List of approved Core Courses:

NOTE: Courses listed in two different Core categories satisfy either category, but not both.

**Communication**
COM 101 Human Communication
COM 120 Foundations of Health Communication

**Composition I**
ENG 101 English Composition I

**Composition II**
ENG 102 English Composition II

**Math/Logic**
MATH 110 Finite Mathematics
MATH 205 The Calculus I
MATH 208 Elementary Statistics
MATH 217 Theory of Arithmetic and Geometry
MATH 223 Discrete Mathematics I
PHIL 205 Introduction to Philosophy
PHIL 220 Practical Thinking
PHIL 320 Symbolic Logic

**Religion**
REL 106 Exploring the Bible
REL 107 Exploring World Religions
REL 109 Exploring Christian Ethics
REL 210 The Gospels

**Aesthetics**
ART 130 Elements of Design
ART 140 Fundamentals of Drawing
ART 150 Art and Ideas
ART 160 Fundamentals of Studio Art (not open to art majors)
ART 160A Ceramics
ART 160B Painting
ART 160C Printmaking
ART 160D Sculpture
ART 160E Digital Art
ART 161 Fundamentals of Studio Art II
ART 161A Ceramics
ART 161B Painting
ART 161C Printmaking
ART 161D Sculpture
ART 204 Photography
ART 205 Sequencing in Art
MUSIC 010-016, 020, 022, 030, 031, 050-052 (Up to 3 hrs. combined for Core Aesthetics Requirement)
MUSIC 130 Basic Guitar Musicianship
MUSIC 120s, 140s, 240s, 3300s, 340s, 440s, 450s (Up to 3 hrs. combine for Core Aesthetics Requirement)
MUSIC 150 Principles of Music Making
MUSIC 225 Musical Style
MUSIC 226 Music in World Cultures
MUSIC 250 Topics in Music Appreciation
MUSIC 251 Love Songs
MUSIC 252 Music/Drama Across Cultures
MUSIC 253 Teaching Music to Children
MUSIC 381 Music History for Children
TH 203 Theatre Aesthetics
TH 204 Script Analysis
TH 207 The Visual Art of Theatre
TH 208 Vocal Expression of Literature
TH 214 Acting for Non-Majors
TH 303 American Musical Theatre

**Humanities**
CHEM/GEOL/PHYS/PHIL 350 Science as a Cultural Force
ENG 203 American Literature
ENG 210 Bible as Literature
ENG 217 British Literature
ENG 304 Short Story
ENG 308 The Poem
ENG 309 African American Literature
ENG 314 Literature and Gender
ENG 315 German Literature in Translation
ENG 316 Postcolonial Literature
ENG 317 Studies in Shakespeare
ENG 319 Modern Drama
ENG 322 Modern Poetry
ENG 324 Modern Novel
ENG 330 African Literature
ENG 333 American Studies — 19th Century
ENG 334 American Studies — 20th Century
ENG 338 Themes and Topics in Literature
ENG 340 Readings in Jewish Literature
ENG 350 Contemporary American Studies
ENG 360 Literature of Crime & Retribution
ENG 365 Greek Literature
ENG 370 Russian Novel
ENG 372 Nietzsche and the Problem of Values
ENG 353 Heidegger & the Question of Interpretation
FL 353 Quests & Questions in Arthurian Literature, Film, & Life
FREN 353 Introduction to French Literature I
FREN 354 Introduction to French Literature II
PHIL 204 The Concept of Truth
PHIL 208 Major Thinkers in Dialogue
PHIL 210 Philosophy of Human Nature
PHIL 215 Ethics
PHIL 217 Thought and Belief
PHIL 280A Sports and Ethics
PHIL 280B Environmental Ethics
PHIL 280D Medical Ethics
PHIL 280H Workplace Ethics
PHIL 309 Social & Political Philosophy
PHIL 317 Philosophy of Religion
PHIL 318 Topics in Philosophy
PHIL 330 Philosophical Readings
PHIL 450 Great Philosophers
REL 220 Taking Human Life
REL 240 Jewish Religious Traditions
REL 308 Faith and Society
REL 340 Religion & the Civil Rights Movement in America
REL 3SGI Legacy of Paul and Peter in Rome
REL 3SGK Paul in the Greco Roman World
REL 3SGL Luther and the German Reformation
SPAN 372 Survey of Spanish Literature
SPAN 373 Survey of Latin American Literature

Natural Sciences
BIO 100 Human Biology
BIO 107 Plants and Civilization
BIO 110 Ecology & the Human Environment
BIO 111 Wetlands & Waterways
BIO 129 Drugs, Poisons, Pollutants
BIO 1SGC Biology of the Microbes
BIO 201 Molecular & Cellular Basis of Life
BIO 202 Organisms, Adaptation & Diversity
BIO 2SGI Cells-The Basis of Life
CHEM 103 General Chemistry
CHEM 104 General Chemistry
CHEM 250 Lead & Civilization
CHEM 251 Molecular Architecture
CHEM 252 Chemistry of Crime Scene Investigation
CHEM 253 Chemical Perspectives on Life
CHEM/GEOL/PHYS/PHIL 350 Science as a Cultural Force
GEOL 209 Natural Disasters: Volcanoes and Earthquakes
GEOL 210 Natural Disasters: Severe Weather
GEOL 211 Discovering the Ice Age
GEOL 212 Archaeology & Human Antiquity
GEOL 213 Asteroids, Comets & Catastrophism
PHYS 107 The Hidden Life of the Stars
PHYS 2SGC The Science of Sound
PHYS 320 Origins of the Universe

Social Sciences
ECON 101 Market Fundamentals
ECON 232 Principles of Microeconomics
ECON 233 Principles of Macroeconomics
ECON 301 Game Theory
ECON 302 Economics/History of Entrepreneurship
ECON 324 Economics of Government and Business
ECON 331 Comparative Economics
POLSC 101 Understanding Politics
POLSC 345 Western Political Thought III
POLSC 3SG Contemporary Germany
POLSC 431 Human Being and Citizen
PSYC 101 General Psychology I
PSYC 102 General Psychology II
PSYC 218 Psychology of Adolescence
SOC 111 Principles of Sociology
SOC 301 Race Ethnic, and Minority Issues
SOC 340 Marriage and Family Relationships

**Historical Reasoning**
HIST 112 Western Civilization
HIST 113 Western Civilization
HIST 212 American History through Civil War
HIST 213 American History after Civil War

**Critical Cultural Inquiry (CCI) Initiative**
The overall goal of the CCI Initiative is to internationalize our curriculum so as to better prepare students to face conditions of globalization that will greet them upon graduation. The three general paths by which a student can meet this requirement are through language study, travel options, or specially designed coursework.

Students with appropriate military service may elect to complete a narrative illustrating global competencies gained through military service. Students electing this option will enroll in FL 299 and complete a narrative under the direction of the Critical Cultural Inquiry (CCI) Liaison or core director.

**CCI courses**
FL 220 Contemporary Latin American Literature in Translation
FL 221 U.S. – Mexico Border Literature
FL 315 French Women Writers
FREN 151 Elementary French I
FREN 152 Elementary French II
FREN 200 Intermediate Level Intensive French Study Abroad FREN 251 Intermediate French I
FREN 252 Intermediate French II
FREN 300 Advanced Level Intensive French Study Abroad
FREN 301 French Civ. From Lascaux to Versailles
FREN 302 French Civ. From Revolution to Present
FREN 303 French Written Expression
FREN 304 French Stylistics
FREN 305 French Phonetics
FREN 357 French Oral Expression
GER 161 Elementary German I
GER 162 Elementary German II
GER 261 Intermediate German I
GER 262 Intermediate German II
LTN 110 Elementary Latin I
LTN 210 Elementary Latin II
LTN 310 Intermediate Latin
PORT 141 Elementary Portuguese I
PORT 142 Elementary Portuguese II
PORT 241 Intermediate Portuguese I
SPAN 171 Elementary Spanish I
SPAN 172 Elementary Spanish II
SPAN 200 Intermediate Level Intensive Spanish with Study in Costa
Rica
SPAN 271 Intermediate Spanish I
SPAN 272 Intermediate Spanish II
SPAN 300 Advanced Level Intensive Spanish Study
SPAN 307 Spanish Phonetics
SPAN 310 Spanish Grammar and Composition
SPAN 311 Civilization of Spain
SPAN 312 Civilization of Latin America
SPAN 377 Conversational Spanish I
SPAN 278 Conversational Spanish for the Professions

**CCI Study-away and study abroad components:**

- AHA, Segovia, Spain
- All CCIS and USAC programs
- COBE in Taiwan
- COST (Consortium of Overseas Student Teaching)
  - EDEC 460 Sa: ECE
  - EDCI 467 Sa: MG
  - EDCI 461 Sa: AYA
- Paris Fashion Institute Study Away
- AU in Germany
- AU in France
- AU in Costa Rica
- Semester at Sea
- Honors 390 (when approved tour is offered)
- HS 221 (when approved tour is offered)
- HS 380 (when approved tour is offered)
- REL 260 (when approved tour is offered)
- REL 375 Understanding Israel
- COBE in Brazil
- Fontys University in the Netherlands Exchange Program
- Blaise Pascal University in France Exchange Program
- UAB in Spain Exchange Program
- Providence University in Taiwan Exchange Program
### Bachelor of Science with a Comprehensive Major in Biology – Forensic Biology Concentration

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs</th>
<th>Prerequisites</th>
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<tr>
<td><strong>Biology Core:</strong></td>
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<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
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<tr>
<td>BIO 202 Organisms, Adapt. &amp; Divers</td>
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<tr>
<td>BIO 301 Professional Preparation</td>
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<td>Major, Jr. Status</td>
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<tr>
<td>BIO 303 Genetics</td>
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<td>BIO 201 &amp; 6 BIO hrs</td>
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<tr>
<td>BIO 495 Biology Senior Seminar</td>
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<tr>
<td>CHEM 103 General Chemistry I</td>
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<td>H.S. Chem; 3 Yrs. H.S. Math</td>
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<tr>
<td>CHEM 104 General Chemistry II</td>
<td>4</td>
<td>CHEM 103</td>
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<tr>
<td>CHEM 307 Organic Chemistry</td>
<td>3</td>
<td>CHEM 104</td>
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<tr>
<td>CHEM 307L Organic Chemistry Lab</td>
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<td>CHEM 104</td>
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<tr>
<td></td>
<td></td>
<td>26 hrs.</td>
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<tr>
<td>BIO 234 Forensic Science</td>
<td>3</td>
<td>4 hrs. BIO., 4 hrs. CHEM</td>
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<tr>
<td>BIO 428 Molecular Biology</td>
<td>4</td>
<td>BIO 303</td>
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<tr>
<td>BIO 429 Biochemistry</td>
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<tr>
<td>CHEM 308 Organic Chemistry II</td>
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<tr>
<td>CHEM 308L Organic Chem. II Lab</td>
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<tr>
<td>CHEM 320 Quantitative Analysis</td>
<td>4</td>
<td>CHEM 104</td>
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<tr>
<td>CJ 130 Intro to Criminal Justice</td>
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<td>Choose at least one course from each of the following groups:</td>
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<td>Biodiversity Courses:</td>
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<tr>
<td>BIO 207 Botany</td>
<td>(4)</td>
<td>BIO 202</td>
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<td>BIO 219 Entomology</td>
<td>(4)</td>
<td>BIO 202</td>
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<td>Physiology courses:</td>
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<td>BIO 325 Anatomy and Physiology I</td>
<td>(4)</td>
<td>BIO 201</td>
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<tr>
<td>BIO 330 Principles of Toxicology</td>
<td>(3)</td>
<td>BIO 201, 202; CHEM 104</td>
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<td>BIO 425 Advanced Human Physiology</td>
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<td>16 hrs. BIO</td>
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<td>Additional Electives:</td>
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<td>BIO 340 Microbiology</td>
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<td>BIO 201, CHEM 104</td>
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<tr>
<td>BIO 424 Cell Biology</td>
<td>(4)</td>
<td>12 hrs. BIO, BIO 303</td>
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<tr>
<td>BIO 454 Immunology</td>
<td>(4)</td>
<td>BIO 340, 424, or 428</td>
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<tr>
<td>CHEM 420 Instrumental Analysis</td>
<td>(4)</td>
<td>CHEM 320</td>
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<td>Seminar Courses:</td>
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<tr>
<td>BIO 276 Environmental Science Seminar (1)</td>
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<td>BIO 304 Journal Club</td>
<td>(1)</td>
<td>Jr. or Sr. Status</td>
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<td>Criminal Justice Electives:</td>
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<tr>
<td>CJ 200 Criminal Investigation I</td>
<td>(3)</td>
<td>CJ 130</td>
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<tr>
<td>CJ 235 Courts and Justice</td>
<td>(3)</td>
<td>CJ 130</td>
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<tr>
<td>CJ 242 Criminology</td>
<td>(3)</td>
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<tr>
<td>CJ 362 Criminal Law</td>
<td>(3)</td>
<td>CJ 130</td>
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<tr>
<td>CJ 450 Ethics in Criminal Justice</td>
<td>(3)</td>
<td>CJ 130, 362, Sr. Status</td>
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<tr>
<td>Specific math courses for biology core:</td>
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<tr>
<td>MATH 201 Calculus with Applications</td>
<td>(3)</td>
<td>2 yrs. H.S. Alg.; 1 yr. H.S. Geom.</td>
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<td>MATH 205 The Calculus I</td>
<td>(5)</td>
<td>MATH 111 or Equiv.</td>
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<td>MATH 208 Elementary Statistics</td>
<td>(3)</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
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<td>68-72</td>
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</table>
Bachelor of Science in Education with a comprehensive major in French (Multi-Age, PreK-12)

