematics for Computer Science . . . . . 2 cr
(**PQ**: C- or better in MAT2121) An overview of the mathematics of the discrete processes of computers. Topics include the fundamentals of logic, Boolean algebra, formal grammars, and automaton.

MAT2825 Honors History and Philosophy of Mathematics* . . . . . 4 cr
(**PQ**: ACT Math score of 27 or above [SAT Math score of 610 or above] or consent of instructor) An examination of the history and philosophy of mathematics. Development and problem solving related to number theory, geometry, algebra, calculus, and probability in the context of Mesopotamian, Egyptian, Greek, Chinese, and European cultures. Absolute and fallible philosophies of mathematics, including an investigation of current Christian views on mathematics.

MAT3211 Abstract Algebra I*. . . . . 4 cr
(**PQ**: C- or better in MAT2225**)** An introduction to the basic concepts and theorems of the theories of groups, rings, and fields. Topics include rings; cyclic, noncyclic, and permutation groups; isomorphism and homomorphism theorems, cosets, normal subgroups, and the fundamental theorem of finite abelian groups.

MAT3212 Abstract Algebra II . . . . . 3 cr**
(**PQ**: C- or better in MAT3211**)** A continuation of MAT3211. Topics include ring homomorphisms, polynomial rings, factorization and divisibility, vector spaces, extension fields, and geometric constructions.

MAT3215 Number Theory . . . . . 2 cr**
(**PQ**: C- or better in MAT2225**)** Introduction to the elementary theory of numbers, including the fundamental theorem of arithmetic, prime numbers, congruence, diophantine equations, Fermat's Theorem, and quadratic reciprocity.

MAT3223 Calculus and Analytic Geometry III . . . . . 4 cr
(**PQ**: C- or better in MAT2122**)** Multivariate Calculus, including vectors in the plane and in space, functions of 2 and 3 variables, partial differentiation, double and triple integration in Cartesian, cylindrical and spherical coordinates. An introduction to differential equations.

MAT3225 Discrete Mathematics. . . . . 2 cr
(**PQ**: C- or better in MAT2225 or MAT2226) An overview of the mathematics of discrete processes. Topics include graphs, trees, linear programming, recursion, and algorithm analysis.

MAT3245 Modern Geometry . . . . . 4 cr
(**PQ**: C- or better in MAT2225**)** The study of Euclidean and non-Euclidean geometry from axiomatic, synthetic, analytic, and transformational approaches with emphases on modeling, inductive and deductive reasoning, and proof techniques.

MAT3251 Probability . . . . . 4 cr**
(**PQ**: C- or better in MAT3223**)** The mathematical foundations of probability. Topics include the axioms of probability, combinatorial methods, conditional probability, random variables, discrete and continuous and joint distributions. Calculus, some multivariate, is used extensively.

MAT3252 Calculus-based Statistics* . . . . . 4 cr
(**PQ**: C- or better in MAT2122 or consent of instructor**)** Descriptive and inferential statistics with applications in business, science, engineering, and the computing sciences. Topics include random sampling, estimation, hypothesis testing, linear regression, analysis of variance, and the use of computer packages to aid in statistical analysis. Calculus is used.

MAT3255 Advanced Concepts of Middle School Mathematics (Grades 5–8) . . . . . 4 cr
(**PQ**: completion of at least 3 MAT courses at the 2000 level or above) An in-depth, college-level study of the foundational structure underlying the major mathematical concepts taught in the middle grades. Content strands include number and operations, patterns and algebra, geometry and measurement, and data analysis and probability. Includes emphasis on key transitions in mathematical thinking and connection of middle level concepts to college math course content.

MAT3265 Advanced Concepts of High School Mathematics (Grades 9–12)* . . . . . 4 cr
(**PQ**: completion of at least 5 MAT courses at the 2000 level or above) A study of foundational secondary level mathematics concepts from an advanced, college-level perspective. Content strands include number system structures, functions and equations, integers and polynomials, congruence and symmetry, area and volume, trigonometry, data analysis and probability, and discrete math topics. Includes emphasis on extensions and generalizations, applications, problem solving, and connection of secondary level concepts to college math course content.

MAT3335 Ordinary Differential Equations . . . . . 4 cr
(**PQ**: C- or better in MAT2215 and MAT2122) Techniques for solving first, second, and higher order ordinary differential equations, including the method of the Laplace transformation. Applications in the physical sciences and engineering are emphasized.

MAT3835 Career Competencies Seminar . . . . . 1 cr
(**PQ**: minimum of junior standing) Orientation and preparation for an academic internship. To be completed the semester immediately prior to enrolling in the internship course offered by the academic department.

MAT4325 Advanced Calculus . . . . . 4 cr**
(**PQ**: C- or better in MAT3335) Functions, limits, metric spaces, compactness, connectedness, completeness, differentation, and sequences and series of functions. Riemann integral, functions of several variables, and Lebesgue integral. Improper integrals and uniform convergence.

MAT4327 Real Analysis with Topology . . . . . 4 cr**
(**PQ**: C- or better in MAT2122 and MAT2225) An introduction to real analysis, with emphasis on proving theorems. Topics covered include fundamental properties of the real number system, sets and mappings, topology of the real number line, limits of sequences, limits of functions, and continuity of functions.

MAT4335 Computer-aided Mathematics . . . . . 4 cr**
(**PQ**: C- or better in MAT3223) An exploratory course investigating the use of computers and computer algebra systems to aid in the study of mathematical problems. Topics are chosen from the fields of calculus, linear and abstract algebra, differential equations, and numerical analysis.

MAT4337 Mathematical Models and Applications* . . . . . 4 cr
(**PQ:** C- or better in MAT2035 or MAT2215) A survey course in choosing mathematical models and computer simulations to help explain and predict real-world phenomena. Mathematical models related to linear programming, integer programming, Markov chains, game theory, social choice theory, dynamic systems, and chaos theory will be explored. Particular problems in the social, life, physical, and management sciences are discussed, with models being developed as needed.

MAT4339 Numerical Analysis* . . . . . 4 cr
(**PQ:** C- or better in MAT2122 and MAT2215) Topics studied include solution of equations by interpolation and approximation, differentiation and integration, matrices and systems of equations, and solution of differential equations.

MAT4845 Senior Project . . . . . 2 cr
(**PQ**: ENG2205 or ENG2825, ECE passed, SPE1075 or SPE1825, and senior standing) A capstone experience for mathematics majors in their senior year. This will provide an overview of all mathematics with attention to its history and philosophy. Each student does an in-depth, guided project, culminating in both a written report and an oral presentation.

MAT4995 Mathematics Internship . . . . . 1–4 cr
(**PQ**: MAT3835 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in mathematics. **Note:** See page 27 for note regarding internships.

Ministry

MIN1005 Introduction to Ministry# . . . . . 2 cr
This course is designed to introduce the student to ministry. The student connects with a local ministry while learning about his/her unique giftedness and ability to serve God. The student will learn about the purposes of the church, wrestle with the cultural influences on ministry, and begin to explore God's call on their lives.

MIN1641, 1642, 1643, 1644 Christian Service I, II, III, IV . . . 1 cr each
(**PQ:** consent of instructor; internship registration form needed) Practical experience in a local church or Christian organization. Designed to encourage student involvement in Christian service. Each credit requires ministry involvement totaling at least 50 hours per credit.

MIN2105 Theological and Philosophical Foundations of Ministry . . . 2 cr
(**PQ:** MIN1005) This course examines the theological and philosophical foundations of ministry. It includes the study of theological, philosophical, historical, cultural, psychological, and educational foundational concepts that inform ministry today. The student will formulate a provisional but personal theology and philosophy of ministry to guide his/her present and future service in the Church.

MIN2106 Relationships . . . . . 3 cr
This course will examine biblical and theological foundations, as well as social science research, for healthy relationships. Focus will be given to the process of relationships: friendship, dating, courtship, engagement, and marriage. Additional issues include singleness, intimacy in relationships, forgiveness, gender issues, sexual intimacy and integrity in marriage, maintaining marital communications, and finances in marriage. Time is provided for an expositional study of Song of Solomon.

MIN2216 Teaching Methods in Ministry . . . . . 4 cr
(**PQ:** SPE1075 or SPE1825, C- or better in MIN1005, and BIA2115 or BIA2825) A theoretical and practical approach to giving students experience in the development and practice- teaching of biblical lessons. The course will address contemporary methods, scope and sequence, and curriculum analysis and evaluation, with special attention to the effect of gender and culture on the teaching/ learning process.

MIN3110/5110 Self-awareness in Leadership. . . . . 2 cr
This course is designed to help students become more aware of their calling, strengths, and growth areas. Personality, spiritual gifts, and general biblical knowledge, spiritual growth and family of origin issues will be assessed.

MIN3205 Human Sexuality. . . . . 4 cr
This course will examine biblical and theological foundations, as well as social science research, for human sexuality. A holistic view of human sexuality will be explored through the examination of sociological, biological, psychological, and spiritual aspects of human nature and behavior. Biblical principles are discovered and applied to the development of individual sexual values and sexual discipline. The role of the church in supporting healthy sexuality will be considered.

MIN3216 Leadership in Ministry. . . . . 4 cr
(**PQ:** ECE passed, and CFM2205 or EAM2205 or PAS2205 or YOU2205 or ANT2045, C- or better in MIN2216, and ENG2205 or ENG2825, and MIN2105 or COM3107 or COM3345) A study of the principles and practices of leadership in the local church and other Christian ministry settings. The course includes a study of Biblical leaders, leadership styles, management principles, staff relationships, utilization of lay leadership, training techniques, spiritual gifts, man and woman in ministry, perils in leadership, and change and conflict, with special attention to the effect of culture on the selection and practice of Christian leadership.

MIN3226 Family Studies . . . . . 3 cr
(**PQ:** MIN2106) This course examines the family as a social/cultural unit with emphasis on parental interaction with the developing child. Family structure and dynamics from the perspective of theology and family science theory will be studied. Focus will be on multidisciplinary theories of the family dynamics across the life span. Consideration will be given to biblical and theological foundations, societal influences, parenting, family structure, family worship, family stress & coping, and domestic violence. Students write summaries of current professional articles using APA style.

MIN3227 Camping and Ministry *. . . . . 2 cr
A study of the role of camping ministries in the light of Christian growth. Consideration is given to theological, philosophical, historical foundations in camping ministry as well as the application of camping ministry principles to the organizational responsibilities and operational aspects of Christian camping ministry. Emphasis is also placed on the role of camping ministries and retreats in the life of the local church.

MIN3231 Introduction to Biblical Counseling# . . . . . 4 cr
A study of the typical counseling situations which are faced in the ministry setting. Emphasis is on methods and techniques for counseling people in crisis from all age groups. Guidance is given in the counseling of lay leadership, families in crisis, and the handling of abuse cases. Consideration is given to the legal, ethical, and practical implications of counseling.

MIN3232 Practice of Biblical Counseling.. . . . . 2 cr
(**PQ:** MIN3231) This course is the lab experience of MIN3231. It is a case study approach to dealing with typical counseling situations encountered in ministering to children, youth, and adults in churches and parachurch organizations. Principles and techniques of counseling are developed through role-playing, simulations, and class discussions.

MIN3603, 3604 Ministry Experience I, II . . . . . 2 cr each
(**PQ:** junior standing; BIA2115, MIN1005, MIN2216, and consent of department chairperson) Supervised experience in a Bible teaching ministry at home or abroad. Requires ministry involvement totaling at least 50 hours per credit in the area of the student's major.

MIN4991, 4992 Ministry Internship I, II.. . . . . 2 cr each
(**PQ:** senior standing; the foundations course for each major and MIN2216, MIN3205, MIN3216, MIN3231; and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised experience in ministry locally or abroad which focuses upon leadership and counseling. Internship requires 50 hours of ministry per credit. **Note:** See page 27 for note regarding internships.

Music - Applied

CLASS APPLIED

MUP1001 Class Voice . . . . . 1 cr
A study of basic solo vocal techniques, including breath control, proper tone production, diction and stage presence, as well as psychological aspects, taught in a class setting. Course may be repeated.

MUP1011 Class Piano I . . . . . 1 cr
(**PQ**: Music major or consent of instructor**)** Designed for students with little or no piano experience. Activities include developing basic skills in reading, theory, harmonization, transposition, technique, and performance.

MUP1012 Class Piano II . . . . . 1 cr
(**PQ**: MUP1011 with a grade of C- or better or taking the piano placement test and testing out of MUP1011) Activities build on basic skills developed in Class Piano I.

MUP1051 Class Guitar I . . . . . 1 cr**

MUP1052 Class Guitar II . . . . . 1 cr**
(**PQ**: MUP1051 or consent of instructor**)**

MUP2011 Class Piano III . . . . . 1 cr
(**PQ**: MUP1012 with a grade of C- or better or taking the piano placement test and testing out of MUP1012) Continuation of MUP1012.

MUP2012 Class Piano IV . . . . . 1 cr
(**PQ**: MUP2011 with a grade of C- or better or taking the piano placement test and testing out of MUP2011) Continuation of MUP2011.

MUP3215 Keyboard and Accompanying Techniques* . . . . . 4 cr
(**PQ**: MTC2112 or consent of instructor) An overview of keyboard skills including accompanying, score reading, transposition, improvisation, chart reading, and figured bass realization. Study and performance of a representative selection of music from the collaborative piano repertoire.

INDIVIDUAL APPLIED

A separate lesson fee will be assessed per credit. One credit (30-minute lesson); two credits (60-minute lesson). A signed private study registration form is required for permission to register in each semester of study.

Note: MUP2100 - MUP3160 and MUP4100 - MUP4160 are designated as repeatable unless designated otherwise. See page 31.

Applied numbers:
21XX: All freshmen and sophomore music majors; all minor, secondary, and elective lessons.
31XX: Junior Performance majors; junior and senior Music (B.A.) and Music Education majors. (**PQ**: successful completion of the sophomore interview; additional prerequisites for vocal majors.)
41XX: Senior Performance majors who have completed their junior recital.

MUP2100 Private Voice - Major . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private, individual voice lessons at the lower division music major level for vocal performance (B.Mus.), Vocal Music Education (B.M.E), Music (B.A.), and Music (B.S., Music Ministry emphasis) majors. Required Vocal Lab class meets weekly with studio teacher.

MUP3100 Private Voice - Major . . . . . 1–2 cr
(**PQ**: successful completion of the sophomore interview, passing of vocal proficiency requirements and completion of MUS3101 and MUS3102 with a grade of C- or above) Private, individual voice lessons at the upper division level of study required for vocal performance (B.Mus.) and Vocal Music Education (B.M.E.) majors. Optional study level for vocally proficient Music (B.A.) and Music (B.S., Music Ministry emphasis) majors. Vocal study includes preparation toward a Junior (B.Mus.) or Senior (B.M.E.) Recital. Required Vocal Lab class meets weekly with studio teacher.

MUP4100 Private Voice - Major . . . . . 1–2 cr
(**PQ**: completion of junior recital as a Vocal Performance [B.Mus.] major). Private, individual voice lessons at the upper division level of study required for Vocal Performance (B.Mus.) majors only. Vocal study includes preparation toward the Senior Recital. Required Vocal Lab class meets weekly with studio teacher.

MUP2105 Private Voice - Minor . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private, individual voice lessons at the lower division level of study required for Music minors whose principal instrument is voice.

MUP2106 Private Voice - Elective . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private, individual voice lessons as a non-music major elective student. Optional study level for vocal music majors past degree requirements.

MUP2107 Private Voice - Secondary . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private, individual voice lessons as a secondary instrument for music majors, including piano majors pursuing a B.M.E. degree and licensure in vocal and classroom music. Weekly Vocal Lab class attendance is required for B.M.E. Piano majors with Vocal Licensure.

MUP2110 Private Piano - Major . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private piano lessons at the lower division music major level for B.M., B.M.E. (piano as primary instrument), B.S. and B.A. music majors. Required piano lab class meets weekly with the studio teacher.

MUP3110 Private Piano - Major . . . . . 1–2 cr
(**PQ**: successful completion of the sophomore interview and piano proficiency requirements) Private piano lessons at the upper division level of study for B.M. and B.M.E. (piano as primary instrument) majors. Optional for proficient B.A. and B.S. majors. Study includes preparation toward a junior (B.M.) or senior (B.M.E.) half recital. Required piano lab meets weekly with the studio teacher.

MUP4110 Private Piano - Major . . . . . 1–2 cr
(**PQ**: completion of junior recital as a B.M. major) Private piano lessons at the upper division level of study for B.M. majors only. Study includes preparation toward a senior recital. Required piano lab meets weekly with the studio teacher.

MUP2115 Private Piano - Minor . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private piano lessons at the lower division of study for Music minors whose principal instrument is piano. Attendance at six piano labs per semester is required.

MUP2116 Private Piano - Elective . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private piano lessons as a non music major elective student. Optional study for music majors past degree requirements.

MUP2117 Private Piano - Secondary . . . . . 1–2 cr
(**PQ**: audition for first semester of study) Private piano lessons as a secondary instrument for music majors wishing to further develop their piano skills and/or preparing to pass music major piano proficiency requirements.

MUP2120 Private Organ - Major . . . . . 1-2 cr
MUP3120 Private Organ - Major . . . . . 1-2 cr
MUP4120 Private Organ - Major . . . . . 1-2 cr
MUP2125 Private Organ - Minor . . . . . 1-2 cr
MUP2126 Private Organ - Elective . . . . . 1-2 cr
MUP2127 Private Organ - Secondary . . . . . 1-2 cr

MUP2130 Private String - Major . . . . . 1-2 cr
MUP2140 Private Woodwind - Major . . . . . 1-2 cr
MUP2150 Private Guitar - Major . . . . . 1-2 cr
MUP2170 Private Brass - Major . . . . . 1-2 cr
MUP2180 Private Percussion - Major . . . . . 1-2 cr
MUP2190 Private Harp - Major . . . . . 1-2 cr
(**PQ**: acceptance by audition as a music major) Primarily lower division (2000 level, all degrees) repertoire and study materials at the instructor's discretion. Wind/String Lab, GSR & Jury required.

MUP3130 Private String - Major . . . . . 1-2 cr
MUP3140 Private Woodwind - Major . . . . . 1-2 cr
MUP3150 Private Guitar - Major . . . . . 1-2 cr
MUP3170 Private Brass - Major . . . . . 1-2 cr
MUP3180 Private Percussion - Major . . . . . 1-2 cr
MUP3190 Private Harp - Major . . . . . 1-2 cr
(**PQ**: passing the sophomore interview jury with a grade of B [for B.A., B.S., B.M.E. degrees] or B+ [for B.Mus. degree]) Primarily upper division (3000/4000 level) repertoire and study materials at the instructor's discretion. Wind/String Lab, GSR & Jury required.

MUP4130 Private String - Major . . . . . 1-2 cr
MUP4140 Private Woodwind - Major . . . . . 1-2 cr
MUP4150 Private Guitar - Major . . . . . 1-2 cr
MUP4170 Private Brass - Major . . . . . 1-2 cr
MUP4180 Private Percussion - Major . . . . . 1-2 cr
MUP4190 Private Harp - Major . . . . . 1-2 cr
(**PQ**: Successful completion of a junior recital [for B.M. degree]) Study includes preparation for the full senior recital MUP4696. Wind Lab required. GSR & jury required only if no recital that semester.

MUP2135 Private String - Minor . . . . . 1-2 cr
MUP2145 Private Woodwind - Minor . . . . . 1-2 cr
MUP2155 Private Guitar - Minor . . . . . 1-2 cr
MUP2175 Private Brass - Minor . . . . . 1-2 cr
MUP2185 Private Percussion - Minor . . . . . 1-2 cr
MUP2195 Private Harp - Minor . . . . . 1-2 cr
(**PQ**: audition with area coordinator) Primarily lower division. GSR optional at instructor's discretion. Wind/String Lab optional.

MUP2136 Private String - Elective . . . . . 1-2 cr
MUP2146 Private Woodwind - Elective . . . . . 1-2 cr
MUP2156 Private Guitar - Elective . . . . . 1-2 cr
MUP2176 Private Brass - Elective . . . . . 1-2 cr
MUP2186 Private Percussion - Elective . . . . . 1-2 cr
MUP2196 Private Harp - Elective . . . . . 1-2 cr
(**PQ**: interview with area coordinator) For study by non-majors, primarily lower division (2000-level) repertoire and study materials at the instructor's discretion. GSR, Jury and Wind/String Lab optional.

MUP2137 Private String - Secondary . . . . . 1-2 cr
MUP2147 Private Woodwind - Secondary . . . . . 1-2 cr
MUP2157 Private Guitar - Secondary . . . . . 1-2 cr
MUP2177 Private Brass - Secondary . . . . . 1-2 cr
MUP2187 Private Percussion - Secondary . . . . . 1-2 cr
MUP2197 Private Harp - Secondary . . . . . 1-2 cr
(**PQ**: acceptance as a music major, interview with area Coordinator) For majors studying an instrument that is not the student's primary performance area; GSR & Jury optional at instructor's discretion, Wind/String Lab optional.

MUP2160 Private Composition - Major . . . . . 1–2 cr
(**PQ**: B- or better in MTC1000, MTC1001, MTC1003, MTC2004, and MTC2112) Original work drawn from ternary, theme and variations, chaconne, and passacaglia forms with a focus on melodic and motivic construction. Initial works will be written for one or two instruments. The second semester of study at this level will include the use of more intricate forms and the composition of small ensemble works. Required Composition Lab meets weekly with composition teacher.

MUP2165 Private Composition - Elective . . . . . 1–2 cr
(**PQ**: B- or better in MTC1000, MTC1001, MTC1003, MTC2004, and MTC2112) Private, individual composition lessons for non-music majors and music majors with other proficiencies. Optional level of study for composition majors past degree requirements.

MUP3160 Private Composition - Major . . . . . 1–2 cr
(**PQ:** C- or better in MUP2160 and successful completion of the sophomore interview). Work on an individual basis with multi-movement forms, and larger ensembles. Required Composition Lab meets weekly with composition teacher.

MUP4160 Private Composition - Major . . . . . 1–2 cr
(**PQ:** C- or better in MUP3160, MTC4207, successful completion of the sophomore interview, or consent of instructor). Continuation of MUP3160, with the addition of works for chamber orchestra and full orchestra. Focus of study at this level will be the preparation of works for the senior recital. Required composition lab meets weekly with composition teacher.

MUP3695 Junior Recital - Half . . . . . 0 cr
(**PQ:** successful completion of the sophomore interview, completion of Piano Proficiency, and approval of faculty; concurrent registration in private lessons on major instrument) Half recital for juniors in a Bachelor of Music Performance major.

MUP4695 Senior Recital - Half . . . . . 0 cr
(**PQ:** successful completion of the sophomore interview, completion of Piano Proficiency, and approval of faculty; concurrent registration in private lessons on major instrument) Half recital for seniors in a Bachelor of Music Education major.

MUP4696 Senior Recital - Full . . . . . 1 cr
(**PQ:** successful completion of the sophomore interview, completion of Piano Proficiency, and approval of faculty; concurrent registration in private lessons on major instrument) Full recital for seniors in a Bachelor of Music major.

Music - Ensembles

Note: Courses in this section are designated as repeatable. See page 31.

MEN2001, 4001 Northwestern Choir . . . . . 0–1 cr
MEN2002, 4002 Varsity Men's Chorus . . . . . 0–1 cr
MEN2003, 4003 Women's Chorale . . . . . 0–1 cr
MEN2004, 4004 Chamber Singers . . . . . 0–1 cr

MEN2005, 4005 Opera Workshop . . . . . 0–1 cr
(**PQ:** consent of instructor) Introduction to basic concepts of singing on stage through exercises in visual expression, stage movement, and characterization. Preparation and performance of operatic arias, choruses, scenes, and/or complete operas.

MEN2015, 4015 Worship Team . . . . . 0–1 cr
Ensemble participation.

MEN2030, 4030 Orchestra - Strings . . . . . 0–1 cr
MEN2031, 4031 Orchestra - Winds . . . . . 0–1 cr
MEN2032, 4032 String Ensemble . . . . . 0–1 cr
MEN2040, 4040 Symphonic Band . . . . . 0–1 cr
MEN2041, 4041 Jazz Ensemble . . . . . 0–1 cr
MEN2042, 4042 Chamber Winds . . . . . 0–1 cr
MEN2043, 4043 Woodwind Ensemble . . . . . 0–1 cr
MEN2044, 4044 Brass Ensemble . . . . . 0–1 cr
MEN2045, 4045 Percussion Ensemble . . . . . 0–1 cr
MEN2046, 4046 Flute Choir . . . . . 0–1 cr
MEN2047, 4047 Jazz Combo . . . . . 0–1 cr
MEN2070, 4070 Handbell Choir . . . . . 0–1 cr

Music - General

MUS1000 Music Hour . . . . . 0 cr
A weekly assembly of music majors and minors for the purpose of student performance or discussion of topics of significance to musicians. On campus and off-campus concert attendance is required. **Note:** This course is designated as repeatable. See page 31.

MUS1075 Introduction to Music# . . . . . 2 cr
A basic survey course designed to increase the interest in and understanding of music as an art form.

MUS1077 Beginning Improvisation . . . . . 2 cr**
A practical study of basic jazz improvisational techniques.

MUS1825 Honors Introduction to Music . . . . . 2 cr
(**PQ**: ACT composite score of 27 or above [SAT score of 1210 or above] or consent of instructor) Designed for the non-music and music student alike to increase the interest in and understanding of music as an art form. This honors course will include more in-class discussion of issues such as the definition of music, critical issues in music, and Christian views of music.

MUS2176 Fundamentals of Conducting . . . . . 2 cr
(**PQ**: MTC2112) Technique, practices, and principles of conducting, including hand and baton technique, metric patterns, tempo, style, dynamics, terminology study, and preparation of the score. Practical experience with performing organizations is stressed.

MUS3101 Diction for Singers I . . . . . 1 cr
(**PQ**: two semesters of private voice lessons as a major or consent of instructor) One class and one lab per week. An introduction to the study and application of the International Phonetic Alphabet (IPA) and its guidelines for usage in singing Italian and English vocal literature. Practical application will occur in the lab class through individual and group coaching of singing and speaking.

MUS3102 Diction for Singers II . . . . . 1 cr
(**PQ**: C- or better in MUS3101 or consent of instructor) One class and one lab per week. A continuation of the study and application of the International Phonetic Alphabet (IPA) and its guidelines for usage in singing German and French vocal literature. Practical application will occur in the lab class through individual and group coaching of singing and speaking.

MUS3206 Advanced Choral Conducting . . . . . 2 cr
(**PQ**: MUS2176 and successful completion of the sophomore interview) A continuation of conducting study with emphasis on expressive elements, score study, and rehearsal techniques for the choral conductor.

MUS3215 Piano Pedagogy* . . . . . 4 cr
(**PQ**: sophomore music major or consent of instructor) Procedures for teaching keyboard fundamentals and musicianship for private and class lessons, including a survey and analysis of current developmental psychologies, teaching methods, and materials for beginning students. Includes practical experience in individual piano teaching.

MUS3246 Advanced Instrumental Conducting . . . . . 2 cr
(**PQ**: MUS2176 and successful completion of the sophomore interview) A continuation of the study of conducting with emphasis on band and orchestral literature and styles.

MUS4401 Vocal Pedagogy I . . . . . 2 cr
(**PQ**: MUP3100 and successful completion of the sophomore interview, or consent of instructor) A study of the basics of vocal production for singing and speaking: respiration, phonation, registration, resonation, articulation, and coordination. Anatomy and physiology of the vocal mechanism. Mind-body integration concepts. Introductory information for healthy and efficient singing and speaking. Includes some out-of-class observations. Prerequisite for registration in MUS4401 for B.M.E. Piano Majors with Voice Emphasis is the completion of the minimum vocal proficiency requirements.

MUS4402 Vocal Pedagogy II . . . . . 2 cr
(**PQ**: MUS4401 or concurrently enrolled) Extended study of topics in Vocal Pedagogy I with special emphasis on practical applications for the teaching of singers. Diagnosis and correction of vocal problems. Philosophy and psychology of singing and teaching. Life-span voice teaching including the child, changing and adolescent voices. Principles of vocal health in speaking and singing, including related vocal disorders and their treatment. Pedagogical principles, methods and resources for teaching singing. Includes supervised individual voice teaching. Practical information for setting up a private vocal studio. Includes out-of-class observations.

MUS4841 Senior Project . . . . . 1-2 cr
(**PQ:** successful completion of the sophomore interview and piano proficiency, and consent of faculty supervisor) A capstone experience for the B.A. Music degree. In cooperation with the faculty supervisor, the student will propose and complete a project demonstrating knowledge and skills acquired in their coursework and/or looking ahead to potential career opportunities.

MUS4995 Music Internship . . . . . 1-2 cr
(**PQ**: successful completion of the sophomore interview and piano proficiency, and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised experience in a real-world setting requiring a variety of skills, including, but not limited to, organizational, administrative, technical, and musical abilities. 40 hours of on-site work is required per credit. **Note:** See page 26 for note regarding internships.

Music History

MUH3101 Music History I - Medieval, Renaissance, Baroque . . . . . 4 cr
(**PQ**: MTC2112, ENG2205 or ENG2825, and ECE passed, or consent of instructor**)** A study of the music of Western civilization traced from its primitive origins through the Renaissance to the Baroque period, ending with the music of J.S. Bach.

MUH3102 Music History II - Classical, Romantic, Modern . . . . . 4 cr
(**PQ**: MTC2112, ENG2205 or ENG2825, and ECE passed, or consent of instructor**)** A study of the music of Western civilization from the Rococo period to the present day, with special attention given to the major musical forms in vocal and instrumental music as demonstrated in the works of the major composers.

MUH3105 American Music . . . . . 2 cr**
(**PQ**: MTC2112) A survey of the roots and development of American music from European, African, and Native American sources. Both popular and art forms are studied.

MUH3106 Music in World Cultures. . . . . 2 cr
An introductory study of cultural traditions, belief systems, and practices of world cultures as approached through the study and analysis of the music of ethnic groups. Various worldviews are examined through comparison with biblical and theological concepts.

Music in the Church

Directed studies are available. See page 26.

MCH3006 Music Ministry Methods . . . . . 4 cr
A study of the purposes, methods, and materials used in church music ministry. Both vocal and instrumental areas are studied in detail. Worship planning and leading are major components of the course.

MCH3007 History of Music in the Church . . . . . 4 cr
An historical survey of church music from the Old Testament to the present, including Jewish temple music, Gregorian chant, hymns, Renaissance polyphony, and music of the several Protestant traditions from the Reformation to the present. Through reading, discussion, and research, questions of changing musical styles and the function of worship music in different historical and cultural settings are explored.