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>Language - 200 Level</td>
<td>6</td>
<td>FREN 251 Intermediate French I (3)</td>
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<td></td>
<td></td>
<td>FREN 152 or Equivalent</td>
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<tr>
<td>FREN 252 Intermediate French II</td>
<td>3</td>
<td>FREN 251 or Equivalent</td>
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<tr>
<td>OR</td>
<td></td>
<td>FREN 252 or Equivalent</td>
</tr>
<tr>
<td>FREN 200 Intermediate French Abroad</td>
<td>6</td>
<td>FREN 152 or Equivalent</td>
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<tr>
<td>Language - 300 Level</td>
<td>9</td>
<td>FREN 303 French Written Expression</td>
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<tr>
<td>FREN 303 French Written Expression</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>FREN 305 French Phonetics</td>
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<td>FREN 200, 252 or Equivalent</td>
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<td>Related concentration:</td>
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<tr>
<td>FREN 304 French Stylistics</td>
<td>3</td>
<td>FREN 303 or Equivalent</td>
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<tr>
<td>FREN 357 French Oral Expression</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>Civilization</td>
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<tr>
<td>FREN 301 French Civ. From Lascaux to Versailles</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>FREN 302 French Civ. From Revol. To Present</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
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<td>Literature</td>
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<tr>
<td>FREN 353 French Lit: Marie De France to Voltaire</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>FREN 354 French Lit: Revolution To Present</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>FREN 351 Intro. to French Fiction I</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>FREN 352 Intro. To French Fiction II</td>
<td>(3)</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>FREN 470 Seminar on French-Speaking World</td>
<td>(3)</td>
<td>FREN 200, 252 or Equivalent</td>
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<tr>
<td>French-Speaking World Studies (literature topic)</td>
<td>(3)</td>
<td>FREN 200, 252 or Equivalent</td>
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<td>Related concentration:</td>
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<tr>
<td>EDIC 230PK Grades PreK-12 Field Exp. I</td>
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<td>EDFN 130, FREN 252</td>
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<td>EDIC 330SEC AYA (7-12) Field Exp. II</td>
<td>3</td>
<td>EDCI 230, 232; PSYC 218; concurrent with EDCI 318</td>
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<tr>
<td>EDEC 262 Found. In Literacy</td>
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<tr>
<td>FL 432 Teaching For. Lang. Pre K-12</td>
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<tr>
<td>A human development course from the Core social sciences</td>
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<tr>
<td>EDIC 232 Intro. to Prin. of Instr. Tech.</td>
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<td>EDIC 469 Student Internship PreK-12</td>
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<td>EDFN 130 Intro. To Teaching</td>
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<td>EDFN 202 Teaching and Learn. Process</td>
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<td>EDFN 402 Social and Prof. Issues</td>
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<tr>
<td>EDIS 250 Intro. Educational Intervention</td>
<td>3</td>
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</tbody>
</table>

Portfolio Courses:
- FL 275 Portfolio Assessment Cycle I 0 Soph. Status
- FL 375 Portfolio Assessment Cycle II 0 FL 275
- FL 475 Portfolio Assessment Cycle III 0 FL 375
- 67 hrs.

Study Abroad
Highly recommended (see Office of Global Education).
Note: Students pursuing the B.S.Ed. must reach Advanced-Low proficiency level in speaking and writing. Study abroad and/or additional coursework is highly recommended to reach proficiency level as needed.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in Spanish (Multi-Age, PreK-12)

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

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<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tr>
<td>Language - 200 Level</td>
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<td>SPAN 271 Intermediate Spanish I (3)</td>
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<td>SPAN 271 Intermediate Spanish I</td>
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<td>SPAN 172 or Equivalent</td>
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<td>SPAN 172 or Equivalent</td>
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<td>SPAN 200 Inter. Int. Spanish Abroad</td>
<td>(6)</td>
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<td>Language - 300 Level</td>
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<td>SPAN 307 Spanish Phonetics</td>
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<td>SPAN 310 Spanish Grammar &amp; Comp</td>
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<tr>
<td>SPAN 310 Spanish Grammar &amp; Comp</td>
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<td>SPAN 311 Civilization of Spain</td>
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<td>SPAN 312 Civilization of Latin America</td>
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<td>SPAN 476 Seminar in Hispanic Studies</td>
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EDEC 262 Found. In Literacy
FL 432 Teaching For. Lang. Pre K-12
A human development course from the Core social sciences
EDIC 232 Intro. to Prin. of Instr. Tech.
EDIC 469 Student Internship PreK-12
EDEN 130 Intro. To Teaching
EDEN 202 Teaching and Learn. Process
EDEN 402 Social and Prof. Issues
EDIS 250 Intro. Educational Intervention
EDFN 130, FREN 252
EDC1 230, 232; PSYC 218; concurrent with EDCI 318
None
All Student Internship Req.
None
EDFN 130
Sr. Status; concurrent with EDCI 469
EDCF 469
EDFN 130, SPAN 272, EDCI 230, 232; PSYC 218; concurrent with
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<td>All Student Internship Req; concurrent with EDFN 402</td>
</tr>
<tr>
<td>EDFN 130</td>
<td>Intro. To Teaching</td>
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<tr>
<td>EDFN 202</td>
<td>Teaching and Learn. Process</td>
<td>3</td>
<td>EDFN 130</td>
</tr>
<tr>
<td>EDFN 402</td>
<td>Social and Prof. Issues</td>
<td>2</td>
<td>Sr. Status; concurrent with EDCI 469</td>
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<tr>
<td>EDIS 250</td>
<td>Intro. Educational Intervention</td>
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<tr>
<td>FL 275</td>
<td>Portfolio Assessment Cycle I</td>
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<td>Soph. Status</td>
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<td>FL 375</td>
<td>Portfolio Assessment Cycle II</td>
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<tr>
<td>FL 475</td>
<td>Portfolio Assessment Cycle III</td>
<td>0</td>
<td>FL 375</td>
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</tbody>
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**Portfolio Courses:**

- FL 275 Portfolio Assessment Cycle I 0 Soph. Status
- FL 375 Portfolio Assessment Cycle II 0 FL 275
- FL 475 Portfolio Assessment Cycle III 0 FL 375

**Study Abroad**

Highly recommended (see Office of Global Education).

Note: Students pursuing the B.S.Ed. must reach Advanced-Low proficiency level in speaking and writing. Study abroad and/or additional coursework is highly recommended to reach proficiency level as needed.

**Plus Institutional Baccalaureate Degree Requirements.**
## Course Descriptions

<table>
<thead>
<tr>
<th>Course Abbreviations</th>
<th>ACCOUNTING (ACCT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>FINANCIAL ACCOUNTING 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> None</td>
<td></td>
</tr>
<tr>
<td>The first of a two-course sequence in basic accounting. This course develops an understanding of the basic elements of financial accounting. Students are introduced to accounting concepts, procedures, and terminology. Topics covered include processing of transactions through the accounting cycle, applying generally accepted accounting principles, and preparing and interpreting of financial statements.</td>
<td></td>
</tr>
<tr>
<td>ACCT 202</td>
<td>MANAGERIAL ACCOUNTING 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 201</td>
<td></td>
</tr>
<tr>
<td>The second of a two-course sequence in basic accounting. This course develops an understanding of the basic elements of managerial accounting. Students are introduced to accounting information for the purpose of making informed business decisions. Topics covered include the accounting information necessary for managers to plan operations, control activities, evaluate performance, and make decisions.</td>
<td></td>
</tr>
<tr>
<td>ACCT 205</td>
<td>ACCOUNTING INFORMATION SYSTEMS 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 201, IS 221</td>
<td></td>
</tr>
<tr>
<td>A study of the accounting information system as a component of an integrated enterprise system. The information system will be analyzed to identify weaknesses and recommend improvements to internal control. System documentation techniques are studied</td>
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<tr>
<td>ACCT 206</td>
<td>FORENSIC ACCOUNTING 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 201</td>
<td></td>
</tr>
<tr>
<td>This course provides an introduction to the areas of forensic accounting and fraud investigation in organizations with an emphasis on its detection and prevention. It examines the nature and causes of financial and occupational fraud, ways to prevent and deter fraudulent conduct, and procedures for uncovering and investigating fraud.</td>
<td></td>
</tr>
<tr>
<td>ACCT 207</td>
<td>INTERMEDIATE ACCOUNTING I 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 201</td>
<td></td>
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<tr>
<td>A review of the fundamental accounting processes followed by a detailed analysis of the contents of the balance sheet, income statement and statement of cash flows.</td>
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</tr>
<tr>
<td>ACCT 208</td>
<td>INTERMEDIATE ACCOUNTING II 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 207</td>
<td></td>
</tr>
<tr>
<td>A detailed analysis of financial reporting under Generally Accepted Accounting Principles. Emphasis is placed on the accounting treatment and disclosures required for balance sheet items (assets, liabilities, and owner’s equity).</td>
<td></td>
</tr>
<tr>
<td>ACCT 302</td>
<td>COST MANAGEMENT 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 202</td>
<td></td>
</tr>
<tr>
<td>An in-depth study of selected cost and management accounting topics. The purpose of the course is to provide future managers with the cost accounting methods used to determine product costs for internal, management, and external financial reporting.</td>
<td></td>
</tr>
<tr>
<td>ACCT 308</td>
<td>FEDERAL INCOME TAXATION OF INDIVIDUALS 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 201, IS 221</td>
<td></td>
</tr>
<tr>
<td>A study of federal income tax law as it relates to the individual taxpayer including gross income, exclusions, deductions, capital gains and losses, tax credits and the Alternative Minimum Tax.</td>
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</tr>
<tr>
<td>ACCT 309</td>
<td>FEDERAL INCOME TAXATION OF BUSINESS 3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ACCT 201, IS 221</td>
<td></td>
</tr>
<tr>
<td>A study of federal income tax law as applied to various forms of business entities, including sole proprietorships, C corporations, S corporations and partnerships.</td>
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</tr>
</tbody>
</table>
ACCT 321  BUSINESS SPREADSHEETS  3
Prerequisite: IS 221 (taken in the last 4 years), ACCT 201
An advanced study of the development and implementation of spreadsheet applications as used in business applications, including worksheet design, problem organization and results presentation. The course prepares the student for the Microsoft Office Excel certification exam.

ACCT 406  AUDITING AND PROFESSIONAL ETHICS  3
Prerequisite: ACCT 205, ACCT 207, and MATH 208
A study of auditing principles and procedures including the study of internal control to prevent fraud, the professional ethics and legal responsibilities of the public accountant and the preparation of working.

ACCT 410  LAW AND PROFESSIONAL RESPONSIBILITY FOR ACCOUNTANTS  3
Prerequisite: MGT 401
This course is intended for students planning to sit for the CPA exam. The topical coverage is derived from that exam’s content specifications and includes, but is not limited to: UCC Articles 2, 3, 7, and 9; securities regulations; other debtor-creditor relationships and bankruptcy; and the professional responsibilities and liabilities of CPAs.

ACCT 440  ADVANCED ACCOUNTING  3
Prerequisite: ACCT 208
A study of topical advanced accounting issues such as business combinations and consolidation accounting, accounting for international (i.e. foreign currency) transactions and translations, interim and segment reporting, governmental and not-for-profit accounting, and partnership accounting.

ACCT 453  SPECIAL TOPICS FOR ACCOUNTING  3
Prerequisite: ACCT 208
A course devoted to various topics related to current issues in accounting. May be repeated once for different topics with the approval of accounting faculty.

Art (ART)

ART 130  ELEMENTS OF DESIGN  3
Prerequisite: Note: not open to students who have taken ART 134 or ART 135
A fundamental study of two-dimensional application of visual elements and principles of design. Students will explore composition through line, shape, value, texture, and color, and will be introduced to and use various materials and design techniques. For non-art majors. Meets Core credit for aesthetics.

ART 133  COLOR THEORY  3
Prerequisite: None
An exploration of both Munsell and Albers color theory systems, with an emphasis on the ways in which the elements of color interact in compositions. The focus of the course is developing a disciplined approach to the use of color, and gaining experience in the mixing and application of colors using acrylic paints. Students will examine the ways in which the properties of color affect the elements of design, specifically the illusion of space and light, and also the ways in which we receive and process color information.

ART 134  2-D DESIGN  3
Prerequisite: None
This course is an intense study of the principles of 2-D design aesthetics and processes. Students will learn how to use compositional devices such as line, value, texture, shape, balance, and rhythm to create successful designs.

ART 135  3-D DESIGN  3
Prerequisite: None
This course is an intense study of the principles of 2-D design aesthetics and processes. Students will learn how to use compositional devices such as line, value, texture, shape, balance, and rhythm to create successful designs.

ART 140  FUNDAMENTALS OF DRAWING  3
(NON-MAJORS)
Prerequisite: Note: not open to students who have taken ART 141
This fundamental course provides a variety of approaches to improve individual skills in drawing. Attention to line, shape, value, texture, and perspective are used to develop an understanding of what we see in relation to how we represent them visually. For non-art majors.

Meets Core credit for aesthetics.

ART 141  DRAWING I  3
Prerequisite: None
Accepts students with the fundamental nature of the drawing process. Emphasis is on the observation and analysis of simple forms through a variety of approaches, such as gesture, contour, cross-contour, and value drawing. Introduces the student to such elements of form as proportion, shape, mass, light, and space, as well as compositional structure. Particular emphasis is placed upon the understanding of spatial devices, including linear perspective and various ways of using value and line weight to create and deny space.

ART 150  ART & IDEAS  3
Prerequisite: Note: Open to students who have taken ART 256 or ART 257
A combined visual and thematic introduction to Western art. The form and content of painting, sculpture, architecture, and graphics will be studied through a series of themes and purposes. Students will investigate the interplay of form and meaning of art objects from multiple eras through such themes as death and the macabre, entertainment, power and politics, religious beliefs, and landscape and the environment. The course introduces many of the issues associated with the visual arts including iconoclasm, restoration, aesthetic quarrels, and questions of cultural property. Meets Core credit for aesthetics.

ART 160  FUNDAMENTALS OF STUDIO ART  3
160A CERAMICS
160B PAINTING
160C PRINTMAKING
160D SCULPTURE
160E DIGITAL ART
Prerequisite: None
This course is an exploration of the processes and philosophies of various studio art disciplines. Using the study of traditional studio topics (Ceramics, Painting, Printmaking, Sculpture, or Digital Art - subjects will vary each semester), students will learn the principles of art aesthetics, studio processes, and a general history of the relevant discipline. This course is designed for non-art majors to fulfill institutional core requirements in aesthetics, and is not open to students who have taken ART 211, 261, 271, or 281 respectively. Students may take two different topics to fulfill Core aesthetics requirements, but they may not repeat the same topic for credit.

ART 161  FUNDAMENTALS OF STUDIO ART II  3
160A CERAMICS
160B PAINTING
160C PRINTMAKING
160D SCULPTURE
160E DIGITAL ART
Prerequisite: ART 160 in the appropriate studio area
This course is a continuation of the introduction to the aesthetic processes and philosophies of various studio art disciplines developed in ART 160. By studying more advanced problems in traditional studio topics (Ceramics, Painting, Printmaking, or Sculpture), students will become acquainted with the wide range of options, and the decisions necessary, of studio artists. The course delves more deeply into the visual art aesthetic, studio processes, and the general history of the relevant discipline. This course is designed for non-art majors to fulfill institutional Core requirements in aesthetics.
ART 204  PHOTOGRAPHY  3
Prerequisite: None
A course dealing with the process and principles of digital photography. Technical and aesthetic considerations will be explored. Adobe Photoshop will be the software used in this class and students are expected to provide their own digital camera. Meets Core credit for aesthetics.

ART 205  SEQUENCING IN ART  3
Prerequisite: ART 204
This course explores how groups of images called sequences are used in art. This is done through the study of filmmakers and fine artists who have focused on the use of sequence in their own work. The lecture component of this class is balanced by studio practice, during which students learn to convey conceptual meaning and aesthetic relationships through specific image arrangements in digital video and photographic mediums.

ART 206  DIGITAL ART I  3
Prerequisite: ART 134
This course covers the fundamentals of computer technology and allows the student to explore a range of techniques using Adobe Photoshop, Adobe Illustrator, and QuarkXPress. The latest developments in the field of computer graphics will be covered where applicable. The course is structured to increase the students' understanding of metaphor in artistic production, increase the students' ability to create two-dimensional artworks using computers and their peripheral devices, and to discuss the ways contemporary artists use technology in art.

ART 211  CERAMICS I  3
Prerequisite: None
An introduction to wheel throwing and hand built processes necessary to the formation of functional and nonfunctional vessels.

ART 221  ART EDUCATION THEORY AND PRACTICE FOR EARLY AND MIDDLE GRADES  3
Prerequisite: None
Provides a comprehensive overview of the ideas and concepts that inform the contemporary teaching of art at the early and middle grade level. In addition, it provides hands-on experiences and practical information for the day-to-day procedures and management of early and middle grades classrooms.

ART 222  ART EDUCATION METHODS FOR EARLY CHILDHOOD  3
Prerequisite: None
Focuses on the importance of the acquisition of visual art skills in the development of the very young. Provides an overview of methodologies, techniques, and practical knowledge to enable the early childhood educator to provide appropriate art experiences to their students.

ART 231  GRAPHIC DESIGN I  3
Prerequisite: ART 160E or 206; ART 133
Through a combination of lecture and studio work students will be introduced to the fundamentals of typography in relation to various design applications. The course will cover the history of typography, the study of letterforms, typeface selection, classifications, and terms.

ART 242  DRAWING II  3
Prerequisite: ART 141
A continuation of approaches learned in Drawing I and incorporation of 2-D Design principles. Emphasis is placed on observation and analysis of more complex forms, value drawing, and successful integration of design in overall compositional form. Study of the human figure through the use of a live model will be included.

ART 256  WESTERN ART I  3
Prerequisite: None
This course examines the history of art as it appeared in different periods and cultural contexts from the Old Stone Age to the Medieval Period, specifically the architecture, painting, and sculpture in terms of style and technique, and the ways in which they evolved. The course also examines the position of art and of the artist in society, the ways in which various cultures have used the visual arts, and the ideas which art expressed.

ART 257  WESTERN ART II  3
Prerequisite: None
This course examines the history of art as it appeared in different periods and cultural contexts from the Renaissance to the present day, specifically the architecture, painting, sculpture, and graphics in terms of style and technique, and the ways in which they evolved. It also examines the position of art and of the artist in society, the ways in which various cultures have used the visual arts, and the ideas which art expressed. The focus will be on the art of Europe, but special attention will be given to the contributions of American artists to the history of art during the 19th and 20th centuries.

ART 261  PAINTING I  3
Prerequisite: ART 141
This course acquaints the student with the fundamentals of the painting process. The basics of color theory and drawing are applied in a series of observational paintings in a variety of styles and techniques. Oil and acrylic painting media are explored in depth, as is the nature of the painted mark and the painted surface. Students also learn about solvents and mediums, and have experience making supports and grounds.

ART 271  PRINTMAKING  3
Prerequisite: None
Introduction to a variety of printmaking techniques and discussion of historical and contemporary issues in printmaking. Semesters will rotate among relief methods, intaglio methods, and planographic methods.

ART 281  SCULPTURE I  3
Prerequisite: None
This course introduces the fundamental sculptural processes of addition, subtraction, and substitution. Emphasis will be on executing, understanding and discussing quality craft, successful composition, productive conceptualization and creative problem solving. Students will explore various sculptural methods which may include steel fabrication, wood construction, plaster construction, assemblage and mold making.

ART 307  DIGITAL ART II  3
Prerequisite: ART 206
This course emphasizes time-based media design. Students will be introduced to a range of basic HTML and multimedia content authoring tools in a series of class demonstrations and workshops. Contemporary theory examining the cultural impact and history of the internet will be discussed. Students will be encouraged to develop simple 2D animation and basic web design skills. Programs used will be Dreamweaver, Photoshop, Illustrator, QuarkXPress, Flash, and Macromedia Director. Special emphasis will be placed upon art on the Internet and the World Wide Web as a means for visual communication. Students will integrate their knowledge of typography, illustration, photography, and other traditional print media with the time-based and sequencing capabilities of the web.

ART 312  CERAMICS II  3
Prerequisite: ART 211
A continued exploration of both wheel thrown and hand built vessels with emphasis on form. Various techniques of glaze formulation and approaches to firings will be investigated.

ART 332  GRAPHIC DESIGN II  3
Prerequisite: ART 206 or 231
This course is an introduction to the elements and principles of print and web design systems. The focus will be on organizing and integrating type and images into visually compelling layouts for affective communication across variable media. Concept development, client base, and production procedures will be covered. This course will provide a basic understanding of methods and techniques used to construct, design and maintain a web site. Discussion of design theory will address the principles behind successful visual communication. Current software and programming languages will be taught in
relation to contemporary site construction and as they relate to primarily design issues. Web site maintenance will cover the preliminary organization and ongoing steps involved with keeping a web site current and up-to-date. Adobe software will be utilized with a focus on Adobe InDesign and Dreamweaver.

**ART 343**
**DRAWING III**  
**Prerequisite:** ART 242  
Advanced studio problems in drawing are individually established and implemented according to content, process, and formal analysis. Focus will be on the development of a personal style and direction.

**ART 344**
**DRAWING IV**  
**Prerequisite:** ART 343  
Students will continue to develop the techniques and concepts investigated in Drawing III. A continued emphasis on individual growth and analysis of formal structure will be essential as the student focuses on a cohesive body of work.

**ART 345**
**DRAWING V**  
**Prerequisite:** ART 344  
Students will continue to develop the techniques and concepts investigated in Drawing III and IV. The student will focus on a cohesive body of work that exemplifies a refinement that is both visual and technical.

**ART 346**
**ILLUSTRATION**  
**Prerequisite:** ART 134, ART 141, ART 242  
This course serves as an introduction to a variety of illustration techniques and practices.

**ART 352**
**ART OF THE RENAISSANCE**  
**Prerequisite:** None  
A review of late medieval, Byzantine painting and sculpture precedes a study of early Italian art of the fifteenth century. The development of the sixteenth century is traced through the work of da Vinci, Michelangelo, and Raphael. Covers how societal and church concerns affected the development of the late Renaissance style. The art of Italy and that of Flanders and Germany are contrasted.

**ART 353**
**BAROQUE AND ROCOCO ART**  
**Prerequisite:** None  
The development of seventeenth century baroque art is traced through the painting and sculpture of Italy, France, Spain, England, and the northern and southern Netherlands. The eighteenth century or rococo style is viewed primarily as a modification of the baroque with emphasis on the personal, the aristocratic, and the decorative. Study of the period continues through the classical revival of the Louis XVI period to the French revolution.

**ART 354**
**19TH CENTURY ART**  
**Prerequisite:** None  
This course examines the major artistic movements and stylistic developments in Europe from ca. 1789-1900. Major movements include Neo-Classicism, Romanticism, Realism, Impressionism, Post-Impressionism, and Symbolism.

**ART 356**
**20TH CENTURY ART**  
**Prerequisite:** None  
This course examines the major artistic movements and stylistic developments in both Europe and the United States from 1900 to 1999. The rise of Modernism as well as Post-Modernist trends will be considered. Major movements include Cubism, Surrealism, Abstract Expressionism, Pop Art, Minimalism, and Neo-Expressionism.

**ART 356**
**HISTORY OF DESIGN**  
**Prerequisite:** ART 133, ART 134, ART 135  
A survey of graphic communication introduced by formal analysis of major works of graphic design within the context of their time and influence on later works. This course highlights significant events in communication and graphic design throughout history.

**ART 362**
**PAINTING II**  
**Prerequisite:** ART 261  
Students use the basic techniques developed in Painting I to begin to establish a personal investigation. Students are expected to do a series of experiments aimed at building a body of consistent work. The technical and formal aspects of the painting process are augmented by critique and class discussion as students identify conceptual concerns and begin to tie their studio practice to the exploration of content.

**ART 372**
**PRINTMAKING II**  
**Prerequisite:** ART 271  
Emphasis is placed on development of the technical skills introduced in Printmaking I. One or two processes will be explored from the categories of monoprint, wood/linocut, engraving, etching, calligraphy, serigraphy and lithography.

**ART 382**
**SCULPTURE II**  
**Prerequisite:** ART 281  
This course requires students to pick a specific sculptural material and to thoroughly examine its properties, qualities and characteristics for three-dimensional expression. This will allow the student to produce a body of work that reflects personal interest. Emphasis will be on experimentation, the development of technical skill, and creative problem solving.

**ART 408**
**DIGITAL ART III**  
**Prerequisite:** ART 307  
This course emphasizes more advanced problems in digital art. Students will be encouraged to establish a unique artistic practice while developing a cohesive body of work. Considerable responsibility and autonomy will be required of the students. Students are encouraged to work on out-of-the-box experiments with digital tools such as installations, mixed media, and alternative presentations.

**ART 409**
**DIGITAL ART IV**  
**Prerequisite:** ART 408  
This course emphasizes more advanced problems in digital art. Students will be encouraged to build and expand upon their artistic practice and body of work that was developed in ART 408. Considerable responsibility and autonomy will be required of the students. Students are encouraged to work on out-of-the-box experiments with digital tools such as installations, mixed media, and alternative presentations.

**ART 410**
**DIGITAL ART V**  
**Prerequisite:** ART 409  
This course emphasizes more advanced problems in digital art. Artistic investigations from previous classes coupled with continued exploration and growth should allow the students to achieve a highly developed body of work. Considerable responsibility and autonomy will be required of the students. Students are encouraged to work on out-of-the-box experiments with digital tools such as installations, mixed media, and alternative presentations. A clear defense of individualized working practice and content should be established.