MCH3215 Foundations of Music Ministry . . . . . 2 cr
(**PQ:** MIN1005 and successful completion of the sophomore interview or Department Chair Approval) An overview of traditional and contemporary worship forms and styles. Students will develop their own theology of worship and philosophy of music ministry. Course includes practicum experience in local churches.

MCH3216 Technology in Worship. . . . . 2 cr
(**PQ:** successful completion of the sophomore interview or Department Chair Approval) The use of technology (lights, audio, video, electronic equipment) in worship. The course includes practicum experience in local churches.

MCH4215 Music in Ministry. . . . . 4 cr
(**PQ:** successful completion of the sophomore interview or Department Chair Approval) The theory, methods, and techniques of musical preparation and presentation for ministry. Course will include techniques for working with traditional and contemporary ensembles and an overview of music theory related to contemporary worship, basic arranging, and improvisation. Course includes practicum experience in local churches.

MCH4216 The Music Minister . . . . . 4 cr
(**PQ:** successful completion of the sophomore interview or Department Chair Approval) Leadership, administration, budgeting, worship planning, and incorporating the other arts in worship. Course includes practicum experience in local churches.

MCH4995 Music Ministry Internship. . . . . 2 cr
(**PQ**: MCH4215, successful completion of the sophomore interview and piano proficiency, and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required.)Supervised experience in a local church music ministry setting that includes experience in worship planning/leading as well as administrative and technical experiences. 80 hours of ministry work required.

Music Literature

MUL4301 Solo Vocal Literature I-Song . . . . . 2 cr
(**PQ**: successful completion of the sophomore interview or consent of instructor**)** A survey of art song literature and selected vocal chamber music from the 17th century through the 21st century.

MUL4302 Solo Vocal Literature II-Aria* . . . . . 2 cr
(**PQ**: C- or better in MUL4301 or consent of instructor**)** A selective survey of vocal aria literature from the opera and oratorio/concert repertoire in all voice categories. Study focuses on the17th century through the 21st century, with a special emphasis for each student on arias in his/her vocal classification.

MUL4305 Choral Literature. . . . . 2 cr**
(**PQ**: MUH3101, MUH3102, and successful completion of the sophomore interview, or consent of instructor**)** A survey of sacred and secular literature for choruses from the Renaissance through the 21st century.

MUL4315 Piano Literature* . . . . . 4 cr
(**PQ**: MUH3101, MUH3102, and successful completion of the sophomore interview, or consent of instructor**)** A study of the literature for piano, surveying the repertoire of the late 17th century through the 21st century.

MUL4345 Instrumental Literature-Major Instrument . . . . . 2 cr**
(**PQ**: MUH3101, MUH3102, and successful completion of the sophomore interview, or consent of instructor**)** A study of available literature for a student's major instrument. The study includes literature from all grade levels and historical periods.

MUL4346 Symphonic Literature . . . . . 2 cr**
(**PQ**: MUH3101, MUH3102, and successful completion of the sophomore interview, or consent of instructor) A survey of symphonic literature from the Baroque to the present.

Music Theory & Composition

MTC1000 Music Theory Fundamentals . . . . . 1 cr
(To be taken concurrently with MTC1001 and MTC1003.**)** This course is designed for the music major or minor who has never studied music theory. Included will be the basics of key signatures, triads, scales, rhythm, meters, and intervals. Credit for the course may be achieved through the Music Theory Entrance Exam.

MTC1001 Music Theory I. . . . . 2 cr
(**PQ**: Passing of the Music Theory Entrance Exam or completion of MTC1000 with a grade of C- or better. To be taken concurrently with MTC1000 and MTC1003.) A study of the basic acoustics of sound and the basic materials of music, including intervals, triads, seventh chords, non-harmonic tones, and modes. Basic harmonic analysis is started using hymns and piano pieces.

MTC1003 Sight Singing and Ear Training I . . . . . 1 cr
(**PQ:** To be taken concurrently with MTC1000 and MTC1001.) This course parallels MTC1001 from an aural standpoint. "Inner hearing" will be emphasized.

MTC1005 Music Technology . . . . . 2 cr
Various applications of the computer are explored: software for education, music notation, interactive CD-ROM programming, and Smart Music Studio.

MTC2004 Sight Singing and Ear Training II. . . . . 1 cr
(**PQ**: C- or better in MTC1003; to be taken concurrently with MTC2112**)** This course parallels MTC2112 from an aural standpoint with the addition of two- and three-voice dictation and an introduction to chord progressions.

MTC2112 Music Theory II . . . . . 3 cr
(**PQ**: C- or better in MTC1001; to be taken concurrently with MTC2004**)** A continuation of MTC1001 with a basic understanding of the orchestral score and its analysis, instrument transpositions, higher tertian chords, modulation, and secondary functions, as well as more advanced analysis.

MTC3101 Music Theory III. . . . . 3 cr
(**PQ**: C- or better in MTC2112.) A study of chromaticism, including modulatory techniques, modal mixture, altered chords, binary; ternary and sonata allegro forms; the study of Bach chorales; enharmonic spellings and modulations, and transposing instruments. Students compose as well as analyze music.

MTC3102 Music Theory IV. . . . . 3 cr
(**PQ**: C- or better in MTC3101; to be taken concurrently with MTC3104**)** A study of compositional practices of the late 19th century to the present. Students research, perform, and present a paper on a work from the 20th/21st century. Also, students compose two pieces to be rehearsed and performed for the class.

MTC3103 Sight Singing and Ear Training III . . . . . 1 cr
(**PQ**: C- or better in MTC2004.**)** A laboratory class including solfège singing of chromatic music, rhythmic dictation, melodic and harmonic dictation with modulations, recognition of seventh chords, syncopation, modes, and atonal sight singing.

MTC3104 Sight Singing and Ear Training IV . . . . . 1 cr
(**PQ**: C- or better in MTC3103; to be taken concurrently with MTC3102**)** A laboratory class concentrating on atonal sight singing, changing meters, and nonfunctional harmonic progressions, as well as continued work on speed in sight-reading music of all styles.

MTC4205 Form and Analysis* . . . . . 2 cr
(**PQ**: C- or better in MTC3102 and successful completion of the sophomore interview) A survey of standard analytical techniques applied to major forms from the Renaissance through the Modern period.

MTC4206 Counterpoint* . . . . . 2 cr
(**PQ**: C- or better in MTC3102 and successful completion of the sophomore interview) Study of 18th century counterpoint through composition and analysis of invention, canon, fugue, and related contrapuntal forms.

MTC4207 Orchestration* . . . . . 2 cr
(**PQ**: C- or better in MTC3101 and successful completion of the sophomore interview) Study of the characteristics and capabilities of orchestral instruments as applied to composing, orchestrating, and arranging.

MTC4208 Twentieth Century Techniques*. . . . . 2 cr
(**PQ**: C- or better in MTC3102 and successful completion of the sophomore interview) An introduction to the standard techniques of analysis of 20th century music, including set theory (Forte) and Schenkerian analysis. Also included is an overview of the century's new compositional techniques such as sound mass, microtones, indeterminacy, minimalism, and mixed media, as well as new uses of instruments (multiphonics, prepared piano, etc.) and electronic music.

MTC4209 Choral Arranging* . . . . . 2 cr
(**PQ**: C- or better in MTC3101 and successful completion of the sophomore interview) A study of the technique of arranging music for voices.

Nursing

NUR2215 Professional Nursing: Called To Serve . . . . . 2 cr
This course introduces the student to the concept of professional nursing as a Christ-centered calling. The mission and philosophy of University of Northwestern Department of Nursing will be presented. The course investigates relationship building necessary for collaborative practice with interprofessional healthcare team members. Skills and abilities characteristic of a professional nurse generalist will be emphasized.

NUR2216 Assessment and Communication Strategies for Service . . 4 cr
This course develops foundational health assessment and communication skills related to individuals within the home, church, community, and world. Service to the well-adult population will be emphasized.

NUR2217 Serving Through Interprofessional Collaboration . . . . . 2 cr
This course introduces students to the defining characteristics of interprofessional practice, incorporating biblically based Christian values. It focuses on nursing as a member of the interprofessional collaborative team. Emphasis is on communication, networking, and team building.

NUR2218 Foundational Adult Care Services . . . . . 6 cr
This course introduces the hands-on application of the biblically based Christian worldview to professional practice. Development of foundational nursing skills related to serving adult individuals and families across the continuum of healthcare environments will be emphasized.

NUR3215 Pharmacology and Therapeutic Services . . . . . 3 cr
This course will introduce pharmacology principles and therapeutic modalities into nursing ministry and services. It will emphasize pharmacological agents and their effects on body systems and medication administration.

NUR3216 Advanced Adult Care Services. . . . . 8 cr
Development of advanced nursing skills related to serving adult individuals and families across the continuum of healthcare environments will be emphasized within the biblically based Christian worldview.

NUR3315 Infant, Child, and Family Care Services . . . . . 6 cr
This course incorporates Christ-centered, biblically based principles while focusing on nursing ministry and service to infants, children, and families within the home, church, community, and world. Development of skills required for promoting health, preventing disease, and addressing unmet healthcare needs of infants, children, and families will be emphasized.

NUR3316 Psychiatric–Mental Health Care Services . . . . . 3 cr
An overview is presented of psychiatric–mental health nursing throughout the lifespan to individuals, families, groups, communities, and populations across the continuum of healthcare environments. Synthesis of knowledge from biblical truths, liberal arts, the sciences, and evidence-based practice will be incorporated into ministry and services to clients with psychiatric–mental health care needs.

NUR3317 Serving Transcultural Populations . . . . . 4 cr
This course incorporates a cultural-assessment model to identify specific components in various populations to provide unique and quality nursing ministry and service. Emphasis is on providing students opportunities to examine their own Christian values and ethics in relationship to socio-cultural variables. It includes an immersion experience in a culture different from the student's culture.

NUR4315 Evidence-Based Services . . . . . 3 cr
This course provides an understanding of the research process that undergirds evidence-based services. It will explore underlying worldviews that have led to the development of research approaches. It will include basic elements of research design, sampling, data collection, and analysis. Students will critique a research article, develop a research proposal, and complete an evidence-based practice paper.

NUR4316 Service Leadership and Management . . . . . 2 cr
This course will provide a foundation of concepts and skills in service leadership and management in preparation of graduates for entry-level, beginning-professional nursing practice. Emphasis will be on managing resources, interpersonal and interprofessional communication skills, and servant-leadership principles.

NUR4317 Community and Population-Based Care Services . . . . . 4 cr
Explore community-and population-based care with an emphasis on health promotion and disease prevention within a biblically based Christian worldview. Provide nursing ministry and services using in-person or virtual-delivery systems. This course incorporates a community- based clinical-immersion experience.

NUR4318 Synthesis of Care Services . . . . . 3 cr
This course will focus on synthesis of nursing ministry and services from a biblically based Christian worldview. It will include analysis of one's own abilities and skills to work as a competent nurse generalist. Emphasis will be on clinical immersion.

NUR4319 NCLEX-RN Preparation for Success . . . . . 3 cr
This course assists students with preparation (emotional, physically, spiritually, and academically) for taking the NCLEX-RN examination required for licensure as a registered nurse.

Off-Campus Programs

American Studies Program

Since 1976, the American Studies Program has served as an experiential learning laboratory for students committed to connecting their faith to public affairs. Nearly 500 of ASP's 3,000+ alumni have returned to work in the DC metro area in a variety of professional fields—private and public, for-profit and non-profit. Each student enrolls in the program's two practicum courses: Internship and Topics in Leadership & Vocation. Students have the option of enrolling in a one-credit Professional Mentorship course. In addition, students apply to either the Global Development Enterprise track or the Public Policy Initiatives track. The Global Development track focuses on partnership initiatives taken by leaders in commercial, governmental and non-governmental organizations as they explore the impact they can achieve by collaborating on issues of sustainable development worldwide. The Public Policy track equips and supports students in their analysis of a pressing public policy issue. Each student produces original research by engaging area experts and practitioners off-site and in the classroom as they investigate the local, national and global factors that influence policy-making in Washington, DC. ASP students earn 15–16 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

ASP3712 Topics in Leadership & Vocation . . . . . 3 cr
ASP3719 Internship . . . . . 6 cr
ASP3718 Professional Mentorship . . . . . 1 cr

Select one of the following tracks:

Global Development Track

ASP3735 Entrepreneurship & Global Development Research Seminar . . . . . 3 cr
ASP3736 Global Development Partnership Project . . . . . 3 cr

Public Policy Track

ASP3725 Applied Politics & Public Policy Seminar . . . . . 3 cr
ASP3726 Public Policy Research Project . . . . . 3 cr

Au Sable Institute

Au Sable is an institution designed to promote Christian environmental stewardship through college courses, certification programs, internships, workshops, and conferences. Students may be eligible for courses, fellowships, and grants. Supported by the natural settings of the Great Lakes Forest or northern Michigan, Puget Sound in the Pacific Northwest, in South Florida, and South India, participants take courses, engage in scholarship, gain field experience, confer, and develop practical tools for environmental stewardship in programs that take seriously both science and theology. See ausable.org for further information.

PQ: BIO1011 OR EQUIVALENT; SEE PAGE 32.

ASI2725 Field Geology: Volcanoes, Glaciers, & Seacoast of the Pacific . . 4 cr
ASI2726 Field Biology of the Pacific Northwest. . . . . 4 cr
ASI2727 Natural History of the Pacific Northwest . . . . . 4 cr
ASI3710 Tropical Agricultural and Missions . . . . . 4 cr
ASI3711 Winter Biology . . . . . 4 cr
ASI3712 Summer Flora . . . . . 4 cr
ASI3719 Limnology (Water Resources). . . . . 4 cr
ASI3720 Insect Biology and Ecology . . . . . 4 cr
ASI3721 Aquatic Biology . . . . . 4 cr
ASI3722 Land Resources . . . . . 4 cr
ASI3723 Ecological Agriculture . . . . . 4 cr
ASI3724 Marine Mammals . . . . . 4 cr
ASI3725 Field Botany . . . . . 4 cr
ASI3726 Animal Ecology . . . . . 4 cr
ASI3727 Aquatic Ecology . . . . . 4 cr
ASI3728 Development/Ecological Sustainability in Africa. 4 cr
ASI3729 Mammals of East Africa . . . . . 4 cr
ASI3735 Sea Animals: Marine Invertebrates . . . . . 4 cr
ASI3736 Bioethics: Bridge to the Future . . . . . 4 cr
ASI3737 Global Development and Ecological Sustainability. . . . . 4 cr
ASI3738 International Development and Environmental Sustainability. . . . . 4 cr
ASI3745 Ornithology . . . . . 4 cr
ASI3750 Principles of Environmental Education and Interpretation. . . . . 4 cr
ASI3751 Environmental Chemistry. . . . . 4 cr
ASI3752 Environmental Health . . . . . 4 cr
ASI3815 Directed Individual Study . . . . . 1-4 cr
ASI3824 Marine Biology . . . . . 4 cr
ASI3826 Wildlife Ecology . . . . . 4 cr
ASI4720 Restoration Ecology . . . . . 4 cr
ASI4725 Forest Ecology . . . . . 4 cr
ASI4726 Conservation Biology. . . . . 4 cr
ASI4727 Alpine Ecology: Life in Context of Snow & Ice . .4 cr
ASI4728 Biosphere Science . . . . . 4 cr
ASI4729 Land Stewardship Ecology. . . . . 4 cr

Australia Studies Centre

Since Spring 2004, the CCCU has partnered with the Wesley Institute in Sydney, Australia to offer the Australia Studies Centre. Throughout the semester, students study theology, global justice issues affecting Australia, Indigenous cultures and the arts. Every student is required to take the courses "The View from Australia: Issues in Religion, Politics, Economics & Cultural Values" and "Indigenous History, Cultures & Identity." Additionally, students choose electives from Wesley Institute offerings in theology/ministry, music, drawing/graphic design, drama, dance and counseling. Students live with Australian families and volunteer with local community service providers. In order to experience the various aspects of Australian culture, students spend time in the Australian Outback and travel to the South Coast to connect with an Aboriginal community. ASC students earn 16–18 semester hours of credit. See bestsemester.com for details. .