**ART 413**
**CERAMICS III**  
**Prerequisite:** ART 312  
An advanced course in which the development of throwing skills, glaze formulation, and firing proficiency is emphasized. The student is encouraged to develop a personal experience of form and direction

**ART 414**
**CERAMICS IV**  
**Prerequisite:** ART 413  
Students will continue to make advanced in wheel-thrown and hand-built vessels while furthering their exploration of form and style. Students in this course will take on more independent investigations into glaze formulation and application and continue experimenting in a variety of approaches to firings. A more thorough evaluation of historical and contemporary issues in ceramics will be addressed.
ART 415  CERAMICS V  3
Prerequisite: ART 414
This course continues the progress made in Ceramics III and IV with students expected to clarify their vision for a cohesive body of work. A refinement of sophistication and vision should accompany the body of work. BFA students taking this course in conjunction with ART 490 should align their body of work with the ideas developed in the thesis abstract.

ART 432  TEACHING ART, GRADES 7-12  3
Prerequisite: ART 134, ART 141
Clinical Hours: 4 A course designed to provide the student with classroom instructional skills, methods, and strategies in teaching grades 7-12. This class is to be completed successfully prior to the Internship.

ART 433  GRAPHIC DESIGN III  3
Prerequisite: ART 332
This course is an introduction to the elements and principles of controlling rhetorical messaging via graphic design systems. The focus will be on how specific use of type and images can affect communication most effectively across variable media. Client branding, interpreting market research, message targeting for demographic groups, and product packaging concepts will be covered.

ART 434  GRAPHIC DESIGN IV  3
Prerequisite: ART 433
This course puts previous exploration into context and students make final preparations for launching into the design industry. The focus will be on how specialties in the design industry require demonstration of specific skill proficiencies. Personal branding, presenting compatible client work, portfolio creation and maintenance will be covered. This course also examines the role of a graphic designer in society and prepares students for their role as participants in contemporary cultural production by focusing on presentation skills and professionalism.

ART 452  TOPICS IN ART  3
Prerequisite: None
An in-depth study of major movements and ideas in art. Some topics have included: art and popular culture of the 1960s; art and technology; and American folk art.

ART 463  PAINTING III  3
Prerequisite: ART 362
Students continue to develop their investigations in a medium style appropriate to their content. Emphasis is placed on consistency of approach and sensitivity to materials and the creative process. The ability to write about one's work becomes increasingly important. Students are expected to maintain a sustained output of work.

ART 464  PAINTING IV  3
Prerequisite: ART 463
Students further refine their skills appropriate to their artistic intent in preparation for the creation of an exhibition-ready body of work. As they develop their painting investigations and their art writing skills, students are challenged to develop the conceptual nuances that characterize the professional fine artist. Issues of scale, style, and viewer interpretation become increasingly important.

ART 465  PAINTING V  3
Prerequisite: ART 464
In ongoing studio investigations, the student develops the capability to produce a body of exhibition-quality work. All elements of the artistic process, including the formal, the conceptual, and the expository, should coalesce to support the body of work. When taken in conjunction with ART 490 this course represents the visual reflection of the ideas developed in the thesis abstract.

ART 473  PRINTMAKING III  3
Prerequisite: ART 372
Advanced studio problems in printmaking are individually established and implemented according to content, process, and formal analysis. Focus will be on development of personal style and direction.

ART 474  PRINTMAKING IV  3
Prerequisite: ART 473
A continuation of Printmaking III that further establishes and implements advanced studio problems in printmaking according to content, process, and formal analysis. Increased focus will be on development of personal style and direction.

ART 475  PRINTMAKING V  3
Prerequisite: ART 474
Expanding on the progress of Printmaking III and IV, this course pushes students to establish the capability to produce exhibition-quality work by further addressing advanced studio problems in printmaking according to content, process, and formal analysis. A continued refinement of personal style and direction will be expected.

ART 483  SCULPTURE III  3
Prerequisite: ART 382
This course focuses on the relationship between idea, form and material. Students will be required to produce a series of sculptures that explore one specific personal or social issue of their choice. Metaphor and symbolism will be examined and used as a vehicle for communicating meaning. Emphasis will be placed on the unity of the body of work being produced as well as on clarity, craftsmanship, and presentation.

ART 484  SCULPTURE IV  3
Prerequisite: ART 483
Students will further refine their ideas on the relationship between idea, form, and material. Students will be required to produce a series of sculptures that explore one specific personal or social issue of their choice. It will be expected that part of their refinement will include more serious metaphor and symbolism use as students continue to expand the ability to communicate meaning through their work. Emphasis will be placed on the unity of the body of work being produced as well as on clarity, craftsmanship, and presentation.

ART 485  SCULPTURE V  3
Prerequisite: ART 484
This course will further challenge the student to create a cohesive body of work that exemplifies the culminating efforts of the preceding sculpture courses. The expectations on craftsmanship and artistic refinement are increased, along with those pertaining to the student's understanding of their relationship to the art world. For BFA students taking this course in conjunction with ART 490, their body of work should represent the visual reflection of the ideas developed in the thesis abstract.

ART 490  MAJOR THESIS PREPARATORY  3
Prerequisite: BFA Status; twelve hours of studio concentration
This course prepares students for the thesis writing process. The instructor of the student’s major area will serve as the instructor of record for the class, assisted by the thesis committee, composed of the instructor of the student’s minor along with two other faculty members from the Art Department and one faculty member from outside the Art Department of the student’s choosing. This committee will oversee the development of research strategies and the preparation and development of thesis drafts, including the formulation of the thesis statement, research into historical and contemporary influences, and the development of an abstract and rough draft of the thesis.

ART 491  MAJOR THESIS  3
Prerequisite: ART 490; to run concurrently with ART 492 Studio Capstone
This course formulates the ideas and drafts of Major Thesis Preparatory into a final written thesis, and provides for its oral defense in conjunction with the student's senior exhibition. Working with the same committee as in Major Thesis Preparatory, students refine their ideas about, and approaches to, the artistic process into a document that references historical and contemporary influences.
ART 492  STUDIO CAPSTONE  3
Prerequisite: BFA Status; twelve hours of studio concentration
This is the final course of the BFA student's concentration. Students are expected to engage in a rigorous refinement of the personal style and direction previously established in their major area, and to develop a body of work for their senior exhibition. Five sections are offered each semester (Ceramics, Computer Art, Painting, Printmaking, and Sculpture) as necessary.

ART 497  SENIOR SEMINAR  1
Prerequisite: None
This course introduces guidelines for portfolios, resumes, and professional display and documentation of artwork. It is taken in conjunction with the senior exhibition requirement. Students must pass the exhibition requirement of this course to graduate. Graded S/U.

ATHLETIC TRAINING (ATR)

ATR 165  PRINCIPLES OF ATHLETIC TRAINING  3
Prerequisite: None
Provides an overview of the sports medicine team and the components of a comprehensive athletic health care program including preseason examinations and screenings. Injury prevention, basic injury description and management, training room management, and the application of taping, wrapping, protective padding and first aid modalities will also be covered in the course.

ATR 166  CPR/AED FOR THE PROFESSIONAL RESCUE  1
Prerequisite: None
A concentrated study of preventive and remedial techniques related to safety and first aid. Successful completion of the course may certify one in CPR/AED for the Professional Rescuer and Health Care Provider and Standard First Aid

ATR 167  BASIC SKILLS IN ATHLETIC TRAINING  1
Prerequisite: ATR 165 or concurrent
The first clinical experience in the AT program. Content will include basic skills involved with emergency care procedures, transportation, taping and wrapping, custom protective padding and emergency splinting.

ATR 170  FUNCTIONAL & PALPATION ANATOMY  2
Prerequisite: None
A detailed explanation of musculoskeletal anatomy with an emphasis on palpation skills, bony landmarks, and muscle/origin/insertion/action

ATR 270  AT CLINICAL FIELD EXPERIENCE I  2
Prerequisite: Formal admission into the athletic training program.
Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Location of the field experience will be determined by the student's career goals and academic preparation.

ATR 271  AT CLINICAL FIELD EXPERIENCE II  2
Prerequisite: ATR 270
Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 270 by adding upper extremity clinical application to the experience. Location of the field experience will be determined by the student's career goals and academic preparation.

ATR 272  INJURY RECOGNITION & MANAGEMENT OF THE LOWER EXTREMITY  2
Prerequisite: None
Prepares students in the evaluation, recognition, and management of athletic injuries to the lower extremity.

ATR 273  CLINICAL EXPERIENCE IN ATHLETIC TRAINING I  1
Prerequisite: ATR 167, ATR 272 concurrently
Develop the student's clinical proficiencies in the evaluation, recognition, and management of athletic injuries to the lower extremities.

ATR 274  INJURY RECOGNITION & MANAGEMENT OF THE UPPER EXTREMITY  3
Prerequisite: None
Prepares students in the evaluation, recognition, and management of athletic injuries to the upper extremity.

ATR 275  CLINICAL EXPERIENCE IN ATHLETIC TRAINING II  1
Prerequisite: ATR 167, ATR 274 concurrently
Develop the student’s clinical proficiencies in the evaluation, recognition, and management of athletic injuries to the upper extremity.

ATR 279  THERAPEUTIC INTERVENTIONS I  4
Prerequisite: None
Provides students with the foundational knowledge in the theory, application, and treatment protocols for the lower extremity, which includes a broad range of interventions, methods, techniques, equipment, activities using body movement, and medications. Modalities will also be covered.

ATR 354  MEDICAL & ORTHOPEDIC ASPECTS IN ATHLETIC TRAINING  4
Prerequisite: None
Provides students with the foundational knowledge in the theory, application, and treatment protocols for general medical conditions and the spine. This includes taking a history, observation, palpation, range of motion, special tests, neurological assessment, circulatory assessment and functional assessment.

ATR 371  THERAPEUTIC INTERVENTIONS II  4
Prerequisite: None
Provides students with the foundational knowledge in the theory, application, and treatment protocols for the upper extremity, which includes a broad range of interventions, methods, techniques, equipment, activities using body movement, and medications.

ATR 373  AT CLINICAL FIELD EXPERIENCE III  2
Prerequisite: ATR 271
Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 270 and 271 by adding therapeutic exercise and rehabilitation clinical application to the experience. Location of the field experience will be determined by the student's career goals and academic preparation.

ATR 375  AT CLINICAL FIELD EXPERIENCE IV  2
Prerequisite: ATR 373
Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 270, 271, and 373 by adding therapeutic exercise and rehabilitation clinical application to the experience, focusing primarily on the upper extremity. Location of the field experience will be determined by the student's career goals and academic preparation.

ATR 376  THERAPEUTIC INTERVENTIONS III  4
Prerequisite: None
Provides students with the foundational knowledge in the theory, application, and treatment protocols for the spine, posture, gait, and special populations, which includes a broad range of interventions, methods, techniques, equipment, activities using body movement, and medications.

ATR 420  ORGANIZATION AND ADMINISTRATION IN ATHLETIC TRAINING  3
Prerequisite: Intro Course (ATR 165 or SMG 161)
The basic administrative aspects of a comprehensive athletic training program. Covers competencies in the content areas of risk management, health care administration, and professional development, and responsibilities.
BIO 100  HUMAN BIOLOGY  4
Prerequisite: None
This course addresses the questions of what it means for cells to be alive and how individual cells are integrated into a complex, self-regulating human organism capable of survival in its own right. This includes an examination of the functions of cells, the idea of homeostasis (physiological equilibrium) and the mechanisms of disease. Three lectures and one two-hour laboratory per week. This course does not count toward a biology major or minor. Offered every semester and online during the summer. Meets Core Credit for natural sciences.

BIO 107  PLANTS AND CIVILIZATION  3
Prerequisite: None
An examination from a global perspective of the role that plants have played in the history of civilization, with consideration of the biology and chemistry of plants, their availability in different parts of the world, and their uses for food, fiber, beverages, and medicine. Current issues in agriculture and plant biotechnology are also considered. Two lecture-discussion periods and one two-hour laboratory per week. This course does not count toward a biology major or minor. Meets Core Natural Science requirements. Offered each Spring.

BIO 110  ECOLOGY AND THE HUMAN ENVIRONMENT  4
Prerequisite: None
This course examines the characteristics of ecosystems, the ways in which they change with time, and the impact of human activities on those changes. Included in this will be the study of the science behind current issues such as biologic al resource management, pollution, and global climate change. Three lectures and one two-hour lab per week. This course does not count toward a biology major or minor. Offered each semester. Meets Core credit for natural sciences.

BIO 111  WETLANDS AND WATERWAYS  3
Prerequisite: None
This course is organized around the central question: How does the cycling of water shape the world in which we live? This course will use scientific method to investigate the ecological roles of aquatic ecosystems (streams and rivers, lakes, wetlands, groundwater) and to study the ways in which humans and other species alter the functioning of these ecosystems. Students will practice a variety of investigative techniques from library study to field and laboratory work, and they will exercise their skills in critical thinking and analysis. Written and oral communications will also be emphasized. This course does not count toward a biology major or minor. Meets Core credit for natural sciences. Not currently on the standard rotation.

BIO 125-126  ANATOMY & PHYSIOLOGY I & II  3-3
Prerequisite: BIO 125 for 126
A systematic study of the structure and function of the vertebrate body with particular reference to man. Two one-hour lectures and one two-hour laboratory per week. Offered each year.

BIO 129  DRUGS, POISONS, POLLUTANTS, AND THE HUMAN PERCEPTION OF RISK  3
Prerequisite: None
In this course, students will learn about the basic principles of toxicology, the study of poisons and their effects on the body. Discussions will revolve around the central theme of risk as it relates to potentially toxic chemicals that we are exposed to in our everyday lives. Specifically, students will learn to distinguish between chemicals that are truly dangerous and those that are only perceived to be dangerous by critically evaluating competing predictions of toxicity from potentially biased rival sources. They will also learn how to assess the actual risk posed to living organisms from contamination, which is often contrary to the information that is presented to the public by various media, industry, and environmental groups. In addition, students will learn how contamination produced on a local scale can ultimately become a risk to the entire global community. This course does not count toward a biology or toxicology major or minor. Meets Core requirement for natural sciences.

BIO 130  INTRODUCTION TO TOXICOLOGY  1
Prerequisite: None
Introduction to the science of toxicology focusing on broad general principles and their applications to current issues and events. Not currently on the standard rotation

BIO 201  MOLECULAR & CELLULAR BASIS OF LIFE  4
Prerequisite: High school biology and chemistry or equivalent strongly recommended
This course centers on the question: What are the molecular and cellular processes that define life, and how are they sustained from generation to generation? In the process of studying this question, students will have the opportunity to examine the application of the scientific method to the study of the fundamentals of cellular structure and function, as well as to investigate the molecular transmission of information from generation to generation and the integration of cells into whole functioning organisms. Three lectures and one 2-hour lab per week. This course is designed for science majors and those planning careers in the health sciences. Meets Core credit for natural sciences. Offered each semester.

BIO 202  ORGANISMS, ADAPTATION, AND DIVERSITY  4
Prerequisite: None
This course centers on the question: How do organisms solve the problems of survival, and how are the solutions that have evolved influenced by the environment? Students will examine how observed similarities and differences in organismal structure and function relate to environmental pressures, as well as studying how these observations can be used to construct a logical theory of evolutionary relationships between different organisms. In addition, the complex interactions that have developed between different organisms and between organisms and their environment will be examined. Three lectures and one 2-hour lab per week. This course is designed for science majors and those planning careers in the health sciences. Meets Core credit for natural sciences. Offered each semester.

BIO 205  GENERAL ZOOLOGY  4
Prerequisite: BIO 202
A study of biological principles as they pertain to animals and a systematic study of the anatomy, physiology, ecology, behavior, and taxonomy of the major animal phyla. Three lectures and one two-hour laboratory period per week. Offered Spring of even years.

BIO 207  GENERAL BOTANY  4
Prerequisite: BIO 202
A systematic study of the anatomy, physiology and taxonomy of plants. Three lectures and one two-hour laboratory period per week. Offered Fall of odd years.
BIO 215 FIELD ZOOLOGY 4
*Prerequisite: BIO 202 OR BIO 205*
A study of the principles of field study and the collection, preservation and identification of common vertebrate and invertebrate animals. Three lecture-laboratory periods and one three-hour laboratory/field trip per week. Offered Fall of odd years.

BIO 217 LOCAL FLORA 3
*Prerequisite: BIO 202*
A study of the principles of field study and classification of the common plants of north central Ohio. Two lecture/laboratory periods and one three-hour field trip per week. Not currently in the standard rotation.

BIO 219 ENTOMOLOGY 4
*Prerequisite: BIO 202*
A study of the diversity, taxonomy, morphology, ecology and behavior of insects, our most common and numerous animals. Three lectures and one three-hour laboratory/field trip per week. Offered Fall of even years.

BIO 220 ANATOMY & PHYSIOLOGY FOR NURSING I 4
*Prerequisite: Enrollment in nursing and/or athletic training major*
The first in a two-course series on human anatomy and physiology for nursing students. The course encompasses the anatomical and physiological body functions. It includes basic anatomical and directional terminology; fundamental concepts and principles of cell biology; histology, the integumentary, skeletal, muscular, nervous, special senses, and endocrine systems as they pertain to the clinical setting. Students will use models, tissue slides and the dissection of cadavers during lab periods. Offered every semester.

BIO 223 ANATOMY & PHYSIOLOGY FOR NURSING II 4
*Prerequisite: BIO 220*
The second in a two-course series on human anatomy and physiology for nursing students. The course encompasses the anatomical and physiological and some clinical pathology as it pertains to blood, the cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems of the human body. Students will use models, tissue slides, diagnostic equipment and the dissection of cadavers during lab periods. Offered every semester.

BIO 224 INTRODUCTION TO BIOTECHNOLOGY 3
*Prerequisite: BIO 201*
This course will introduce students to the fundamental issues and themes in biotechnology. The emphasis is placed on the applications of biotechnology to the environmental science, pharmaceutical, and agriculture industries. In addition, the course will focus on specific techniques and methodologies employed by the biotechnology industry. Students will also gain exposure to the regulatory policies and procedures involved in bringing biotech products to the marketplace, and the biochemical issues and controversies associated with advances in biotechnology and medicine. Not currently in the standard rotation.

BIO 234 FORENSIC SCIENCE 3
*Prerequisite: Four hours of biology and four hours of chemistry*
This course explores the application of scientific methods and techniques to problems in the field of forensic science. Topics considered include analysis of hair, fiber, and other materials, fingerprinting, forensic serology and toxicology, and DNA analysis. Offered spring semester of odd years.

BIO 240 MICROBIOLOGY FOR NURSING 4
*Prerequisite: Enrollment as nursing major*
This course focuses on the basics of prokaryotic and eukaryotic microbiology. Topics covered include cellular structure and function, microbial growth and metabolism, microbial genetics, microbial diversity and evolution, and interactions between microbes and humans, with a focus on microbial pathogenesis, disease transmission, the host immune system, and antimicrobial chemotherapy. This is a laboratory-intensive course designed to provide students with hands-on experience manipulating biological samples. Class will combine both lecture and lab sessions. This course does not provide credit toward the biology major or minor. Offered every semester.

BIO 276 ENVIRONMENTAL SCIENCE SEMINAR 1
*Prerequisite: None; Seniors and Juniors*
A seminar course that examines selected environmental science topics in conjunction with the Environmental Lecture series. May be taken twice for credit. Biology majors may take this twice for biology elective credit. EVS/Biology majors may take this a second time for biology elective credit. Offered every spring. BIO/EVS credit.

BIO 297 INTRO TO LAB & FIELD RESEARCH 1
*Prerequisite: Sophomore or Junior Status*
This course is designed to introduce the student to biology research in the laboratory or field through individual instruction under the direction of a Biology/Toxicology faculty member. Graded S/U. To be arranged between each student and a faculty member.

BIO 301 PROFESSIONAL PREPARATION 1
*Prerequisite: Biology/toxicology/Env. Sci major and junior status*
This course begins to prepare biology students for their transition from college to a professional school, graduate school, or job. This course should be taken during the sophomore or junior year. Graded S/U. Offered each semester.

BIO 303 GENETICS 4
*Prerequisite: BIO 201 and six hours of Biology*
An introduction to modern genetics, including Mendelian principles, molecular genetics, cytogenetics, population genetics and quantitative genetic Three lectures and one two-hour laboratory per week. Offered each semester.

BIO 304 JOURNAL CLUB 1
*Prerequisite: Biology major; Jr. or Sr. status*
A discussion-based seminar style course in which students read, discuss and present primary research literature in the biological sciences. Students will enhance their ability to use literature search engines, the critical thinking and analytical skills to understand and critique research writing, and the communication skills necessary to present scientific information to their peers. Topics for the course will vary from year to year. Fulfills the Biology major requirement for a seminar course, and can be taken as an elective up to two times for all Biology and Toxicology majors. Offered every year in the Fall.

BIO 305 EVOLUTION 3
*Prerequisite: BIO 202 or BIO 303 or concurrent*
Evolution is considered to be the central unifying theory of biology. This course will address several questions: What is the classical and modern evidence for evolution, what are the mechanisms for evolutionary change, and how do evolutionary biologists pose questions and study evolutionary processes? Topics will include biogeography, comparative anatomy and physiology, evolutionary development, comparative genomics, pathogen evolution, the origins of multicellularity, and the use of cladistics to make phylogenetic inferences. Offered fall of even years.

BIO 310 ECOLOGY 4
A study of living organisms in their relations to each other and to their environment. Three lectures and one three-hour laboratory/field trip per week. Offered fall semester of odd years.

BIO 325-326 ANATOMY & PHYSIOLOGY I & II 4-4
*Prerequisite: BIO 201; 325 for 326*
This course is designed to impart the in-depth knowledge of anatomy and physiology needed by preprofessional students planning careers in medical or allied health fields as well as those interested in graduate study. Offered each year.
BIO 327  PLANT PHYSIOLOGY  4  
**Prerequisite: BIO 202**
This course examines how plants work at the biochemical, cellular, and organizational levels. Topics include photosynthesis, how plants acquire and transport materials, environmental and hormonal regulation of growth and development, physiological ecology, secondary metabolism, plant defenses, and genome organization. Lab will involve student-designed experiments using the greenhouse and growth chambers, the portable photosynthesis system and other lab equipment, as well as molecular techniques. Three lectures and one two-hour laboratory period each week. Offered Spring Semester of even years.

BIO 328  VERTEBRATE BIOLOGY  4  
**Prerequisite: BIO 202**
This course will introduce students to the broad field of vertebrate biology. We will use vertebrate diversity as a framework for examining the ways that this group of animals has come to dominate all of the world’s habitats. The course will examine anatomy, physiology, ecology, behavior and biogeography in relation to the vertebrate evolutionary story that dates back over 500 million years. Offered Spring Semester of odd years.

BIO 329  DEVELOPMENTAL BIOLOGY  4  
**Prerequisite: BIO 202, BIO 303**
This course examines development of living organisms, with primary emphasis on vertebrate animal development, but including important developmental concepts related to invertebrate animals and to flowering plants. Study includes reproductive anatomy and physiology, morphology, cell fate, potency and determination, genomic equivalence, developmental regulation, cellular differentiation, the roles of Hox genes and apoptosis in development, and pattern formation. Not currently in the standard rotation.

BIO 330  PRINCIPLES OF TOXICOLOGY  3  
**Prerequisite: BIO 201, BIO 202, CHEM 104**
This course will focus on the basic principles of toxicology, the study of poisons. Topics covered include molecular and cellular sites of action of toxicants, carcinogenesis, and teratology, as well as physiological effects of toxicants on the nervous system, cardiovascular system, respiratory system, immune system, and other organ systems. The actions of environmental toxicants on ecological systems will also be explored. Offered each fall.

BIO 331  METHODS IN TOXICOLOGY  4  
**Prerequisite: BIO 330**
In this course, students will learn about the methods and techniques that are commonly utilized in toxicology laboratories. Guided by peer-reviewed scientific literature, students will formulate hypotheses, conduct experiments, analyze data, and compile results for a variety of bioassays. Topics covered include toxicity testing with animals and plants, testing with chemical mixtures, modeling and statistical analysis of toxicological data, collection, extraction, and analysis of biological tissue and environmental media, and proper care and handling of research animals. Offered Spring of even years.

BIO 332  TOXIC AGENTS  3  
**Prerequisite: BIO 330**
In this course, students will explore the different classes of chemical toxins and their effects on living organisms. They will learn about toxic activities, physical properties, regulatory status, and current/historic uses of various poisons, pesticides, and environmental toxins. Emphasis is placed upon the medical, agricultural, environmental, residential, and commercial significance of these substances. Classes of chemicals that will be discussed include toxic metals, non-metal inorganic toxins, organic pesticides (particularly insecticides, herbicides, fungicides, and rodenticides), chemical warfare agents, non-pesticides organic toxins, solvents and vapors, plant and fungal toxins, and animal venoms. Offered spring of odd years.

BIO 334  MICROBIOLOGY  4  
**Prerequisite: BIO 201 and CHEM 104**
This course explores the characteristics of microorganisms including bacteria, viruses, protists, and fungi, with an emphasis on bacteria. Topics discussed include cellular structure and function, molecular genetics of bacteria, microbial metabolism and physiology, microbial diversity and ecology, and mechanisms of pathogenesis and host immunity. Through this course students will gain a deeper understanding of the microbial world and its relevance to human life, and master the tools and techniques necessary for successful laboratory investigations involving microbes. Offered each Spring.

BIO 340  EMERGING PATHOGENS  3  
**Prerequisite: BIO 240 or 340**
A course designed to give the student an understanding of factors that lead to the emergence of new human pathogens. Emerging diseases such as HIV, Mad Cow disease, Dengue Fever, and E.coli H157 are discussed. Offered Fall of even years.

BIO 340  ADVANCED GENETICS  4  
**Prerequisite: BIO 303 CHEM 307**
This course considers viral and bacterial genetics, molecular aspects of gene regulation, recombinant DNA technology and current applications of genetic Three lectures and one two-hour lab per week. Not currently in the standard rotation.

BIO 341  BIOLOGY FIELD STUDY  1-6  
**Prerequisite: 12 hours of biology**
Studies unique habitats and natural areas through intensive on-site exploration to develop an appreciation for the complex interactions that have shaped various natural areas and how these areas are significant to our knowledge of biological diversity. Not currently in the standard rotation.