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

Culture Emphasis

ASC1101 Indigenous History, Cultures, & Identity . . . . . 3 cr
ASC1102 The View from Australia: Issues in Religion, Politics, Economics, & Cultural Values . . . . . 3 cr

Discipline Emphasis

Recommend selecting one of the following:

ASC1131 Faith and the Contemporary Artist I (SPRING ONLY) 3 cr
ASC1132 Faith and the Contemporary Artist II (FALL ONLY) . 3 cr
ASC1133 Faith and the Contemporary Artist III . . . . . 3 cr
ASC1134 Special Topic: Theology & the Arts . . . . . 4 cr

Required to select two to four courses in one of the following disciplines:

Dance

ASC1201, 1202, 2201, 2202, 3201, 3202 Ballet Technique I–VI . . . . . 1 cr
ASC1211, 1212, 2211, 2212, 3211, 3212 Contemporary Technique I–VI: Beginners . . . . . 1 cr
ASC1221, 1222, 2221, 2222, 3221, 3222 Jazz Technique I–VI . . . . . 1 cr
ASC1231, 1232 Body Science I–II. . . . . 2 cr
ASC1241, 1242, 2241, 2242 Dance Ministry I–IV . . . . . 3 cr
ASC1251, 1252, 2251, 2252, 3251, 3252 Allied Movement Forms I–VI . . . . . 1 cr
ASC2261, 2262, 3261, 3262 Dance history I–IV . . . . . 2 cr
ASC2271, 2272, 2273, 2274 Ballroom I-IV. . . . . 1 cr
ASC2281, 2282, 2283, 2284 Hip Hop I-IV . . . . . 1 cr

Drama

ASC1301, 1302, 2301, 2302, 3301, 3302 Acting I–VI . . . 3 cr
ASC1311, 1312, 2311, 2312, 3311, 3312 Voice I–VI. . . . 3 cr
ASC1321, 1322, 2321, 2322, 3321, 3322 Movement I–VI 3 cr
ASC1331, 1332, 2331, 2332 Theatre History I–IV . . . . . 2 cr
ASC1341 Studio . . . . . 2 cr
ASC1351 Introduction to Drama. . . . . 3 cr
ASC1352 Introduction to Production. . . . . 3 cr
ASC2351 Production Practice . . . . . 3 cr
ASC3361 Performance Practice . . . . . 3 cr
ASC3371 Costume Design . . . . . 3 cr

Drawing/Graphic Design

ASC1401, 2401, 2402, 3401, 3402 Design Studio I–V . . . 5 cr
ASC1403 Design Foundations . . . . . 3 cr
ASC1405, 1406 Design History and Critical Theory I–II . . . . 3 cr
ASC1407 Design Technology . . . . . 3 cr
ASC1411, 1412, 2411, 2412 Drawing I–IV . . . . . 3 cr
ASC1431 Graphic Design I. . . . . 3 cr
ASC2421, 2422, 3421, 3422 Multimedia I–IV. . . . . 3 cr
ASC2431, 2432 Visual Communication & The Graphic Designer I–II . . . . . 3 cr
ASC2441, 2442, 3441, 3442 Photography I–IV . . . . . 3 cr
ASC2451 Video Production . . . . . 3 cr
ASC3461, 3462 Illustration I–II . . . . . 3 cr

Music

ASC1501, 1502, 2501, 2502, 2503 Harmony and Analysis I–V . . . . . 3 cr
ASC1505, 1506, 2505, 2506 Aural Perception I–IV . . . . . 3 cr
ASC1507 Vocal Technique . . . . . 2 cr
ASC1511, 1512, 2511, 2512, 3511, 3512 Large Ensemble (Choir) I–VI . . . . . 3 cr
ASC1515, 2515, 2516, 3515, 3516 Small Ensemble I–V . 3 cr
ASC1521 Functional Keyboard . . . . . 1 cr
ASC1531, 1532, 2531, 2532 Music History I–IV. . . . . 3 cr
ASC1581 Music Instrument Study A . . . . . 2 cr
ASC1582 Music Instrument Study B. . . . . 1 cr
ASC1583, 1584, 2583, 2583, 3583, 3584 Performance I–V . . . . . 3 cr
ASC2535, 2536 Church Music History I–II . . . . . 3 cr
ASC2541 Music Leading in Worship . . . . . 3 cr
ASC2551, 2552 Music Technology I–II . . . . . 3 cr
ASC2545 Pastoral Practice . . . . . 3 cr
ASC2591 Composition and Arranging . . . . . 3 cr
ASC3561 Ethnomusicology . . . . . 3 cr
ASC3571 Choral Conducting . . . . . 2 cr
ASC3585 Vocal/Instrumental Pedagogy . . . . . 2 cr

Theology/Ministry

ASC1604 Old Testament Survey II . . . . . 3 cr
ASC1605 Old Testament Background and Methodology. . . 3 cr
ASC1606 New Testament Background and Methodology . . 3 cr
ASC1611 Theological Foundations I . . . . . 3 cr
ASC1612 Theological Foundations II. . . . . 3 cr
ASC1641 Foundations of Pastoral Ministry . . . . . 3 cr
ASC2601 Old Testament Covenants . . . . . 3 cr
ASC2603 New Testament Survey I . . . . . 3 cr
ASC2604 New Testament Survey II. . . . . 3 cr
ASC2605 Jesus of Nazareth . . . . . 4 cr
ASC2606 Spirituality and the Parables . . . . . 3 cr
ASC2631 Homiletics . . . . . 3 cr
ASC2641 Understanding Children . . . . . 3 cr
ASC2646 Church Leadership . . . . . 3 cr
ASC2651 Ministry Field Experience . . . . . 3 cr
ASC3601 Exiles and Restoration. . . . . 3 cr
ASC3605 The Rise of Early Christianity. . . . . 3 cr
ASC3606 Colossians and Philemon. . . . . 3 cr
ASC3607 Old Testament Wisdom Literature. . . . . 4 cr
ASC3621 Creation, Providence, and Eschatology . . . . . 3 cr
ASC3651 Adventure Based Camping Ministry Field Experience . . . . . .3 cr
ASC3675 Ministry With and Care for Aging Persons . . . . . 3 cr
ASC4605 Romans. . . . . 3 cr
ASC4606 New Testament Perspectives on the Marginalised . . . . . 3 cr
ASC4666 Perspectives on the World Christian Mission . . . 3 cr

SEE BESTSEMESTER.COM FOR ELECTIVE COURSE SELECTIONS. THEN, SEE REGISTRAR FOR REGISTRATION INSTRUCTIONS FOR THE ELECTIVE COURSES.

Additional Learning Resources

Service-Learning Project

All students are required to fulfill 35 hours in a service-learning project to marginalized people in Sydney throughout the semester. This experience is both an academic exercise and designed to foster connections to the community. Opportunities for placement include inner-city youth programs, homes for the physically and mentally disabled, aged-care facilities, homeless shelters, soup kitchens, and evening coffee and food vans for the homeless community in Sydney. The ASC believes that the only way to effectively engage in meaningful art or ministry is by first following the example of Jesus and spending time with the those who exist outside the powerful social circles of the day. The service experience is as an integral part of the ASC program and is as essential as any of the academic courses.

Friday Discussion Groups, Classes and Excursions

Fridays are set aside for the experiential piece of the core classes. ASC students participate in local field trips, attend discussion groups and hear special speakers. All Friday sessions are mandatory. They will be exciting and stimulating experiences. The goal of the Friday discussions and excursions is to help students view aspects of Australian culture which they may not engage with on their own.

Travel

ASC students travel to the following places:

- The Australian capital city of *Canberra* (two days) in order to engage in foreign affairs and policies, as well as public service officers from a number of countries.
- The *Outback* (six days) in order to connect with Australian land and environment.
- *Auckland*, New Zealand (one week) in order to broaden awareness of indigenous people, especially the Maori people.

All travel is subject to change, based upon safety considerations and course modifications.

Camp Forest Springs

The concentration requirement of the Ministry major may be satisfied by completing the camping concentration at Camp Forest Springs located in Westboro, Wisconsin, along with other courses as listed in the Ministry program requirements. See page 66. Requires application to and acceptance by Camp Forest Springs.

CFS3000	Camp Management	1.5 cr
CFS3100	Camp Maintenance	1.5 cr
CFS3200	Promotion and Public Relations	1.5 cr
CFS3300	Food Service Management	1.5 cr
CFS3400	Camp Counseling	1.5 cr
CFS3410	Camp Organization	3 cr
CFS3420	Camp Administration	1.5 cr
CFS3500	Camp Programming	2 cr
CFS3600	Camp Teaching	.5 cr
CFS3700	Camp Safety	.5 cr

Canada Institute of Linguistics at Trinity Western University (CanIL-TWU)

CanIL, a program of SIL International, formerly known as the Summer Institute of Linguistics, provides a fieldwork approach to linguistics training, research, and language development. In its academic programs, hosted by postsecondary institutions, field linguists experienced in minority languages prepare students for language research, literacy development, and translation cross-culturally. SIL International is recognized for its work worldwide on language data and biblical translations.

Students receiving an English major with a linguistics concentration will spend either one summer at CanIL-TWU or SIL-UND (see 186). At CanIL-TWU, students take the following courses (SEE PAGE 94):

CIL4310	Articulatory Phonetics	3 cr
CIL4330	Phonological Analysis	3 cr
CIL4360	Grammatical Analysis	5 cr

China Studies Program

The China Studies Program enables students to engage China's ancient history and intrigue from an insider's perspective. While immersed in Chinese culture, students participate in seminar courses on the historical, cultural, religious, geographic and economic realities of this strategic, populous, and extremely influential nation. Students choose between completing a broad Chinese Studies Concentration or a Business Concentration, which includes an internship at a Chinese-owned and operated business in China. Students also study standard Chinese language with a goal of attaining the ability to handle everyday transactions in Mandarin. The program begins the semester in Hong Kong and introduces students to the diversity of China, including the capital city of Beijing, legendary Shanghai, ancient Xi'an and beautiful seaside Xiamen. This interdisciplinary, cross-cultural program enables students to communicate and understand the unique culture and people of China with an informed, Christ-centered perspective. CSP students earn 15-18 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO ONE OF THE CCCU INTERNATIONAL PROGRAMS DESCRIBED BELOW; SEE PAGE 32.

CSP1701	Chinese I	2–3 cr
CSP3705	Chinese History	3 cr
CSP3706	Contemporary Society: Public Policy & Economic Development	3 cr
CSP3707	Intercultural Communication	3 cr

Select an additional 3-6 credits from the following courses:

CSP1702	Chinese II	3 cr
CSP2706	Tai Chi (NOT AVAILABLE TO "DIMENSIONS" STUDENTS)	1 cr
CSP2707	Chinese Painting (NOT AVAILABLE TO "DIMENSIONS" STUDENTS)	1 cr
CSP2708	Dimensions of East Asian Culture	3 cr
CSP4705	Eastern Philosophy and Religions	3 cr
CSP4715	International Business in China	3 cr
CSP4716	Business Internship	3 cr
CSP4717	Field Experience or Internship	3 cr

Additional Learning Resources

Study tours

The program incorporates visits to appropriate sites, such as Chinese churches, a stained-glass factory, village shrines, Buddhist temples, and a Chinese high school. Additionally, in the middle of the semester, the students go on a study tour around China. During this trek, students see the Great Wall, the Summer Palace, the Forbidden City, Tiananmen Square, the Terra-cotta warriors, and much more.

Service Component

As part of the Contemporary Society course, students engage in one-week service (or "solidarity") work in a more rural part of China. Students are to teach English to schoolchildren on a daily basis and/or do whatever odd jobs that are of most use to our hosts (such as house-painting, weeding, picking up litter, etc.). Most students find this to be the highlight of their time in China.

Classroom Resources

The majority of the courses are taught in English by Chinese professors so that students may receive the Chinese point of view on major issues. Dr. Jay Lundelius, director of the CSP, oversees the administration of all courses and assessment. He also teaches the course in Intercultural Communication and co-teaches (with a Chinese sociology professor) the elective course on Eastern Philosophy & Religions.

Contemporary Music Center Program (CMP)

The Contemporary Music Center provides students with the opportunity to live and work in the refining context of community while seeking to understand how God will have them integrate music, faith and business. The CMC offers three tracks: Artist, Business and Technical. The Artist Track is tailored to students considering careers as vocalists, musicians, songwriters, recording artists, performers and producers. The Business Track is designed for business, arts management, marketing, communications and related majors interested in possible careers as artist managers, agents, record company executives, music publishers, concert promoters and entertainment industry entrepreneurs. The Technical Track prepares students for careers in live sound, concert lighting and studio recording. Students within each of the tracks receive instruction, experience and a uniquely Christ-centered perspective on creativity and the marketplace, while working together to create and market a recording of original music. Each track includes coursework, labs, directed study and a practicum. CMC students earn 16 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

CMP2705	Faith, Music, and Culture	3 cr
CMP2706	Inside the Music Industry	3 cr
CMP2707	Practicum "CMC Tour"	1 cr

Select one of the following tracks:

Artist Track

CMP3705	Essentials of Song Writing	3 cr
CMP3706	Studio Recording	3 cr
CMP3707	Performance	3 cr

Business Track

CMP3715	Strategic Management	3 cr
CMP3716	Music Business Survey	3 cr
CMP3717	Advanced Media Marketing	3 cr

Technical Track

CMP3725	Advanced Studio Recording	3 cr
CMP3726	Audio Engineering	3 cr
CMP3727	Concert Production	3 cr

Focus Leadership Institute

University of Northwestern has a cooperative educational partnership with the Focus Leadership Institute, Colorado Springs, Colorado. Focus Leadership Institute is a multidisciplinary educational program that delves into psychology, sociology and family studies as well as leadership, communication, social ethics, public policy, philosophy and theology. Students come from diverse academic majors—from art education to finance to marketing to ministry. Course material is designed to strengthen student leaders from the inside out, regardless of their academic backgrounds or future leadership roles. FLI's academic experience is founded on the proposition that Truth is rooted in the nature and character of God and is both objective and discoverable. Therefore, discovery becomes the primary goal in the classroom. Faculty members create a crucible of critical thinking, challenging students to question the assumptions that underlie their beliefs and actions. Faculty walk with students as they build a coherent worldview that can be productively applied to the challenges of living in today's world. See focusleadship.org for further information.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY FOCUS LEADERSHIP INSTITUTE; SEE PAGE 33.