BIO 341A  THE ECOLOGY OF THE GREAT SMOKY MOUNTAINS  2/4  
**Prerequisite: 12 hours of biology**
A study of the unique features that have made The Great Smoky Mountains one of the most diverse temperate regions on earth. We study the complex ecological interactions that have shaped this unique area and how the Smokies have influenced even the Ashland area. There are two weeks of on-campus classroom preparations, then one week of study in The Smokies and a final class session after returning. Not currently in the standard rotation.

BIO 341B  LIMNOLOGY  4  
**Prerequisite: BIO 202**
This class introduces the fundamental concepts of limnology, the study of lakes, rivers, and wetland ecosystems. Limnology is an integrative science that investigates the physical, chemical, biological, and ecological properties and processes of fresh water environments. Therefore, we will discuss fundamental concepts and questions about how aquatic ecosystems affect organisms from different perspectives. We will also practice basic techniques for measuring and experimentation, and evaluate current research through a variety of approaches. 3-hour lecture and one 3-hour lab per week. Offered Spring of odd years.

BIO 342  MARINE BIOLOGY  4  
**Prerequisite: BIO 202**
This course will examine the marine environment with a focus on marine ecology. Topics covered will include physical and chemical processes in the ocean, marine biodiversity and ecology, and human impact on the oceans. The course includes a hands-on lab component utilizing the department's marine aquarium and collection of marine organisms. The semester concludes with a field trip to the Atlantic coast. Offered spring semester of even years.

BIO 345  ETHOLOGY  4  
**Prerequisite: BIO 205**
A study of animal behavior and its genetic, evolutionary and ecological aspects. Three lectures and one three-hour laboratory-field trip per week. Not currently in the standard rotation.
BIO 420  HISTOLOGY  3  
Prerequisite: 16 hours of biology  
This course is an in-depth study of the organization of the cells, tissues, and major organs of the body. An emphasis is placed upon identification of tissues and organs from mammalian systems. Students learn to identify cell types, tissue types, and organs by examination of prepared and ektachrome slides from our large histological slide collection. 2 hours of lecture in addition to one 2 hour lab per week. Not currently in the standard rotation.

BIO 424  CELL BIOLOGY  4  
Prerequisite: 12 hours of biology, BIO 303 or corequisite  
This course examines multiple aspects of the biology of the cell as the fundamental unit of life. Emphasis is placed upon both the cellular and molecular details of eukaryotic cell structure and function with careful consideration given to the evolutionary relationships that exist between species. Topics covered include biomolecules, the plasma membrane, cellular organelles, membrane trafficking, cell signaling, the cytoskeleton, the cell cycle, and programmed cell death. In this course, students will not only have the opportunity to learn basic cell biology, but also to improve their critical thinking skills, and gain hands-on experience with modern laboratory equipment. 3 hours of lecture and one 3 hour lab per week. Offered every fall.

BIO 425  ADV HUMAN PHYSIOLOGY  4  
Prerequisite: 16 hours of biology  
This course examines the human being from the physiological perspective. Emphasis is placed on understanding the biological, chemical, and physical aspects of the major organ systems of the body: nervous, muscle, cardiovascular, respiratory, renal, digestive, endocrine and reproductive. Each system is studied from the perspective of how that system functions independently within the human body, and how it contributes to the overall functioning of the human being. 3 hours of lecture, and 2 hours of lab per week. Offered each spring.

BIO 428  MOLECULAR BIOLOGY  4  
Prerequisite: BIO 303  
This course examines several topics in molecular biology including gene structure, transcription regulation, RNA processing, molecular evolutionary biology, translation, bioinformatics, and the techniques used by molecular biologists to study these topics. This course emphasizes the development of a molecular biological vocabulary, the development of critical thinking skills, and an intense lab experience. 2 hours of lecture and one 4-hour lab per week. Offered spring semester of odd years.

BIO 429  BIOCHEMISTRY  3-4  
Prerequisite: See CHEM 429 for course descriptions.

BIO 432  PHARMACOLOGY TOXICOLOGY I  3  
Prerequisite: 16 hours of biology; CHEM 307  
A study of the principles of pharmacology, including drug administration, pharmacokinetics, and therapeutic and/or toxic effects of commonly used drugs. Focus is on the action of drugs on the autonomic and central nervous systems. Offered each fall.

BIO 433  PHARMACOLOGY TOXICOLOGY II  3  
Prerequisite: BIO 432  
Further study of effects of drugs and toxicants. Includes the study of drugs which affect cardiovascular, urinary, gastrointestinal, respiratory, immune, and endocrine systems. Also covered are antibiotics, chemotherapy, and a survey of major classes of toxicants (solvents, pesticides, and heavy metals). Offered each spring.

BIO 439  ADVANCED TOPICS IN BIOCHEMISTRY  3  
Prerequisite: See CHEM 439 for course descriptions.

BIO 449  VIROLOGY  3  
Prerequisite: BIO 340 or BIO 424 or BIO 428  
This course examines the characteristics of viruses, including those that infect bacteria, plants, insects, and man. Topics discussed include replication strategies of various viruses, bacteriophages as agents of evolution, pathology of mammalian viruses, prevention and treatment of viral disease, associations between viral infection and cancer, and the transmission of viruses from host to host. Not currently in the standard rotation.

BIO 454  IMMUNOLOGY  4  
Prerequisite: BIO 340 or BIO 424 or BIO 428  
The study of the host's response to infectious diseases. Topics discussed include generation of antibody diversity, interactions between antigens and antibodies, T-cell and B-cell activation and function, the complement system, autoimmune disorders, acquired immune disorders, immunological memory, and vaccination strategies. Laboratory activities include antibody preparation, gel diffusion assays, Western Blotting, and ELISA. Not currently in the standard rotation.

BIO 476  ISSUES IN ENVIRONMENTAL SCIENCE  3  
Prerequisite: 30 hours of science courses (MATH, BIO, CHEM, GEOL, PHYS)  
A detailed examination of the scientific dimensions of selected environmental issues, with discussion of the economic policy, and ethical aspects of those problems and with emphasis on global and international perspectives. Case studies will include many examples from other countries, as well as national and regional issues in the U.S. Required for all EVS majors. Biology & Geology majors (but not EVS/Biology or EVS/Geology majors) may use this course as a biology or geology elective. Offered every spring. BIO/EVS/GEOL credit.

BIO 480  ADVANCED TOPICS IN BIOLOGY/TOXICOLOGY  1-4  
Prerequisite: Junior standing  
This course is designed to offer in-depth study of a selected advanced topic at a level appropriate to junior and senior majors in biology/toxicology and related areas. May be repeated for credit as topics change. Offered occasionally.

BIO 493  PROFESSIONAL INTERNSHIP  1-16  
Prerequisite: 12 hours of resident credit, junior or senior standing and permission of department chair  
A course designed to allow advanced biology students to gain practical experience in an area of potential career interest. Students will work under the guidance of an on-site supervisor, following a learning plan to be developed jointly by the supervisor, the student, and a faculty advisor. Graded S/U.

BIO 495  BIOLOGY SENIOR SEMINAR  1  
Prerequisite: Senior status in biology, toxicology, env. sci/bio  
This course asks the question, What should a well-educated biologist know? and serves as a review of the important topics that all biology majors should be familiar with upon graduation. Spring semester of the senior year.

BIO 497  DIRECTED LABORATORY & FIELD RESEARCH  1-3  
Prerequisite: Permission of instructor  
A directed research project supervised by individual faculty which is designed to provide the student with experience in the methods of biological research, including experimental design, use of instrumentation, analysis of results, and presentation of the study in the format of a scientific paper. May be repeated for up to 12 credit hours.
Medical Technology Program courses:
(Pending approval by the Higher Learning Commission)
The following courses are part of the Comprehensive major in Biology with a concentration in Medical Technology and are only taught at the Cleveland Clinic’s School of Medical Laboratory Science. Students taking them must be seniors who have been accepted into the Medical Technology Program.

**BIO 457** INTRODUCTION TO MEDICAL LABORATORY SCIENCE 1
**Prerequisite:** Medical Technology Senior
An overview of Medical Laboratory Sciences with a focus on the role of Medical Technologists, their function in the diagnostic workflow in hospital and other settings.

**BIO 458** CLINICAL PHLEBOTOMY 1
**Prerequisite:** Medical Technology Senior
An introduction to the practice of phlebotomy including sample collection and sample delivery to testing the workflow.

**BIO 459** CLINICAL RESEARCH 1
**Prerequisite:** Medical Technology Senior
An introduction to the ethical, legal and scientific aspects of performing research in a clinical medical laboratory setting. Both case studies and design exercises will be used.

**BIO 460** CLINICAL LABORATORY EDUCATION 1
**Prerequisite:** Medical Technology Senior
An introduction to adult education and ethics in clinical research utilizing a project based approach.

**BIO 461** CLINICAL LABORATORY MANAGEMENT 1
**Prerequisite:** Medical Technology Senior
This course presents the management and operations procedures and practices of the clinical laboratory with an emphasis on the role of data management, reporting procedures and other aspects of quality control and quality assurance in laboratory testing.

**BIO 462** CLINICAL IMMUNOLOGY AND IMMUNOPATHOLOGY 4
**Prerequisite:** Medical Technology Senior
An introduction to the cellular and molecular components of the immune system and laboratory testing for their presence, function and integrity as well as serological testing for diagnostics.

**BIO 463** CLINICAL MICROBIOLOGY, PARASITOLOGY, AND MYCOLOGY 10
**Prerequisite:** Medical Technology Senior
This course provides the student with a greater background in clinical microbiology with an emphasis on the processing of sample and testing procedures used in identification of microbial pathogens including bacteria, fungus and protozoan parasites.

**BIO 464** CLINICAL IMMUNOHEMATOLOGY 7
**Prerequisite:** Medical Technology Senior
This course teaches the theoretical and practice aspects of blood collection, storage, management and testing to ensure a safe blood supply.

**BIO 465** CLINICAL CHEMISTRY 8
**Prerequisite:** Medical Technology Senior
Students will learn to apply their previous chemical knowledge to specific aspects of clinical medicine including testing methods and physiological effects of various classes of chemicals.

**BIO 466** CLINICAL MOLECULAR BIOLOGY 2
**Prerequisite:** Medical Technology Senior
This course covers both the theory and practice of genetic testing methods used in the clinical laboratory including both routine tests such as for variations in drug metabolism.

**BIO 467** CLINICAL HEMATOLOGY 9
**Prerequisite:** Medical Technology Senior
An introduction to the theory and applications of blood testing, urinalysis and testing of other body fluids in the clinical laboratory.

**BUS 210** STUDY TOUR 1-3
**Prerequisite:** None
A course designed to use organized experiences with top business and/or government decision makers as learning opportunities for economics and business majors and other interested students. These visits offer inside views of decision making in business, finance, and/or government that will help illuminate campus studies and suggest career possibilities. An acceptable term project report and post trip seminar will be required for credit.

**BUS 239** BUSINESS WORK EXPERIENCE 0
**Prerequisite:** Sophomore status and approval by the Academic Internship Advisor
This course helps the BSBA student meet the internship/work experience requirement for the BSBA degree. A minimum of 225 hours is needed to fulfill this requirement. Before beginning the work experience, the student will need to complete all appropriate paperwork including the Learning Contract, fulfill the requirements listed in the Learning Contract, and obtain the approval of the Academic Internship Advisor.

**BUS 250-259** TOPICS IN BUSINESS 1-3
**Prerequisite:** As required, depending on topic
Courses devoted to various topics of current interest in business. Courses will be designed to meet the educational needs of students in a corporate setting. Courses do not count toward a particular major or minor in the college. Repeatable for new topics.

**BUS 339** BUSINESS INTERNSHIP/COOPERATIVE EDUCATION 3-6
**Prerequisite:** Sophomore status and approval by the Academic Internship Advisor
This course helps the BSBA student meet the internship/work experience requirement for the BSBA degree. A minimum of 225 hours is needed to fulfill this requirement. Before beginning the internship, the student will need to complete all appropriate paperwork including the Learning Contract, fulfill the requirements listed in the Learning Contract, and obtain the approval of the Academic Internship Advisor. The student may repeat 339 once for a total of no more than 6 credit hours.

**BUS 341** APPLIED REGRESSION ANALYSIS 3
**Prerequisite:** See MATH 341 for course Description

**BUS 439** BUSINESS INTERNSHIP/COOPERATIVE EDUCATION 3-6
**Prerequisite:** None
This course is designed for students completing their second or third business internship after they have satisfied the internship/work experience requirement for the BSBA degree. The student is required to work a minimum of 225 hours and fulfill other requirements as stated in the Learning Contract. Prior approval of the academic internship advisor and completion of the appropriate paper work, including the learning contract, are required. The student may repeat 439 once for a total of no more than 6 credit hours. Graded S/U.
CHEM 103  GENERAL CHEMISTRY  4
Prerequisite: High school chemistry, 3 yrs. High School math
This course introduces the properties of atoms and molecules using the logical processes of scientific reasoning and investigation. Models of the atom are developed using periodicity and quantum mechanics, and these models are extended to molecules, with an emphasis on the effects of forces within a molecule and between molecules. Applications will be made to the biological and geological sciences, medicine, and the environment. The laboratory emphasizes the development of technical skills using safe laboratory practices. Inquiry approaches to problem-solving are introduced, and conclusions are drawn based on data at hand. Chemical and scientific thinking skills are assessed using formal laboratory reports. Offered every fall. Meets Core credit for natural sciences.

CHEM 104  GENERAL CHEMISTRY  4
Prerequisite: CHEM 103
This course examines chemical reactions using the logical processes of scientific reasoning and investigation. Chemical reactions are studied from the perspectives of thermodynamics, equilibrium and kinetics. Applications will be made to the biological and geological sciences, medicine, and the environment. The laboratory emphasizes the development of technical skills using safe laboratory practices. Inquiry approaches to problem-solving are introduced, and conclusions are drawn based on data at hand. Chemical and scientific thinking skills are assessed using formal laboratory reports. Offered every spring. Meets Core credit for natural sciences.

CHEM 250  LEAD AND CIVILIZATION  3
Prerequisite: None
An intensive examination of the role lead has played in the history of civilization, with emphasis on how the uses and toxicity of this metal are related to its chemical properties. Meets Core credit for natural sciences.

CHEM 251  MOLECULAR ARCHITECTURE  3
Prerequisite: None
The vibrant world of chemistry is explored by seeking answers to three specific questions: 1) What is a molecule? 2) How are molecules constructed? 3) How are molecules characterized? Answers to these questions are sought by an in-depth investigation of organic molecules that are either encountered in daily life or are, in part, critical for sustaining life. Consequently, students are introduced to the logical processes of scientific reasoning and investigation and invited to contemplate the impact of chemistry upon society. Meets Core credit for natural sciences.

CHEM 252  CHEMISTRY OF CRIME SCENE INVESTIGATION  3
Prerequisite: High school chemistry
This course relates real world applications of analytical chemistry to the investigation of crimes. The underlying chemistry and biochemistry involved in forensic analysis are addressed. Also, the exploration of scientific inquiry as it relates to developing hypotheses and providing proof of a crime based on chemical evidence is investigated. This course does not count toward any major in the natural sciences. Meets Core credit for natural sciences.

CHEM 253  CHEMICAL PERSPECTIVES ON LIFE  4
Prerequisite: None
This course explores the question: What do living organisms look like from a chemical perspective? Answering this question requires an understanding of fundamental chemical concepts of inorganic, organic and biochemistry. The laboratory will enhance understanding of chemical concepts and the scientific method, and develop the student's critical thinking skills. The course assumes no chemistry background. It does not meet major or elective requirements of majors in Chemistry/Geology/Physics or Biology/Toxicology Departments. Three lectures and one-1hr.50min. lab per week. Meets core credit for natural sciences. It does not meet major or elective requirements in CHEM/GEOL/PHYS and BIO/TOX departments.

CHEM 297  INTRODUCTION TO LABORATORY & FIELD RESEARCH  1
Prerequisite: Soph or junior standing
This course will introduce the student to scientific research in the laboratory or field through individual instruction on the direction of a Chemistry faculty member. Graded S/U. Offered each semester.

CHEM 307-308  ORGANIC CHEMISTRY I & II  3-3
Prerequisite: CHEM 104; 307 FOR 308
A survey of the general principles of organic chemistry including nomenclature, structure, reactions, multi-step synthesis, the effect of structural variation on reactivity and structural determination by spectroscopic methods. Emphasis is placed on mechanism and application. Must be taken concurrently with lab 307 offered every fall. 308 offered every Spring.

CHEM 307L  ORGANIC CHEMISTRY LABORATORY  1
Prerequisite: CHEM 104
Provides practical experience in modern techniques utilized in the organic chemistry laboratory. The course emphasized the study of the properties, reactivity, and synthesis of organic compounds. The spectrochemical analysis of organic compounds is also stressed.

CHEM 308L  ORGANIC CHEMISTRY LABORATORY  1
Prerequisite: CHEM 307
Provides practical experience in modern techniques utilized in the organic chemistry laboratory. The course emphasized the study of the properties, reactivity, and synthesis of organic compounds. The spectrochemical analysis of organic compounds is also stressed.

CHEM 320  QUANTITATIVE ANALYSIS  4
Prerequisite: CHEM 104
A study of the fundamental principles of gravimetric, volumetric, colorimetric, potentiometric and chromatographic methods of analysis as applied to the quantitative determination of constituents in practical samples. Two lectures and two three-hour laboratory periods per week. Offered every fall.

CHEM 350  SCIENCE AS A CULTURAL FORCE  3
A-The Making of the Bomb
B-The Tobacco Wars
C-Science and Human Nature
D-Evolution: For & Against
E-Science and Rationality
Prerequisite: Any natural science core course
An inquiry into the nature of the scientific method in relation to human culture and its use in gaining and applying new knowledge. This course constitutes a substantial interdisciplinary investigation of the impact of science and technology upon society by way of a sustained look at one particular scientific issue or question for the semester. The ethical dimensions of advances in science and technology are explored in detail. Meets Core credit for humanities or natural sciences, but not both. May be taken only once for Core credit. CHEM/GEOL/PHYS/PHIL credit.

CHEM 411-412  PHYSICAL CHEMISTRY I & II  3-4
Prerequisite: PHYS 206
Studies the basic concepts of thermodynamics, kinetics and quantum mechanics. Three lectures and one three-hour laboratory per week. Chemistry minors may omit the labs and receive 3 hours credit for each. 411 is offered in the fall, odd years. 412 is offered in the fall, odd years.

CHEM 413  ADVANCED SYNTHESIS LABORATORY  3
Prerequisite: CHEM 411
Multistep syntheses with careful purification and characterization of each intermediate are used to integrate new ideas and techniques with those introduced in previous courses.
CHEM 416  ADVANCED INORGANIC CHEMISTRY  4
Prerequisite: CHEM 411
Studies trends in reactivity, structure and properties of the elements. Three lectures and one three-hour laboratory per week. Offered in the spring of even years.

CHEM 420  INSTRUMENTAL ANALYSIS  4
Prerequisite: CHEM 320
A thorough study of the physical principles and the analytical techniques used in instrumental methods of analysis. Two lectures and two three-hour laboratory periods each week. Offered in the spring of odd years.

CHEM 429  BIOCHEMISTRY  3-4
Prerequisite: CHEM 307
Introduction to biochemical principles, systems and methods including the chemistry and metabolism of biologically important compounds. Three lectures and one three-hour laboratory period per week. Course may be taken without lab for three hours credit. Offered each fall. BIO/CHM credit.

CHEM 439  ADVANCED TOPICS IN BIOCHEMISTRY  3
Prerequisite: CHEM 429
A study of the complexity of the chemical reaction of biological macromolecules involving investigating the interactions of both organic and inorganic molecules (bio-inorganic chemistry) and the techniques used to study biomolecular structure and function (bio-physical chemistry). This seminar emphasizes critical review and discussion of current scientific literature as well as the development of oral and written presentation skills. Offered in Spring, odd years. BIO/CHM credit.

CHEM 493  INTERNSHIP  1-4
Prerequisite: Soph. status and approval by department chair
An internship in a laboratory and/or field setting applicable to the discipline will be completed under the supervision by a qualified professional(s). Documentation of 50 clock hours per credit hour, typically over six consecutive weeks (minimum) is required. CHEM/GEOL/PHYS credit.

CHEM 497  LABORATORY & FIELD RESEARCH  1-3
Prerequisite: Soph. status, perm. of inst. and chair
Laboratory research performed under faculty supervision. This course allows undergraduate students the opportunity to become involved in original research projects directed by Chemistry/Geology/Physics faculty members. Repeatable up to 8 hours.

COACHING & INSTRUCTION IN SPORT

CIS 170  FOUNDATIONS OF COACHING  2
Prerequisite: None
An introduction to the art and science of coaching, including development of a personal philosophy and the application of scientific training principles in the physiological, psychological and managerial bases of sport coaching. The course offers students the opportunity to obtain American Sport Education Program (ASEP) coaching certification.

CIS 321  THEORY/TECHNIQUES OF FOOTBALL  2
Prerequisite: None
Philosophy, theory, methods, techniques and organization of football.

CIS 322  THEORY/TECHNIQUES OF BASEBALL  2
Prerequisite: None
Philosophy, theory, methods, techniques and organization of baseball.

CIS 323  THEORY/TECHNIQUES OF TRACK & FIELD  2
Prerequisite: None
Methods, techniques and organization of track & field.

CIS 324  THEORY/TECHNIQUES OF SOFTBALL/BASEBALL  2
Prerequisite: None
Strategy, methods, techniques and organization of baseball and softball.

CIS 325  THEORY/TECHNIQUES OF COMPETITIVE SWIMPOOL MGT  2
Prerequisite: None
An analysis of instructional and training techniques used in swimming. Procedures in proper pool management will be investigated.

CIS 326  THEORY/TECHNIQUES OF SOCCER  2
Prerequisite: None
Theory, methods, techniques and organization of soccer.

CIS 327  THEORY/TECHNIQUES OF WRESTLING  2
Prerequisite: None
Preparation for organization and administration of coaching wrestling. Course work includes practical application of learning and teaching wrestling maneuvers, interpretation of wrestling rules, match and tournament organization.

CIS 328  THEORY/TECHNIQUES OF VOLLEYBALL  2
Prerequisite: None
Theory, methods, techniques and organization of volleyball.
CJ 242  CRIMINOLOGY  3
Prerequisite: None
An introduction to the history of crime, the sociology of criminal law, the operation of the criminal justice system, including roles of police, prosecutors, defense attorneys and judges. Also considered are offender types; conventional, white collar and organized crime; theories of causation, victimology, prison, probation, and parole, and trends and issues in criminology. CJ/SOC credit.

CJ 244  JUVENILE DELINQUENCY  3
Prerequisite: None
A course planned to aid the student in the examination of juvenile delinquency as a social problem from the perspectives of control prevention and rehabilitation. Delinquency will be viewed as to definition, genesis and extent. The social institutions of families and schools will be discussed in detail. The juvenile courts, probation, parole, correction institutions and child placement programs are to be examined with respect to their effectiveness, philosophy and goals. CJ/SOC credit.

CJ 270  ROLE OF POLICE IN MODERN SOCIETY  3
Prerequisite: CJ 130
Study of the role behavior and life of the line officer within the police subculture and within society. Topics examined are the influence of coercive power, role behavior, subcultural influences, and personal issues relating to loyalty, stress, health, critical incidents, family, and faith.

CJ 275  GANGS AND CULTS  3
Prerequisite: See SOC 275 for course description.

CJ 307  VICTIMOLOGY  3
Prerequisite: None
Victimology is the study of the role of the victim in criminology and the criminal justice system. Areas to be investigated include the relationship between victims and their criminal offenders, societies' responses to the victims, the victim's role in the criminal justice process and programs directed at assisting victims of crime. CJ/SOC credit.

CJ 331  TOPICS IN CRIMINAL JUSTICE  3
Prerequisite: None
A seminar open to criminal justice majors/minors which will provide an opportunity to explore, in-depth, topics pertinent to or impacting on the field of criminal justice. This may include critical observations or historical, contemporary or future issues. Repeatable to a maximum of 9 hours.

CJ 332  TERRORISM & HOMELAND SECURITY  3
Prerequisite: None
This course will look at what terrorism is and what a terrorist group is. This course will also examine theories explaining terrorist behavior and how economics, race, religion and other factors influence terrorism and motivate terrorist groups. The course will also look at the responses to terrorism, and particularly how it is being fought through the concept of Homeland Security.

CJ 360  READINGS IN CRIME AND JUSTICE  3
Prerequisite: None
This course surveys major literary works that deal with crime and punishment and examines these works, including roles of motivation, social milieu, culture and legal systems that affect our understanding of justice and the laws that attempt to achieve that justice.

CJ 362  CRIMINAL LAW  3
Prerequisite: CJ 130
Analysis and evaluation of the growth of legal relationships between the individual and government with special attention to problems of law enforcement-law adjudication and the impact of their decisions on the citizen and the criminal justice system.

CJ 366  CRIMINAL PROCEDURE  3
Prerequisite: CJ 130, CJ 362
Examination of the area of law balances governmental power and individual rights. Issues that address balancing controlling crime with due process rights include search and seizure, detention and arrest, interrogation, trial rights and sentences.

CJ 403  FIELD EXPERIENCE/INSTRUCTION-CJ  1-12
Prerequisite: Permission of instructor
Provides an opportunity for CJ majors to observe and experience the criminal justice system in action. The student selects from a variety of agencies or organizations willing to offer this opportunity and, with the help and guidance of the field coordinator, participates in an experience designed to bring academic preparation together with the reality of being professional criminal justice practitioners. Experience may be taken for up to a total of 12 hours.

CJ 415  ADVANCED CRIMINOLOGY AND PROFILING  3
Prerequisite: CJ/SOC 242
Advanced Criminology and Profiling is a case study approach to applying theory to the practice of criminology. The case histories of some infamous and not-so-infamous criminals will be examined for the purpose of applying criminological theory. Students will determine the probable cause(s) of those individuals' criminality. CJ/SOC credit.

CJ 450  ETHICS IN CRIMINAL JUSTICE  3
Prerequisite: CJ 130, CJ 362, and Jr. or Sr. Status
This course will analyze ethical behavior and provide criminal justice practitioners with decision-making skills to enhance the practitioner duty performance and the public interest. The focus will be on making moral, rational, and responsible decisions which will lead to ethical professional behavior. Must be taken at AU.