FLI4260	Foundational Paradigms for Leadership	3 cr
FLI4270	Equipping Leaders for Culture	3 cr
FLI4500	Professional Internship	2-3 cr
FLI4530	Equipping Leaders for Marriage and Family	3 cr
FLI4540	Personal Competencies of Leadership	3 cr
FLI4570	Leadership Identity Development	3 cr

Summer Courses:

FLI4280	Cultural Issues Christian Perspective	4 cr
FLI4560	Family Issues in Christian Perspective	4 cr

India Studies Program

"Unity in Diversity" is the hallmark of the nation of India. The India Studies Program is structured to provide students with both immersion in a local community and broad exposure to a variety of peoples, places and customs in India, including an extensive two-week travel portion of the program to provide students a close up look at India's diversity. Students will participate in two core courses designed to provide a broad overview of the historical, religious, geographical and economic landscape of India. Building on their basic understanding of India's past and contemporary realities students will have opportunities to explore a variety of issues—poverty, social justice, rapid social change, religious pluralism—through the eyes and experience of Indian Christians. Rounding out the semester experience, students will also have the opportunity to take courses in their major areas with Indian students and professors. At its heart, the India Studies Program strives to encourage and equip students to effectively relate to India and its people in an informed, constructive and Christ-centered manner. ISP students earn 16 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

ISP2725	Contemporary India: Culture, Society and Challenges	4 cr
ISP2726	India's Religious Landscape	3 cr

Select three of the following:

ISP2727	Indian Fine Arts	3 cr
ISP2728	Culinary Dimensions of Culture: Indian Cuisine, Traditions and Festivals	3 cr
ISP3725	Indian Society & Social Work Intervention	3 cr
ISP3726	Indian Design: Traditional Costumes and Textiles	3 cr
ISP3727	Indian Literature	3 cr
ISP4725	Current Perspective of Business in India	3 cr
ISP4726	Field Experience & Internship	3 cr

Jerusalem University College

Jerusalem University College, formerly known as the Institute of Holy Land Studies, is an extension campus for more than 100 accredited Christian universities, colleges and seminiaries around the world as well as an independent, degree granting, institution of higher education in Israel. Founded in 1957 as a graduate institution, the school provides both graduate and undergraduate students the opportunity to study the Christian Scriptures in the context of the land where the events occurred as well as the languages, social and political culture, religions and historical relationships of the Middle East. See juc.edu for further information.

Latin American Studies Program

Based in San José, Costa Rica, the Latin American Studies Program introduces students to a wide range of experiences through the study of the language, literature, culture, politics, history, economics, ecology and religion of the region. Through living with local families, students become a part of the day-to-day lives of Latin Americans. Students also take part in a practicum/internship and travel to nearby Central American nations. Students participate in one of four concentrations: Latin American studies (offered both fall and spring terms); advanced language and literature (designed for Spanish majors and offered both fall and spring terms); international business (offered only in fall terms); and environmental science (offered only during spring terms). Depending on their concentration, students travel to nearby Central American nations. LASP students earn 16-18 semester credits. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING, ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

Courses selected depend upon concentration chosen.

LAS1715	Spanish Language Study	6 cr
LAS2716	Regional Study Travel	1–3 cr
LAS3715	Perspectives on Latin American History and Contemporary Issues	3 cr

Select one of the following concentrations:

Advanced Language and Literature

LAS3719	Language and Literature Seminar	3 cr
LAS3725	Community Immersion/Internship	3 cr

Environmental Science (spring semester only)

LAS3718	Environmental Science Seminar	4 cr
LAS3727	Field Research Practicum	2 cr

International Business (fall semester only)

LAS3717	International Business Seminar	3 cr
LAS3726	Community Immersion/Internship	3 cr

Latin American Studies

LAS3714	Responses to Third World Reality Seminar	3 cr
LAS3725	Community Immersion/Internship	3 cr

Los Angeles Film Studies Center

Founded in 1991, the Los Angeles Film Studies Center trains students to serve in various aspects of the film industry with professional skill and Christian integrity. Each semester, students live, learn and work in L.A. The curriculum consists of two required seminars: Hollywood Production Workshop, a film production course, and Faith & Artistic Development in Film, focusing on the role of film in culture and the relationship of faith to work in this very influential industry. In addition, students choose one elective course: screenwriting, acting, film production or independent study. Internships in various segments of the film industry provide students with hands-on experience. The combination of the internship and seminars allows students to explore the film industry within a Christian context and from a liberal arts perspective. LAFSC students earn 16 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

LAF2706	Hollywood Production Workshop	4 cr
LAF3700	Faith and Artistic Development in Film	3 cr
LAF3709	Internship: Inside Hollywood	6 cr

Select one of the following:

LAF3707	Professional Screenwriting	3 cr
LAF4706	Independent Study	3 cr
LAF4707	Professional Acting for the Camera	3 cr
LAF4708	Narrative Storytelling	3 cr

Middle East Studies Program

Based in Jerusalem, Israel, this program offers students a unique opportunity to explore and interact with the complex and strategically important world of the modern Middle East. Students explore diverse religious, social, cultural and political traditions of Middle Eastern peoples through interdisciplinary seminars. They also study the Arabic language and volunteer with various organizations. Through travel in the region (recently Israel, Palestinian areas, Jordan, Tunisia and Turkey), students are exposed to the diversity and dynamism of the local culture. At a time of tension and change in the Middle East, MESP encourages and equips students to relate to the Muslim, Eastern Christian and Jewish worlds in an informed, constructive and Christ-centered manner. MESP students earn 16 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

MES1725	Introduction to Arabic Language	4 cr
MES3725	Islamic Thought & Practice	4 cr
MES3726	Conflict and Change in the Middle East	4 cr
MES3727	Peoples and Cultures of the Middle East	4 cr

Additional Learning Resources

Service Opportunities

Students participate in service projects every Tuesday, except when traveling. Opportunities include working with orphan babies, Sudanese refugees, disadvantaged children of Garbage City and the elderly. Subject to change.

Culture and Language Exchange

The Culture and Language Exchange program is designed to build person to person relationships between MESP students and their Muslim and Christian Egyptian friends. The idea is for individuals to meet early in the semester, exchange e-mail and phone numbers, and meet occasionally for informal discussion about topics of interest to them. Through the CLE program, MESP hopes to encourage relationships between young people that lead to meaningful and candid discussions.

Travel

MESP students have traveled throughout the Middle East and have visited Israel, Palestine, Jordan, Syria, Lebanon, Tunisia, Morocco and Turkey, as well as various Egyptian sites outside of Cairo. However, please note that all travel is subject to change based upon safety considerations.

Oxford Summer Programme

The Oxford Summer Programme allows students, as affiliate members of Wycliffe Hall, University of Oxford, to do intensive scholarship in the oldest university in the English speaking world. During the five-week programme, students hone their research and writing skills and delve into the areas that interest them the most while exploring the relationship between Christianity and the development of the British Isles. Seminars and tutorials are given on specialized topics under expert Oxford academics in the areas of English language and literature, history, including the history of art and history of science, philosophy, and theology and the study of religion. The programme is structured for rising college sophomores, juniors, and seniors, graduate and seminary students, non-traditional students, teachers, and those enrolled in continuing education programs. OSP students earn 6 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

OSP3745 Seminar and Tutorial A . . . . . 3 cr

OSP3746 Seminar and Tutorial B . . . . . 3 cr

Scholars' Semester in Oxford, The

The Scholars' Semester in Oxford is designed for students who want to study intensively and to a high standard. Students develop their academic writing and research skills and explore the disciplines and interests of their choice. As Visiting Students of Oxford University and members of Wycliffe Hall, students study in the oldest university in the English speaking world. SSO students enroll in a primary and secondary tutorial, an integrative seminar and the British landscape course. Second term students write a thesis on a topic of their choice. Students group their work in a concentration so that all elements of their programme work together. SSO is designed for students interested in art history, classics, English language and literature, history, modern languages (French, German, Italian, Portuguese and Russian), musicology, philosophy, psychology and theology, though all majors may apply. SSO also offers 18 thematic or integrative concentrations such as history and philosophy of science and social sciences. Applicants are generally honors and other very high-achieving students and must have at minimum a 3.5 GPA to be considered for the programme. SSO students earn 17 semester hours of credit for a semester and may complete two semesters of the programme. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

First (or only) Semester

SSO4765 The British Landscape . . . . . 4 cr
SSO4766 Integrative Seminar . . . . . 4 cr
SSO4767 Primary Tutorial . . . . . 6 cr
SSO4768 Secondary Tutorial . . . . . 3 cr

Second Semester

SSO4775 Thesis . . . . . 4 cr
SSO4776 Further Studies in the Shaping of the British Landscape **or**
SSO4766 Integrative Seminar . . . . . 4 cr
SSO4777 Primary Tutorial . . . . . 6 cr
SSO4778 Secondary Tutorial . . . . . 3 cr

Semester in Spain (SIS) through Trinity Christian College

Semester in Spain is a program of Trinity Christian College located in Seville, Spain. It provides high quality academic courses in the language, literature, history, and culture of Spain. To accomplish this, the program employs a faculty of highly qualified individuals, all Spanish nationals. Practical learning opportunities through language immersion and excursions complement the academic program. See www.semesterinspain.org for additional information.

See Spanish Education major and Spanish major information and course requirements on pages 76-80, 92, and 119.

SIL International at the University of North Dakota (SIL-UND)

SIL International, formerly known as the Summer Institute of Linguistics, provides a fieldwork approach to linguistics training, research, and language development. In its academic programs, hosted by postsecondary institutions, field linguists experienced in minority languages prepare students for language research, literacy development, and translation cross-culturally. SIL International is recognized for its work worldwide on language data and biblical translations.

Students receiving an English major with a linguistics concentration will spend either one summer at SIL-UND or CanIL-TWU (see 182). At SIL-UND, students take the following courses (SEE PAGE 94):

SIL4500 Articulatory Phonetics . . . . . 2 cr
SIL4520 Syntax and Morphology I . . . . . 3 cr

Select one course from the following:

SIL4510 Phonology I . . . . . 3 cr
SIL4800 Learner-Directed Second Language Acquisition . 3 cr
SIL5100 Semantics and Pragmatics . . . . . 3 cr

Students International

Students International (SI) is a mission and community development organization with operations in various countries including Costa Rica. SI's passion is to provide students with opportunities to participate in ministry and service sites that are related to their personal, academic, and vocational interests. In semester-long academic programs, students are mentored by SI full-time staff members as they serve in Costa Rica. SI provides student experiences that are transformative spiritually, academically, vocationally, and personally while simultaneously focusing on Christ-centered ministry through SI's presence within the San Jose, Costa Rica community.

SIA3015	Incarnational Mission: Biblical Perspectives on International Ministry to the Poor	3 cr
SIA3025	Peoples and Cultures of Costa Rica	3 cr
SIA4995	International Internship in Costa Rica	4 cr

Students complete 6 credits (two courses) from the following (based on placement testing once in Costa Rica):

SPN1110	Beginning Spanish I	3 cr
SPN1120	Beginning Spanish II	3 cr
SPN2110	Intermediate Spanish I	3 cr
SPN2120	Intermediate Spanish II	3 cr
SPN3010	Spanish Grammar Review	3 cr
SPN3220	Spanish Conversation and Composition	3 cr
SPN3230	Intermediate Spanish Conversation and Composition	3 cr
SPN3500	Communication in Spanish	3 cr
SPN3510	Composition and Grammar Review	3 cr
SPN3520	Hispanic World Today	3 cr
SPN3530	Literature and Culture of Spain I	3 cr
SPN3540	Literature and Cultures of Spanish America	3 cr
SPN3600	Spanish for Native Speakers	3 cr
SPN3630	Literature and Cultures of Spain II	3 cr
SPN3640	Literature and Cultures of Spanish America II	3 cr
SPN4850	Contemporary Spanish-American Writers	3 cr
SPN4600	Spanish Phonetics	3 cr
SPN4610	Advanced Spanish Grammar	3 cr

Summer Partnership in Law – William Mitchell College of Law

Qualified University of Northwestern students have the opportunity to participate in the Summer Partnership in Law (SPIL) at the William Mitchell College of Law. SPIL introduces students to law and legal education through classes concurrent with William Mitchell's regular summer entry program, which extends from mid-June to late July. The program offers students and graduates a law school experience to help them determine if law is a career choice for them. See wmitchell.edu/summer for further information.

Uganda Studies Program

The Uganda Studies Program provides students with both immersion in a local community and broad exposure to a variety of people and places in Uganda and Rwanda. Students in the Uganda Studies Emphasis (USE) and Social Work Emphasis (SWE) share their lives with university students, living primarily on campus at Uganda Christian University (UCU), an international affiliate member of the CCCU located 15 miles east of the capital city of Kampala. They also participate in two short home stay experiences. Students in the Intercultural Ministry & Missions Emphasis (IMME) live with host families within walking distance of the university. As a result, a spectrum of Ugandan relationship give USP students a firsthand perspective as they explore issues such as poverty, cultural expressions of Christianity and missions, and as they seek to reconcile the realities of East Africa with their Christian faith. Students also spend time in Rwanda and rural Uganda. The experience-based and practicum courses are taught by CCCU faculty while the African Context courses and courses from the UCU curriculum are taught by UCU faculty. In addition to the core experiential course, students will choose additional elective and/or African Context courses to earn up to 16 hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF JUNIOR STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

Intercultural Ministry & Missions Emphasis (13-16 cr)

This emphasis attracts students who want their primary cross-cultural relationships to develop through their involvement with a Ugandan host family.

Students take the following:

USP4775	Faith and Action in the Ugandan Context	4 cr
USP4776	Cross-Cultural Ministry Practicum	3 cr

One African Context course (3 cr)
African Context or Elective course(s) (3-6 cr)

African Context courses:

USP3751	East African History from 1800 to Independence	3 cr
USP3754	East African Politics since Independence	3 cr
USP3756	Religions in Contemporary Uganda	3 cr
USP3757	African Literature	3 cr

Uganda Studies Emphasis (13-16 cr)

This emphasis attracts students who want their primary cross-cultural relationships to develop through their involvement in campus life at Uganda Christian University.

Students take the following:

USP4775	Faith and Action in the Ugandan Context	4 cr

One African Context course (3 cr)
African Context or Elective courses (6-9 cr)

Elective courses:

USP1701	Luganda I	3 cr
USP3736	Uganda Studies Emphasis Exchange Practicum	3 cr
USP3745	Health & Wholeness	3 cr
USP3755	African History & Culture	3 cr
USP3760	A Geography of Africa	3 cr
USP3761	Creative Writing	3 cr
USP3762	Understanding Worldviews	3 cr
USP3763	Spiritual Disciplines in Community	3 cr
USP3765	A Poetic Map of Africa	3 cr
USP3766	Seminar in Contemporary Ethics	3 cr
USP3767	Literature of the Bible and Christian Classics	3 cr
USP3768	Forming a Christian Worldview	3 cr
USP3769	Exegesis of the Epistle to the Galatians	3 cr
USP3770	Understanding Ethics	3 cr
USP3771	Introduction to Ugandan Politics	3 cr
USP3775	African Christian Theology	3 cr
USP3776	Politics in Africa	3 cr
USP3777	Theology of Missions	3 cr
USP3778	Understanding the New Testament	3 cr
USP3779	Law and Christian Political Thought in Africa	4 cr
USP3780	Understanding the Old Testament	3 cr
USP3785	Literature of the Bible & Christian Classics	3 cr
USP3795	Wildlife Conservation in Uganda	3 cr

SEE BESTSEMESTER.COM FOR ELECTIVE COURSE SELECTIONS

Washington Journalism Center

The Washington Journalism Center is a semester-long study program in Washington, D.C., created for students interested in the field of journalism. While in Washington students take classes focusing on their reporting and writing skills and on the history and future of the news media. These classes—Foundations for Media Involvement; Reporting in Washington; and Washington, News and Public Discourse—combined with an internship at a top news publication help students learn to integrate their faith in a journalism career. Students also participate in service learning opportunities as part of the WJC experience. WJC students earn 16 semester hours of credit. See bestsemester.com for details.

PQ: MINIMUM OF SOPHOMORE STANDING AND ACCEPTANCE INTO PROGRAM BY CCCU; SEE PAGE 32.

WJC2785	Foundations for Media Involvement	4 cr
WJC2786	Reporting in Washington	3 cr
WJC3785	Washington, News & Public Discourse	3 cr
WJC4785	Internship	6 cr

Service Learning

The program staff works to select unpaid work/service opportunities during the beginning and end of each semester to expose students to the many sides of Washington, D.C. WJC students may spend up to 40 hours each semester assisting on Habitat for Humanity projects, day-care centers, homeless shelters and other sites around the city. The WJC staff monitors student work and visits project sites.

Pastoral Ministry

PAS2205 Foundations of Pastoral Ministry . . . . . 2 cr
(**PQ**: MIN1005 and MIN2105) This course gives each student a biblical foundation and a practical understanding of the pastorate. Design elements will focus on the roles of pastor/shepherd, elder, and overseer in the local church. The positions of senior and associate pastor will be studied. Responsibilities for leading, preaching, organizing, and growing a church will be included. Special attention is given to the ordinances of the church, church planting, the pastor, and family.

PAS4305 Communicating the Biblical Message. . . . . 4 cr
[**PQ:** MIN2216] Building on MIN2216 Teaching Methods, a study of the theory and practice of audience analysis and the preparation and delivery of biblical messages/sermons by men and women, in a variety of contexts. Special attention is given to the effect of worldview issues, age, gender, ethnic origin, and Christian developmental level on the communication process.

Philosophy

PHI2005 Introduction to Philosophy# . . . . . 4 cr
A survey of Western philosophy: history, systems, problems, methods, ethics, and leading figures. Equivalent to PHI2009 (see Graduate & Continuing Education catalog).

PHI2007 Linguistic Introduction to Logic . . . . . 4 cr
In this course students learn basic principles of propositional logic and first-order logic. Emphasis is on the development of both understanding and skill in order to construct valid deductive arguments and to recognize fallacious reasoning.

PHI2016 Ethics# . . . . . 4 cr
A comparative introduction to normative social theory. An examination and critique of alternative grounds for claiming that an action, attitude, social rule, or social institution is morally right or wrong.

PHI3011 History of Philosophy: Ancient . . . . . 2 cr
A survey of the history of philosophy from Thales to Augustine. The course focuses on major developments and figures in philosophic thought with particular attention to Plato, Aristotle, the early church fathers, and Augustine. The course will explore the interaction between Greek and Roman philosophy and the development of early Christianity.

PHI2055 Introduction to Theological Philosophy . . . . . 2 cr
This course explores the implications of the biblical doctrines of creation, fall, redemption, and providence for the academic study of philosophy. It stresses the Christocentric nature of the world in which we live, the relationship between the inclination of the heart and the human ability to know, and the utter dependence of the created order upon the providential activity of the Creator from one moment to the next. Particular attention will be given to topics such as the Creator/creature distinction, the noetic effects of sin and regeneration, the inherently theological nature of all knowledge, and the relationship between general and special revelation.

PHI3012 History of Philosophy: Medieval . . . . . 2 cr
A survey of the history of philosophy from Augustine up to Descartes. The course focuses on major developments and figures in philosophic thought with particular attention to Augustine, Boethius, Anselm, Aquinas, William of Ockham, Molina, and Suarez. The course will explore the ways in which medieval Christian thinkers shaped and were shaped by philosophic and historical movements.

PHI3013 History of Philosophy: Modern . . . . . 2 cr
A study of the major thinkers and topics in 17th and 18th century European philosophy. Key figures include Descartes, Leibniz, Hume, Berkeley, and Kant. Central topics include skepticism and the limits of knowledge, the expansion of science and its relationship to Christianity, the mind-body problem, causation, and theistic arguments. Since all of these themes are still of central significance, they will be related to present-day discussions.

PHI3014 History of Philosophy: Contemporary. . . . . 2 cr
An overview of 19th and 20th century philosophy in Europe and America. Anglo-American philosophers will be studied, including Russell, Moore, Wittgenstein, and Plantinga. Special attention will be paid to "analytic" trends in philosophy of language and philosophy of science, including the 20th century renaissance in Christian philosophy. Continental philosophers such as Kierkegaard, Nietzsche, Sartre, and Derrida will be examined, with an emphasis on existentialism, postmodernism, and ethical and epistemic relativism.

PHI3025 Philosophy of Religion . . . . . 4 cr
This course is a critical examination of historical and contemporary views on several philosophical problems addressed by Christians and those in other monotheistic religions for centuries. These include such questions as the following: Does God know the future? How could God be absolutely sovereign and people be free? Since there is evil, what sense can be made of the claim that "God is good"?

PHI3026 The Problem of Evil and Suffering . . . . . 4 cr**
This course is a critical examination of alternative views held by Christians regarding theodicy, which is the moral justification of God in view of human suffering. The standard alternative views regarding the problems of evil, human freedom, God's purpose in creation, God's relationship to time, God's knowledge of the future, and God's goodness are examined.

PHI3035 Metaphysics . . . . . 2 cr
This course surveys metaphysics as the study of the nature of reality and is concerned with identifying and understanding the fundamentally distinct sorts of things that exist such as properties, relations, time, causality, freedom, mind, numbers, sets and possible worlds. The course attempts to relate these things to the doctrine of creation and to the dynamics of God's acting according to his plan for his purposes in Christ. This is a course in worldview integration for those majoring in physical and social science, mathematics, or in any of the humanities.

PHI3036 Jonathan Edwards Seminar. . . . . 4 cr
This course examines the Christian philosophy and theology of Jonathan Edwards (1703-1758) in its early modern setting. It critically evaluates his theses, argumentation and practical implications regarding God's motive and purpose in creation as it is expressed in his *Dissertation of the End for which God Created the World.* (The first half of the course explores Edwards' philosophical argument as expressed in the introduction and Chapter One. The second half examines his biblical and theological argument as expressed in Chapter Two.) This work is the centerpiece of his life-long interest in understanding how science, metaphysics, history, ethics and especially religious experience are rooted in his view of the dynamics and purpose of God's acting.

PHI3045 Philosophy of Belief and Knowledge . . . . . 4 cr
This course addresses the questions: What is belief? What is the difference between *believing that* and *believing in*? Is belief voluntary? What is knowledge? What role does the knower have in knowing? What can be done to prove that a claim is true? What other factors affect what a person believes and knows? This course also explores the philosophical grounds for justifying interpretations of texts and theories in science, law and the humanities.

PHI3825 Honors Topics in Philosophy . . . . . 2-4 cr
(**PQ:** 3.6 cum GPA or higher or consent of instructor) An investigation of a selected topic in philosophy for honors students.

PHI4835 Senior Seminar in Philosophy. . . . . 4 cr
(**PQ:** senior standing and any 20 credits of the Philosophy Major Required Courses completed) In this course students will demonstrate their knowledge of philosophy and of the integration of philosophy with Scripture and the liberal arts. The course involves guided research, critical thinking, and demonstration of oral and written skills appropriate to graduating Philosophy majors.

Physical Education Activity Courses

NOTE: SOME PHE COURSES MAY REQUIRE A FEE.

PHE1005	Basketball	1 cr
PHE1006	Softball	1 cr
PHE1007	Volleyball	1 cr
PHE1015	Aerobics	1 cr
PHE1016	Fitness	1 cr
PHE1017	Gymnastics**	1 cr
PHE1018	Power Walking**	1 cr
PHE1019	Weight Training	1 cr
PHE1021	Beginning Tennis	1 cr
PHE1022	Intermediate/Advanced Tennis**	1 cr
PHE1025	Badminton	1 cr
PHE1026	Racquetball	1 cr
PHE1031	Beginning Swimming**	1 cr
PHE1032	Intermediate/Advanced Swimming**	1 cr
PHE1035	Canoeing**	1 cr
PHE1045	Ice Skating**	1 cr
PHE1046	Cross-Country Skiing**	1 cr
PHE1047	Downhill Skiing**	1 cr
PHE1055	Archery**	1 cr
PHE1056	Bowling**	1 cr
PHE1057	Golf	1 cr

PHE1065 Lifetime Fitness and Wellness# . . . . . 1 cr
This course is an introduction to fitness and health principles with an emphasis on physical activity, nutrition, weight management and health related fitness concepts. Students will have the opportunity to assess their current levels of physical fitness, nutrition, and activity patterns in order to develop a personalized health and fitness program. Students will be required to participate in a variety of physical fitness activities as well as the study of pertinent principles governing fitness.

PHE2075 Athletic Performance Development. . . . . 1 cr**
This course is designed specifically for the athlete or the coach of athletes who want a better understanding of the unique underlying principles of athletic conditioning, fitness, and improvement of athletic performance.

PHE2085 Theory of Coaching Baseball . . . . . 1 cr**
Students will learn the strategies and techniques to teach the game of baseball. Students will develop drills and philosophies to assist the student in their development as a baseball coach.

PHE2086 Theory of Coaching Basketball. . . . . 1 cr**
The student who successfully completes this course will be able to use coaching theories and techniques in coaching middle age and high school basketball.

PHE2087 Theory of Coaching Football. . . . . 1 cr**
Students will learn fundamental strategies and techniques to teach the game of football. Students will develop drills and philosophies to assist the student in their development as football coach.

PHE2088 Theory of Coaching Volleyball . . . . . 1 cr**
Students will learn the strategies and techniques to teach the game of volleyball. Students will develop drills and philosophies to assist the student in their development as a volleyball coach.

PHE2089 Theory of Coaching Youth Sports . . . . . 1 cr**
To develop hands on knowledge on the basics to coach youth sports. This course acquaints students with necessary skills to coach youth sports.

Physics

Note: To enroll in any PHY course numbered PHY1201 and above, the student must receive a C or higher in all prerequisite courses.

PHY1005 Concepts of Physics . . . . . 3 cr**
(NOT available to students who have received a grade of C or better in any PHY course**)** A topical study of physics at the introductory level with some applications to contemporary society. Concepts covered are selected from: history, methods, motion, energy, electricity and magnetism, light, the atom, the nucleus, and some current areas of research in physics. Three lectures and one two-hour lab per week.

PHY1101 Fundamentals of Physics I. . . . . 4 cr
(**PQ**: C- or better in MAT1126 or MAT2025 or ACT Math score of 28 or above [SAT-I Math score of 630 or above]**)** This course stresses the use of fundamental principles to solve quantitative problems. Mechanics, rotations, and waves. Motion in one dimension, vectors, motion in two and three dimensions, force and Newton's laws, particle dynamics, work and energy, conservation of energy, rotational kinematics, rotational dynamics, angular momentum, fluids, oscillations, gravitation, and other topics as time permits. Three lectures and one two-hour lab per week.

PHY1102 Fundamentals of Physics II . . . . . 4 cr
(**PQ**: C- or better required in PHY1101 or PHY1201**)** This courses stresses the use of fundamental principles to solve quantitative problems. Electricity and megnetism; optical phenomena; modern physics. Three lectures and one two-hour lab per week.

PHY1201 Engineering Physics I . . . . . 4 cr
(**PQ**: C or better in MAT2121; one year of high school physics or PHY1101 recommended) Calculus-level general physics course stressing the use of fundamental principles to solve quantitative problems. Mechanics, rotations and waves. Motion in one dimension, vectors, motion in two and three dimensions, force and Newton's laws, particle dynamics, work and energy, conservation of energy, rotational kinematics, rotational dynamics, angular momentum, oscillations, gravitation, and fluid statics. Three lectures and one two-hour lab per week.

PHY1202 Engineering Physics II . . . . . 4 cr
(PQ: C or better in MAT2122 and PHY1201) Second semester of calculus-level general physics course stressing the use of fundamental principles to solve quantitative problems. Electric circuits, electricity, and magnetism. Current and resistance, DC circuits, electric charge, Coulomb's Law, the electric field, Gauss' Law, electric potential, capacitors and dielectrics, the magnetic field, Ampere's Law, Faraday's Law, inductance, AC circuits, magnetic properties of matter, and waves. Three lectures and one two-hour lab per week.

PHY2203 Engineering Physics III . . . . . 4 cr**
(**PQ**: C or better in PHY1202) Third semester of calculus-level general physics course stressing the use of fundamental principles to solve quantitative problems, optics, and waves. Modern physics, including quantum mechanics, special relativity, and the atomic structure of materials. Three lectures and one two-hour lab per week.

Political Science

POS1005 Introduction to Political Science . . . . . 4 cr
An introduction to the study of political power, political groups and parties, and political ideologies. The modern state and its relationship to the individual and to political groups will be discussed. Constitutions, branches of government, bureaucracy, and international politics will also be studied.

POS2005 U.S. National Government . . . . . 4 cr
The study of the structure and processes of American national government and its political processes and institutions. Particular attention is paid to constitutionalism, federalism, the presidency, the Congress, the Judiciary, bureaucracy, interest groups, and policy formation.

POS2625 Workshop in Student Government . . . . . 0-1 cr
(**PQ:** consent of instructor) For student government members only. **Note:** This course is designated as repeatable and may be repeated five times after the original taking of the course. See page 31.

POS2695 Minnesota Legislative Internship . . . . . 1-4 cr
(**PQ**: POS1005 or POS2005 or consent of instructor**)** Supervised work experience in the Minnesota legislature. Designed to provide a variety of experiences in the legislative process, research, and political activity. Requires application both to the internship program at the State Capitol and to the university for approval. Credits may not be used to satisfy core curriculum requirements. May not be repeated for credit.

POS3205 International Relations since World War II . . . . . 4 cr**
A study of the international community since the end of World War II with attention focused on national security in geopolitical terms, interdependence, and the international economic system. Attention is paid to the United States, Russia, Europe, the Middle East, Central America, the Persian Gulf, Japan, international law, and the United Nations.

POS4625 Workshop in Student Government . . . . . 0-1 cr
(**PQ:** consent of instructor) For student government members only. **Note:** This course is designated as repeatable and may be repeated five times after the original taking of the course. See page 31.

POS4995 Political Science Internship . . . . . 1–8 cr
(**PQ**: POS1005 or POS2005 or consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in political science. **Note:** See page 27 for note regarding internships.

Psychology

PSY1005 Introduction to Psychology# . . . . . 4 cr
A study of human behavior. Consideration is given to methodology and concepts in the areas of learning, motivation, emotions, perception, intelligence, and personality. Equivalent to PSY1009 (see Graduate & Continuing Education catalog).

PSY1106 Applied Psychology . . . . . 2 cr**
An examination of the personal, social, and professional applications of psychological concepts. Emphasis is upon personal growth and maturity.

PSY2105 Social Psychology . . . . . 4 cr**
(**PQ**: PSY1005**)** A study of behavior and cognition as a function of interpersonal relationships and group contexts. Topics include person perception, attitudes and attitude change, and motivation of social behavior.

PSY2108 Lifespan Psychology# . . . . . 4 cr
(**PQ**: PSY1005 for Psychology majors or consent of instructor**)** A study of the nature and implications of development from conception through death. Emphasis is upon cognitive, moral, spiritual, emotional, interpersonal, and self development. Topics to be addressed include: stages of development from birth through adolescence; maturation during the college years; critical periods of adulthood, marriage, and parenting; ageism and physiological processes of aging; death and dying.

PSY3206 Psychology of Learning . . . . . 2 cr**
(**PQ**: PSY2108**)** An examination of various learning theories. Attention is given to the behavioral, cognitive, social learning, and information processing approaches to learning. Students are encouraged to apply their understanding of different learning theories to clinical situations.

PSY3207 Abnormal Psychology . . . . . 4 cr
(**PQ**: PSY2108**)** An examination of the major modern theories of personality including classical psychoanalytic, object relations, trait, behavioral, cognitive, narrative and humanistic approaches. Students are encouraged to evaluate each theory constructively and develop a comprehensive theory of personality. A systematic consideration of the nature and causes of various forms of mental illness is included. Assessment and treatment approaches from the various theories of personality are also examined.

PSY3208 Statistics for the Social Sciences . . . . . 4 cr
(**PQ**: PSY2108 and ACT Math score of 18 or above [SAT Math score of 430 or above] or a passing grade in MAT0008 [may be taken concurrently]**)** A course designed to introduce students to descriptive and inferential statistics used in research in the social sciences. Students will gain conceptual and working knowledge of measures of central tendency, standard deviation, z-scores, t-scores, correlation and regression, hypothesis testing, chi-square, and one-way analysis of variance.

PSY3209 Physiological Psychology . . . . . 4 cr
(**PQ**: PSY2108**)** An examination of how psychological functioning impacts and is impacted by physiological functioning. Areas studied include central and peripheral nervous systems, sensation and perception, and neuropsychological functioning, with an emphasis on brain-behavior relationships.

PSY3215 Interpersonal Psychology . . . . . 4 cr
(**PQ**: PSY2108 or consent of instructor**)** A survey of the various dimensions of human intimacy. The impact of psychological, biological, and theological factors on relationships is examined with emphasis given to sexual function and dysfunction.

PSY3218 Psychology of Gender . . . . . 2 cr
(**PQ**: PSY2108**)** An examination of current approaches associated with the psychological and sociological study of gender. In this course we explore the ways in which men and women are different, study and critique theories that attempt to explain those differences, and recognize how and when those differences are meaningful.

PSY3305 Research Methods in Psychology. . . . . 4 cr
(**PQ**: PSY3208**)** A course designed to acquaint students with the scientific method as it is applied to research in psychology. Application of research statistics is stressed. Students are taught to write their results according to A.P.A. guidelines.

PSY3308 Psychology of Counseling . . . . . 4 cr
(**PQ**: PSY3207) A study of the clinical types of mental illness, the schools of psychotherapy, and the theories and techniques of counseling. Emphasis is upon personality integration and the principles of mental health. Consideration is given to the legal, ethical, and practical implications of counseling relationships. Reference is made to various personality tests.

PSY3315 Counseling Children . . . . . 4 cr
(**PQ:** PSY3308**)** Identification of childhood disorders and the development of appropriate treatment plans. Study of techniques of play therapy, art therapy, and cognitive behavioral theory.

PSY3316 Marriage and Family Counseling . . . . . 4 cr
(**PQ**: PSY3308**)** An overview of theories and intervention strategies as related to marriages and families. A study of various modern family counseling approaches, including family systems (structural and strategic), psychodynamic, cognitive, behavioral, narrative, and play therapy, are examined.

PSY3317 Treatment of Special Populations. . . . . 4 cr
(**PQ**: PSY3308**)** An examination of issues and dynamics associated with understanding and treating persons dealing with death, dying, bereavement, child abuse, and substance abuse.

PSY3326 Psychology of Stress Management . . . . . 4 cr**
This course examines the physiological, psychological, and spiritual dimensions of stress and its management. Students are trained in practical stress management techniques. The relationship between stress, illness, and pain management are considered.

PSY3327 Psychology of Pain Management . . . . . 4 cr**
This course examines various theories of pain and the use of the biopsychosocial model in the treatment of pain. Physiological, psychological, and social causes of pain are considered in the context of a Christian worldview. Attention is given to the role of personality characteristics and pain. Methods of treating pain are examined.

PSY3328 Clinical Health Psychology . . . . . 4 cr**
(**PQ**: PSY3327 or consent of instructor**)** This course addresses the issues for establishing an integrated primary care health psychology practice. Common medical conditions and treatments are explored along with biopsychosocial factors and strategies for intervention within a primary care context.

PSY3329 Professional Issues in Psychology . . . . . 4 cr
(**PQ:** PSY3308) This course will consider the American Psychological Association's published Ethical Principles of Psychologists and the application of these principles in a clinical setting. This course will also address issues of cultural competence, limits of competence, and topics in preparation for graduate school.

PSY3345 Urban Social Psychology. . . . . 3 cr
(**PQ**: see prerequisite listing in Urban Studies course description section on page 199-200) This course will cover various phenomena relations to social influence—the power of people to affect, persuade, or control the beliefs or behaviors of others. The student will become familiar with fundamental topics in social psychology, such as perception, motivation, attitudes, and attitude change. Areas of study will be topics such as chemical dependency and relationship to family systems, the urban experience of mental illness, challenges to urban parenting and understanding the psychological underpinnings of gangs.

PSY3615 Health Psychology Practicum . . . . . 2 cr**
(**PQ**: PSY3326, PSY3327, and PSY3328**)** Supervised observation and experience in applications of health psychology concepts.

PSY3835 Career Competencies Seminar. . . . . 0 cr
(**PQ**: minimum of junior standing**)** Orientation and preparation for an academic internship. To be completed the semester prior to enrolling in the internship course offered by the academic department.

PSY4305 Measurement and Assessment* . . . . . 4 cr
(**PQ**: PSY3207 and PSY3208**)** Survey of basic concepts and principles of psychological measurement, including factors influencing validity and reliability. The student becomes acquainted with the administration and interpretation of tests which assess intellectual and personality functions.

PSY4306 History and Philosophy of Psychology . . . . . 4 cr
(**PQ**: PSY2108**)** An overview of the major schools of psychology and an examination of their philosophical, scientific, and religious foundations. Students apply critical thinking skills to identify, compare, contrast, and evaluate the underlying assumptions of the various schools of psychology and formulate their own philosophy of social science research.

PSY4407 Integration of Psychology and Theology . . . . . 4 cr**
(**PQ**: PSY3207, ENG2205 or ENG2825, and junior standing) A study of the models, levels, and areas in which integration of psychology and theology can occur. Particular attention is given to the biblical and psychological theories on motivation.

PSY4835 Senior Seminar in Psychology . . . . . 4 cr
(**PQ**: PSY3308, BIB4360 or BIB4825, ENG2205 or ENG2825, ECE passed, SPE1075 or SPE1825, senior standing**)** This seminar emphasizes the skills of critical thinking and oral and written communication at the senior level. Students investigate a variety of critical and controversial issues in psychology and conceptualize an integrative Christian response. Students are engaged in discussion groups, writing projects, and a formal presentation to facilitate skill development.

PSY4841 Directed Psychological Research I. . . . . 1-8 cr
(**PQ:** PSY3305 and consent of instructor) Students work in a laboratory setting to develop and conduct an empirical research project. Students conduct background literature reviews in their specific area of interest, design an appropriate research method, obtain IRB approval of research, recruit participants, and begin testing participants. Students will also complete the first half of the psychological research report, which includes the literature review and the Method section.

PSY4842 Directed Psychological Research II . . . . . 1-8 cr
(**PQ:** PSY3305 and consent of instructor) Students complete testing of study participants, analyze testing data, complete the written report (Results and Discussions sections), and submit the report for professional publication/presentation.

PSY4995 Psychology Internship . . . . . 1-8 cr
(**PQ**: PSY3835 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in psychology. **Note:** See page 27 for note regarding internships.

Public Relations

PRL2085 Public Relations Principles and Concepts* . . . . . 4 cr
The nature and role of public relations, activities of public relations professionals, major influences which affect organizational behavior, and the ethics of public relations professionals. Examination and practice of skills and techniques used in the practice of public relations.

PRL3385 PR Writing and Tactics . . . . . 4 cr
This course focuses on developing the essential writing capabilities needed to complete a wide variety of projects in the public relations profession. The course is designed to help students gain experience in researching, interviewing, writing, and producing materials used by public relations professionals. These include biographies, press releases, fact sheets, backgrounders, newsletters, brochures, speeches, etc. Discussion of public relations tactics is integrated into the course. Students should develop a strong understanding of the public relations process.

PRL3386 PR Events: Planning and Management. . . . . 4 cr
(**PQ**: PRL3385 or consent of instructor) This course focuses on developing the essential capabilities needed to stage and execute a wide variety of events relevant to the public relations profession. The course is designed to help students gain experience in researching, planning, staging, scripting, and executing an array of events used

by public relations professionals. These include press conferences, speeches, ceremonies, media tours, professional conferences, events sponsorship, coordination with partner organizations, etc. Discussion of public relations tactics is integrated into the course. Students should develop a strong understanding of the public relations process.

PRL3387 Political Communication. . . . . 4 cr
(**PQ:** PRL3385 or consent of instructor) This course focuses on developing the essential capabilities needed to serve as a communications consultant or employee on a political campaign. The course is designed to help students gain experience in researching, planning, staging, scripting, and executing an array of communications used by public office seekers. Discussion of both political campaign principles and tactics is integrated into the course. Students should develop a strong understanding of the importance of communications in the political process.

PRL4308 Public Relations Research Methods* . . . . . 4 cr
(**PQ:** MAT2055 or PSY3208 and junior or senior standing) A survey and analysis of the most commonly-used methods of social science inquiry relating to the public relations field. Both qualitative and quantitative methods are examined. Students engage in original research projects.

PRL4385 Public Relations Cases and Campaigns*. . . . . 4 cr
(**PQ**: PRL3385) This course focuses on the analysis of public relations case studies and features intensive individual service-learning through the development and production of public relations campaign plan books for real-world clients.

PRL4995 Public Relations Internship . . . . . 1–3 cr
(**PQ**: consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised work experience in public relations. **Note:** See page 27 for note regarding internships.

Science - General

SCI1007 Earth Science . . . . . 4 cr**
An introduction to earth science, including comparison of the standard evolutionary-uniformitarian interpretation of earth features with the catastrophic-creation account. The claims of both philosophies are examined by the observations of science. Includes rock formation, fossils, critique of dating methods, and the geologic time column. Three lectures and one two-hour lab per week.

SCI1008 Introduction to Scientific Thought . . . . . 4 cr
(**PQ:** one year of high school algebra and one year of high school geometry**)** An examination of the history, development, philosophy, and practice of the natural sciences in the Western world from prehistory to the present day. Laboratory sessions will focus on fundamental concepts in astronomy, biology, chemistry, geology, and physics. Three lectures and one two-hour lab per week.

SCI1010 Environmental Science. . . . . 4 cr
Principles of the interrelationships between organisms and their environment. Discussion of issues including air and water pollution, waste disposal, population growth, resource management, public policy, ethics, and Christian stewardship of God's creation. Three lectures and one two-hour lab per week. Credit for SCI1010 may be counted toward/for SCI1029. (see Graduate & Continuing Education catalog).

SCI2108 Concepts of Astronomy##. . . . . 4 cr
(**PQ:** ACT Math score of 18 or above [SAT Math score of 430 or above], or consent of instructor) Fundamental concepts in astronomy. Topics covered will be selected from: the solar system, stellar objects, stellar systems, constellations, galaxies, and cosmology. There will be some exploration of the relationship between astronomy and the Christian faith. Offered through the Undergraduate Online Learning venue only. Includes lab.

SCI2825 Honors Topics in Natural Science . . . . . 4 cr**
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above], or consent of instructor) Systematic overview of principles and concepts in one or more of the following topics in the natural sciences: ecology, plant biology, animal biology, embryology, cell and molecular biology, and genetics. Three lectures and one two-hour lab per week.

Sociology

SOC1035 Introduction to Sociology . . . . . 4 cr
A study of social organization, processes, and control. Consideration is given to methodology and concepts in the areas of role and status, social and cultural change, deviancy and disorganization, urbanization and minority groups, and primary groups and socialization. Equivalent to SOC1039 (see Graduate & Continuing Education catalog).

SOC2035 Social Problems . . . . . 4 cr
A study of sociological and psychological concepts relating to social pathology, deviance, disorganization, and control. Topics include problems such as chemical dependencies, suicide, family maladjustment, crime and juvenile delinquency, and discrimination. Attention is given to the implications for various institutions, particularly the school and the church, and for a biblical social ethic.

Spanish

Directed studies are available. See page 27.

SPA1001 Beginning Spanish I#+ . . . . . 4 cr
An introduction to the Spanish language, its sounds, structures and vocabulary, and to the culture of the Hispanic world. Emphasis on the use of the present tense. Students make use of the online program MySpanishLab. SPA1001 is the first of a two-semester course sequence.

SPA1002 Beginning Spanish II#+. . . . . 4 cr
(**PQ**: SPA1001 or consent of instructor**)** An introduction to the Spanish language, its sounds, structures and vocabulary, and to the culture of the Hispanic world. Emphasis on the use of the preterit and imperfect tenses and the distinction between the present indicative and subjunctive moods. Students make use of the online program MySpanishLab. SPA1002 is the second of a two-semester course sequence.

SPA2101 Intermediate Spanish I . . . . . 4 cr
(**PQ**: SPA1002 or consent of instructor**)** This course reviews material and expands skills developed at the introductory level**.** High interest topics in the text provide opportunity for individual oral and written expression**.** Three 65-minute periods and one hour of lab per week.

SPA2102 Intermediate Spanish II . . . . . 4 cr
(**PQ**: C or better in SPA2101 or consent of instructor**)** This course continues the development of speaking, listening, reading and writing skills**.** Special emphasis on the use of compound tenses and the subjunctive mood**.** High interest topics in the text provide opportunity for individual oral and written expression**.** Three 65-minute periods and one hour of lab per week.

SPA3201 Spanish Grammar . . . . . 4 cr
(**PQ**: C or better in SPA2102 or waiver for SPA2102 by placement examination or consent of instructor.**)** The study of the syntactical and semantic structures of Spanish**.** Cultural essays and literary texts provide the context for vocabulary development and grammatical analysis**.**

SPA3202 Spanish Conversation and Composition* . . . . . 4 cr
(**PQ**: C or better in SPA2102 or consent of instructor**)** Advanced practice in speaking and writing Spanish**.** Class discussions, compositions and individual presentations on cultural topics and contemporary issues in the Spanish-speaking world.

SPA3205 Spanish Phonetics and Linguistics . . . . . 4 cr**
(**PQ**: SPA2102 or consent of instructor) A study of Spanish historical linguistics and phonetics, dialectical variations, and word and sentence formation. **Note:** Course not currently offered.

SPA3311 Spanish Culture and Civilization-Spain . . . . . 4 cr**
(**PQ**: SPA2102 or consent of instructor**)** A comprehensive study of the origins of the culture and civilization of Spain from its early Mediterranean settlements through its Roman, Visigoth, and Arab occupations, the establishment of a Christian kingdom, and the emergence of a modern constitutional monarchy. **Note:** Course not currently offered.

SPA3312 Culture and Civilization of Spanish America . . . . . 4 cr**
(**PQ**: SPA2102 or consent of instructor**)** The study of the origins of Spanish civilization and culture in South and Central America. Concentration on the literature of discovery, exploration, colonization, independence, and democratization. Emphasis on its cultural development. **Note:** Course not currently offered.

SPA3321 Spanish Peninsular Literature . . . . . 4 cr**
(**PQ**: SPA2102 or consent of instructor**)** A survey of representative works of the literature of Spain. Concentration on selected works of the Renaissance and Baroque periods. Emphasis on the literary importance of major movements coexistent with and affecting the literature of the 19th and 20th centuries. **Note:** Course not currently offered.

SPA3322 Spanish America and its Literature . . . . . 4 cr**
(**PQ**: SPA2102 or consent of instructor**)** A survey of representative works from the 16th century through the 20th century: Cortés, Echevarría, Sarmiento, Hernández, Martí, and Darío to Paz, García Márquez, Rulfo, Onetti, Sábato, and others. **Note:** Course not currently offered.

SPA3325 Selected Spanish Stories. . . . . 4 cr
(**PQ:** SPA3201) A study of the Spanish short story with particular emphasis on the works of Latin American authors. In-depth study of a full length literary work of the student's choosing.

SPA3335 Spanish through Service . . . . . 2 or 4 cr
Acquisition of knowledge of the Hispanic culture and application of Spanish communication skills in authentic contexts through service work in Spanish-speaking communities.

SPA4325 Spanish Poetry . . . . . 4 cr**
(**PQ**: SPA3201 and consent of instructor**)** Representative Spanish poetry from earliest times to the present. Spanish versification textual analysis and interpretation. **Note:** Course not currently offered.

SPA4326 Spanish Drama through the Centuries . . . . . 4 cr**
(**PQ:** consent of instructor**)** Literary analysis of selected works of representative dramatists: Calderón Alarcón, Tirso, Lope, Rivas, Casona, Lorca, Buero Vallejo, and others. **Note:** Course not currently offered.

SPA4327 The Spanish Novel . . . . . 4 cr**
(**PQ**: SPA3201 and consent of instructor**)** Literary analysis of selected works of representative writers. Emphasis on the literary, historical, and social value of the Spanish novel from its origins: costumbrism, realism, regionalism, naturalism, and social realism through tremendism. **Note:** Course not currently offered.

SPA4845 Senior Project . . . . . 2 cr
(**PQ:** 20 credits of 2000-4000 level SPA prefix courses and 12 credits of SIS prefix courses) An individualized course in which the student researches an aspect of the language, culture, or people of the Spanish-speaking world. The student prepares a written report and gives a public presentation in the Spanish language.

Speech

SPE1075 Public Speaking# . . . . . 3 cr
An introductory study and analysis of basic principles of effective communication with emphasis on public address, interpersonal, and group communication. Class activities provide opportunities to develop skills in speech preparation and delivery, interpersonal, and group communication. Equivalent to SPE1079 (see Graduate & Continuing Education catalog).

SPE1825 Honors Public Speaking . . . . . 3 cr
(**PQ**: ACT Composite score of 27 or above [SAT score of 1210 or above], or consent of instructor) An introductory study and analysis of basic principles of effective communication with emphasis on public address, interpersonal, and group communication. Class activities provide opportunities to develop skills in speech preparation and delivery, interpersonal, and group communication. Emphasis will be placed on research and critical thinking skills. Attention will also be given to rhetorical analysis of contemporary speeches.

SPE2125 Oral Interpretive Performance* . . . . . 1–2 cr
(**PQ**: SPE1075 or SPE1825**)** Basic principles in the analysis, theory, critiquing, and techniques of prose, poetry, and dramatic literature interpretation. Includes public solo performance and attention to Reader's Theatre. Students are required to participate in intercollegiate forensics competition, public performance, Reader's Theatre, etc. as part of course requirements.

SPE2625 Speech Workshop . . . . . 0-1 cr per year
Active participation in intercollegiate forensics competition as scheduled by the faculty. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

SPE3175 Persuasion* . . . . . 4 cr
(**PQ**: SPE1075 or SPE1825**)** Principles and methods of persuasive discourse as a means of social influence, including ethical and spiritual responsibilities. Practical instruction and experience in the preparation and delivery of persuasive speeches.

SPE3176 Advanced Public Speaking and Speech Writing . . . . . 4 cr**
(**PQ**: SPE1075 or SPE1825**)** Students build upon fundamental principles of effective speech preparation and delivery, applying them to professional contexts. Students learn how to write speeches for others considering the speaker's personality, style, and the expectations created by the specific topic, audience, and occasion. Students view a number of great speeches of this century, critically analyzing the speeches and speakers.

SPE4625 Speech Workshop . . . . . 0-1 cr per year
Active participation in intercollegiate forensics competition as scheduled by the faculty. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

Theatre

THE1051 Acting I . . . . . 4 cr
Creative methods of role development, styles of acting from major periods of the theatre, and play analysis.

THE1055 Introduction to Theatre . . . . . 2 cr
The experience and nature of theatre art and functions of the audience, actor, director, designer, and playwright in contemporary drama.

THE1056 Drama and Ministry . . . . . 2 cr
An examination of the role of drama in Christian ministry. The use of drama in the church, parachurch organizations, and missions is studied.

THE2035 Movement for the Actor . . . . . 2 cr
(**PQ**: THE1051) An investigation into the fundamentals of human movement, and issues of movement in performance. Exercises concentrate on the development of spatial and self-awareness, ensemble skills, and group problem solving.

THE2045 Children's Theatre* . . . . . 2 cr
The course focuses on the methods and materials of producing plays for children, including audience analysis, script analysis, design, rehearsal and performance. The goal is to produce a play or plays to perform at local schools and churches.

THE2046 Creative Dramatics* . . . . . 2 cr
The course is designed to acquaint students with materials, techniques, and theories of creative dramatics. Intended for elementary and junior high school teachers or prospective teachers, theatre majors, religious leaders, youth and camp counselors, day care workers, social and psychological workers, and community theatre leaders interested in working with children.

THE2136 Voice and Speech for the Actor . . . . . 2 cr
(**PQ**: THE1051) Developing the expressive voice. Understanding the anatomy and physiology of the voice, breath and resonance. Release of physical blocks.

THE2165 Introduction to Stage Technologies . . . . . 4 cr
This course introduces students to the methods of designing, planning, construction, painting, rigging, and shifting stage scenery for the theatre.

THE2625 Acting Workshop. . . . . 0–1 cr
Participation in acting a role in a dramatic production. Audition and casting required in a current production. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE2626 Stagecraft Workshop. . . . . 0–1 cr
A hands-on experience in the construction, planning, load-in, and strike for an actualized production. Students may focus in scenery, props, and costumes. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE2627 Running Crew Workshop . . . . . 0–1 cr
A hands-on experience for the backstage crews in scenery, costumes, electrics, props, and sound during the run of the current production. Begins with tech week and goes through strike immediately following the last performance of the production. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE2629 Stage Movement Workshop . . . . . 0–1 cr
A workshop in movement skills related to the actor's craft, including analysis, Description, and execution of a broad range of movement

qualities required in various scripts. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE3152 Advanced Acting Styles . . . . . 4 cr
(**PQ**: THE1051 or consent of instructor; may be repeated for credit**)** Advanced training techniques in acting applied to a wide range of dramatic genres. Students must participate in a semester recital. **Note:** This course is designated as repeatable and may be repeated four times after the original taking of the course. See page 31.

THE3158 Design for the Theatre* . . . . . 4 cr
(**PQ**: THE1055**)** Course is an overview of all the design disciplines for the theatre; sets, lights, costume, and make-up.

THE3166 Theatre Management* . . . . . 4 cr
(**PQ**: THE1055) The course provides a comprehensive picture of theatre management, including current technologies used in theatre, efficient use and maintenance of physical space, and organization and budgeting for shows.

THE3257 History of the Theatre* . . . . . 4 cr
(**PQ**:THE1055, ECE passed, and ENG2205 or ENG2825) The course focuses on the development of theatre history from the 1890s in Germany through the present day. It covers the plays, the cultures, the architecture, and the art that impacted theatre history.

THE3265 Lights and Sound Technologies . . . . . 4 cr**
(**PQ:** THE2165) This course focuses on the current lighting and sound equipment used in the theatre and church. It is meant to give an understanding of the equipment and how to maintain and use it.

THE3355 Drawing and Rendering for the Stage . . . . . 2 cr**
(**PQ:** THE3158) The course focuses on the visual communication methods and how to illustrate them for the theatre as a designer in costumes, scenery, and lighting.

THE4156 Directing*. . . . . 4 cr
(**PQ**: THE1055**)** A study of the basic elements of stage directing, with an emphasis on directing in a Christian setting**.** Students direct a cast in a one-act play.

THE4625 Acting Workshop. . . . . 0–1 cr
(**PQ**: THE2625 and consent of director**)** Preparation for internship. Audition and casting required in a current production. Active participation involving a leadership responsibility in the performance aspect of a current dramatic production. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE4626 Stagecraft Workshop. . . . . 0–1 cr
(**PQ**: consent of technical director**)** Active participation involving a leadership responsibility in the stagecraft aspects of a dramatic production. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31

THE4627 Stage Management Workshop . . . . . 0–1 cr
A hands-on intensive experience in the process of stage managing an UNW theatre stage production, including daily communication with cast, crew and director, preparing line notes, calling the show, and overseeing, meeting and delegating many production needs. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE4628 Design Assistant Workshop . . . . . 0–1 cr
To gain practical knowledge in design by assisting for a fully realized production. Includes learning collaboration, how to read a script, research and developing a design concept, visual communication skills for presenting a design, planning and prep for the design to be actualized in the shop, and working with the shop in the realization of the design. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE4629 Stage Movement Workshop . . . . . 0–1 cr
(**PQ**: THE2629) A workshop in movement skills related to the actor's craft, including analysis, Description, and execution of a broad range of movement qualities required in various scripts. May be taken multiple times for credit. **Note:** This course is designated as repeatable and may be repeated ten times after the original taking of the course. See page 31.

THE4995 Theatre Performance Internship. . . . . 1–3 cr
(**PQ**: THE4625 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised advanced training in the performance theatre career; paid and unpaid experience; provides transition from educational to professional world in acting. **Note:** See page 27 for note regarding internships.

THE4996 Theatre Production Internship . . . . . 1–3 cr
(**PQ**: THE4626 and consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised advanced training in the technical theartre career; paid and unpaid experience; provides transition from educational to professional world in various aspects including administration, production, and non-professional. **Note:** See page 27 for note regarding internships.

Urban Studies

These courses are held off campus. See the Urban Studies advisor for further information.

URB2011 Mission*Shift* Institute I . . . . . 3 cr
An introduction to the city; understanding culture and learning to cross cultural boundaries. Learning to envision and create a ministry to reach one of those cultures. Strong emphasis on experiential learning and meeting people from other cultures.

URB2012 Mission*Shift* Institute II . . . . . 3 cr
A continuation of an introduction to the city; Overview of world religions, their worldview and access points; grant writing; challenges of the city such as chemical dependency, mental illness, kids & gangs, immigration policy, prostitution and where to begin in helping appropriately. Throughout the semester students will study an immigrant cultural group in order to create a ministry plan to reach them.

THE FOLLOWING URBAN STUDIES COURSES HAVE THE FOLLOWING PREREQUISITES: ANT2045, MIN2216, ENG1105 OR ENG1825, ENG2205 OR ENG2825, HIS1005 OR HIS1825, ICS2015, ICS3215, SPE1075 OR SPE1825.

URB3315 Principles of Urban Studies. . . . . 3 cr
This course is intended to provide the learner with an introduction to theory and methodology of urban ministry from a Biblical perspective. An overview of the history, theological trends, leadership and future of urban ministry, with attention to Biblical principles for evaluating the strengths and weaknesses of urban ministry and designs will be covered to give the students a greater understanding of urban ministry.

URB3316 History and Contemporary Issues. . . . . 3 cr
This class is designed to give students a thorough understanding of the history and development of Minneapolis as well as its current trends and challenges. It gives the student an in-depth understanding of the milieu in which he or she will be studying the rest of the urban classes. The course will be taught using various learning methods including reading, lectures, discussions, research, writing, field trips, media presentations and guest speakers. As an integrative approach, the students will engage in a combination of classroom preparations, field experience and post-experience analysis, creating a critical reference point for the student to deepen his or her Christian worldview, cross-cultural engagement, and understanding of diverse social and cultural contexts.

URB3317 Demographics and Research Methods . . . . . 3 cr
This class instructs students in the methods and procedures for conducting urban demographics. The class will focus on the consumption of demographic material to make competent, strategic decisions. The class will also require students to conduct mini-research projects to further their understanding of compiling demographic data.

URB3318 Urban Economics, Entrepreneurship and Community Development . . . . . 3 cr
This course is a study of the process of forming and managing a non-profit organization, with a focus on the unique contributions and characteristics of faith-based organizations. Students will spend eight hours on-site at a local ministry or non-profit organization, attending board meetings, interviewing the chief executive and observing programs. Through this field study, students will witness the application of the concepts taught in class and will be asked to assess the various aspects of the non-profit organization they are studying. In addition, students will develop an overall concept/vision for a non-profit organization they would like to start and will develop a strategic plan and case statement for it.

URB3319 Significant Urban Studies Issues . . . . . 3 cr
This class is designed to give students a good understanding of several interrelated areas of urban service. The students will learn from practitioners and specialists in each of the following areas: chemical dependency (Including detox, intervention strategies, treatment methods, community resources, 12-step programs, etc.), teen pregnancy, prostitution and the sex industry, HIV/AIDS, Homeland Security/INS, domestic violence, narcotics distribution and gangs.

URB3345 Race and Ethnicity in America. . . . . 3 cr
In this course students will examine the issues surrounding race relations in the United States. This examination will include some of the history of race relations leading up to the most current racial climate. The class will develop a Biblical grid through which to understand the issues. Students will not only study the issues but also learn to think critically about Christian and secular models currently offered to solve racial problems in our nation. The class will also attempt to recast valuable secular models into Biblical categories. The class will suggest alternative modes of thinking about race relations to those concerned individuals and institutions in our culture.

URB4991, 4992 Urban Studies Internship. . . . . 3–4 cr each
(**PQ:** consent of faculty supervisor; liability release agreement, evaluation consent, and internship registration forms are required) Supervised experience in a non-profit/ministry in the urban, cross-cultural context. This course requires ministry involvement totaling at least 50 hours per credit in the area of the student's emphasis. **Note:** See page 27 for note regarding internships.

Web Content Management

WCM3055 Writing for the Web* . . . . . 2 cr
This course will explore how users read online, and how to create reach, appropriate content for websites.

WCM3056 Web Content Strategy* . . . . . 2 cr
This course examines the theory and practice of planning for effective web content creation, delivery, and governance. Concepts explored include information architecture, usability, content project planning and management, and search engine optimization.

Youth and Family Studies

YOU2205 Foundations of Youth Ministry . . . . . 2 cr
(**PQ**: MIN1005 and MIN2105) An introduction to the history and theology of Youth Ministry. Where contemporary American youth ministry stands, particularly in comparison with youth studies perspectives on youth/youth work. How theology and youth study theories facilitate understanding of youth ministry.

YOU3206 Everyday Lives of Adolescents and Youth . . . . . 2 cr
(**PQ**: YOU2205) Young people's participation in and understanding of subcultures, lifestyles, and event cultures. Place of these in young people's identity, family, and friendships. Use of life experience, news and popular media to explore everyday realities of being a young person, as it varies by social class, race/ethnicity, geography, time period, and capacity.

YOU3207 Spiritual Lives of Adolescents and Youth . . . . . 2 cr
(**PQ**: YOU3206) Adolescent and youth spirituality, its relation to working with young people and the world in which they live. Faith and spirituality are understood with depth and creativity as necessary aspects of healthy youth development.

YOU3208 Practice of Youth Ministry. . . . . 4 cr
(**PQ:** MIN2216 and YOU2205) A course designed to prepare the student for an effective ministry with junior high and senior high youth. Topics include developmental approaches, methodology effective in programming, discipleship, and recreational ministries.