COMMUNICATION STUDIES (COM)

COM 100  DEVELOPMENTAL SPEECH  3
Prerequisite: None
An elementary course designed for freshmen students whose oral communication skills are in need of reinforcement. Class enrollment will be determined by the recommendation of faculty members or student request. The credit hours may not be applied to communication requirements for graduation. Course will be graded A, B, C or U. If a U is earned, course must be repeated. Offered infrequently.

COM 101  HUMAN COMMUNICATION  3
Prerequisite: None
This course encompasses communication theory, interpersonal communication, small group communication and public speaking. Emphasis is placed on speaking, critical thinking, listening skills. Attention is also paid to nonverbal communication. Meets Core credit for communications.

COM 105  PERFORMANCE STUDIES  3
Prerequisite: None
This course investigates what constitutes performance in everyday life and how performance can be viewed as an aesthetic experience. The course will focus on the discipline of performance studies, its ties to the oral tradition, its ties to the oral interpretation movement, and current understanding of what constitutes a performance text. This course will include an emphasis on performance in everyday life as well as aesthetic performance of both literary and non-literary texts. Techniques involving textual analysis, use of voice and body for solo performance, and audience adaptation will be used. Meets Core credit for aesthetics. COM/TH credit.

COM 120  FOUNDATIONS OF HEALTH COMMUNICATION  3
Prerequisite: None
This course encompasses communication theory, interpersonal communication, small group and team communication and public speaking specific to the healthcare setting. Emphasis is placed on speaking, critical thinking, listening, and feedback skills. Attention is also paid to nonverbal communication. Meets Core credit for communications.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COM 163</td>
<td>FOUNDATIONS OF SPORT COMMUNICATION</td>
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<td><em>Prerequisite: None</em></td>
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<td></td>
<td>Introduction to the sport communication field with emphasis on organization and administration areas. The course will deal with the working relations with media and personnel in professional sport and other intercollegiate athletic conferences.</td>
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<tr>
<td>COM 204</td>
<td>COMMUNICATION THEORY AND RESEARCH</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>This course surveys, analyzes and applies the major theories and research methodologies in the field of communication studies to verbal and nonverbal forms of symbolic interaction across a variety of contexts.</td>
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<tr>
<td>COM 205</td>
<td>INTRODUCTION TO PUBLIC RELATIONS</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>This course includes an introduction to an application of public relations theories, philosophies, and principles applicable to a variety of organizations. We will explore historical perspectives, current and future trends, as well as professional associations, and career opportunities in public relations.</td>
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<tr>
<td>COM 206</td>
<td>SMALL GROUP COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>Students relate the theories of small group process and problem solving to actual practice, eventuating in the completion of a real problem solving task: Parliamentary procedures, for use in larger and legally formed groups, are practiced at the end of the course.</td>
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<tr>
<td>COM 208</td>
<td>ARGUMENTATION AND ADVOCACY</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>A study of the theory and practice of developing argumentative discourse to gain audience adherence. Practice in analyzing actual situations that call for debate is emphasized, with attention to several debate formats.</td>
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<tr>
<td>COM 211</td>
<td>PUBLIC RELATIONS WRITING</td>
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<td><em>Prerequisite: COM 205</em></td>
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<td>This course provides instruction and writing practice designed to develop the professional-level writing skills expected of a PR writer. The aim is to provide students with the necessary confidence in PR writing skills to make them the preferred candidate for a PR job.</td>
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<tr>
<td>COM 221</td>
<td>TOPICS IN PUBLIC RELATIONS</td>
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<td><em>Prerequisite: COM 205</em></td>
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<td>This course will examine various topics relating to the field of public relations. Typical topics would include brand communication, health public relations, crisis communication, international public relations, public relations and new media, and public relations and non-profit agencies. May be repeated for credit as topics change.</td>
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<tr>
<td>COM 222</td>
<td>TOPICS IN COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>This course will examine various topics relating to communication needs. Typical topics would include interviewing, persuasion, public address, assertiveness training, public relations, professional communication, rhetorical criticism, history of public address and rhetorical theory. May be repeated for credit as topics change.</td>
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<tr>
<td>COM 223</td>
<td>TOPICS IN SPORT COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>This course will examine various topics relating to sport communication issues. Typical topics would include Sport and Film, History of Sport and the Media, Sport and Media Relations, and perhaps classes cross-listed with other disciplines, such as Sport Literature. May be repeated for credit as topics change.</td>
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<td>COM 224</td>
<td>TOPICS IN HEALTH &amp; RISK COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>This course will examine various topics relating to health and/or risk communication issues. Typical topics would include developing risk and crisis response to specific threats to various publics, development and implementation of health communication interventions and campaigns targeted at specific threats, and development of risk message campaigns concerning particular environmental and health risks. May be repeated once for credit as topics change.</td>
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<tr>
<td>COM 242</td>
<td>SPORT REPORTING</td>
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<td><em>Prerequisite: None</em></td>
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<td></td>
<td>A survey of the patterns and practices of sports reporting. Emphasis on reporting sports events and sports features. Class assignments will involve gathering and preparing sport-related information as well as writing and analyzing representative forms of sports reporting.</td>
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<tr>
<td>COM 244</td>
<td>SPORT COMMUNICATION AND CULTURE</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>This course critically explores the social interactions of sport and considers the degree to which its participants reinforce or resist cultural norms.</td>
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<tr>
<td>COM 270</td>
<td>RESEARCH METHODS IN COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120; MATH 208</em></td>
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<td>This course involves the study of research methods and research design commonly employed in the field of Communication Studies. Research methodologies to be explored include survey research, experimental design, available data research, and field research. Emphasis will be put on the assessment of reliability and validity in a research design. The course will also discuss the ethical issues associated with conducting research on human beings as well as the presentation of research methodology in manuscript format.</td>
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<tr>
<td>COM 301</td>
<td>PUBLIC SPEAKING</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>Continues the communication concerns of COM 101 while offering practice in developing speeches for a variety of career and personal interest occasions with adaption to particular audiences and time limitations. Theories of rhetoric and persuasion are a part of the content.</td>
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<td>COM 302</td>
<td>INTERCULTURAL COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>Introduces students to methods of learning about other cultures and ways to communicate effectively with and about people of other countries and sub-cultures.</td>
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<tr>
<td>COM 304</td>
<td>INTERPERSONAL COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>A course emphasizing the theoretical approaches and contemporary research on patterns of interpersonal communication in human relationships. Emphasis will be placed on developing skills for analyzing interactional processes through close description and interpretation.</td>
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<tr>
<td>COM 305</td>
<td>ORGANIZATIONAL COMMUNICATION</td>
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<td><em>Prerequisite: COM 101 or COM 120</em></td>
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<td>This course is a study of communication systems and behaviors within organizations and will serve as an introduction to the study of communication channels and networks in organizations. Topics include the relevance of communication to management operations, employee morale, networks, superior-subordinate relationships, production, leadership, organizational climates and cultures, and ethics in organizations.</td>
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</table>
This course provides a background of the issues of gender and race in the world of sports. Topics that will be discussed include women's participation in sports before and after Title IX, masculinity in sports and sports media, femininity portrayal in athletics, the racial integration of sports throughout history, and the current state of sport in consideration of both gender and race.

COM 320 HEALTH COMMUNICATION
Prerequisite: COM 101 or COM 120
This course exposes the student to the emerging field of health communication. This reflects the analysis and understanding of communication during the healing process with healthcare organizations and among all involved personnel and patients. Focused within the healthcare context, emphasis is placed on rhetorical medicine, narrative medicine, intercultural and gender communication, affirming communication, and aggressive communication. Attention is also given to communication during end-of-life care, stigmatization, and informed consent processes.

COM 323 SPORT PUBLIC RELATIONS
Prerequisite: COM 163
This class will examine the tasks of the sport public relations specialists, including such areas as promotions, media relations, community relations, and crisis communications.

COM 333 LEADERSHIP COMMUNICATION
Prerequisite: COM 101 or COM 120
This course will explain the critical connection of communication to effective leadership. Students will learn about leadership communication as it relates to ethos, ethics, strategies and different organizational structures.

COM 343 CONFLICT, MEDIATION, AND NEGOTIATION
Prerequisite: COM 101 or COM 120
This course emphasizes theoretical approaches and contemporary communication research on patterns of conflict in human relationships. The emphasis will be on understanding the causes (e.g., cultural, philosophical) and types of conflict; developing skills for analyzing conflict situations through close observation, detailed description, and interpretation; and understanding the types and strategies of conflict management that include mediation and negotiation.

COM 370 INFORMATICS IN HEALTH COMMUNICATION
Prerequisite: COM 101 or COM 120
This course will focus on the influence that health-related information has on communication. Topics include information seeking, information gathering, and information processing, the impact that electronic medical records, personal health records, SMART technology, e-medicine, telehealth, e-training, and robotics have on patient-provider and healthcare team communication.

COM 375 INFORMATICS IN SPORT COMMUNICATION
Prerequisite: COM 101 or COM 120
This course is a study of how information is generated, exchanged, and utilized within sports, as a pastime and an industry, and the impact it has on communication. Topics include information seeking, information gathering, information processing, the impact that media and innovations such as fantasy sports and social networking have on how sport is communicated in the modern era.

COM 410 RELATIONAL COMMUNICATION IN SPORT
Prerequisite: COM 101 or COM 120; COM 163
This course will investigate the multiple relationships that exist in sports. Interpersonal communication theory will be used to analyze relationships including family relationship in sports, coach-athlete relationships, as well as team and organizational relational dynamics. The course will also investigate how and why these relationships grow or fail based on the communication between the parties.

COM 415 COMMUNICATION IN SPORT ORGANIZATIONS
Prerequisite: COM 101 or COM 120; COM 163
This course provides insight into the organizational structure of sports organizations as well as how communication works both internally and externally given the organizational structure. Organizational communication will be covered from a theoretical perspective and will focus on the theory and style of communication that is most appropriate considering the organizational structure. The course will also examine how sports organizations are run in other countries to allow a comparison to those that are currently in place in the United States.

COM 420 HEALTH PUBLIC RELATIONS
Prerequisite: COM 101 or COM 120; junior status
This course is a study of the communication processes that are involved in communicating about health and issues that arise during healthcare processes including patient care, health care campaigns, as well as crisis and risk communication specific to healthcare. Topics include theory in health communication, interpersonal communication in health including patient-doctor care and social support, ethical concerns in healthcare and healthcare campaigns, crisis communication, developing healthcare communication plans, implementing communication strategies, and assessment of the communication campaign.

COM 425 RISK AND CRISIS COMMUNICATION
Prerequisite: COM 101 or COM 120; junior status
This course is a study of the communication processes that are involved in the communication of information to people and various publics regarding risks, how these risks will impact the publics, and how to best prepare the publics to reduce the risk. Topics include communication risk analysis, crisis communication, developing risk and crisis communication plans, implementing communication strategies, and assessment of the communication campaign.

COM 430 STRATEGIC COMMUNICATION
Prerequisite: COM 211, COM 305
This course provides instruction and practice in strategic communication theory and research at the organizational and public levels. Students will gain the necessary skills to identify and execute proper planning in both promotion and crisis planning for organizations to those who are directly and indirectly impacted.

COM 436 INTERNSHIP IN COMMUNICATION STUDIES
Prerequisite: Permission of instructor
This course is designed for students seeking an internship experience. Students should apply the knowledge attained through their studies in a workplace similar to what they might seek after graduation. Internships can be started any time after the student's sophomore year and must be approved by the faculty internship advisor for that major. Each credit hour of internship requires 60 hours of work at the internship site. Graded S/U. Repeatable up to 6 hours.

COM 470 RESEARCH EXPERIENCE IN COMMUNICATION STUDIES
Prerequisite: Permission of instructor
This course is designed for students seeking a research experience within the Department of Communication Studies. Students who are interested in research within their major may choose to work with interested faculty on research projects relating to communication studies. The Research Experience can be started any time after the student's sophomore year and must be approved by the faculty member(s) with whom the student will be working. Credit for the research experience may be taken simultaneously with the research experience or the semester immediately after completing the research experience. Students will be responsible for engaging in research as directed by the faculty member in charge. Each credit hour of research experience requires 60 hours of work with the faculty member. Graded S/U. Repeatable up to 4 hours.
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**COMPUTER SCIENCE (CS)**

**CS 101: LOGIC AND COMPUTING**

Prerequisite: 2 years high school algebra

Beginning with the building blocks of circuits and advancing through a collection of language abstractions, students use logic at several levels to gain a deep insight into how modern digital computers actually work. This course assumes no computer hardware or programming experience.

**CS 121: COMPUTER PROGRAMMING I**

Prerequisite: CS 101

An introduction to the design and development of object-oriented programs using the Java programming language.

**CS 122: COMPUTER PROGRAMMING II**

Prerequisite: CS 121

A continuation of CS 121. A further exploration of the principles, methods, tools and practices of object-oriented programming, including inheritance, recursion, object-oriented design, and GUI applications.

**CS 175: WEB DESIGN**

Prerequisite: None

An introduction to the World Wide Web, the creation of Web sites, Web page markup and styling languages, and client-side programming.

**CS 230: DATA STRUCTURES**

Prerequisite: CS 122; MATH 223

Formal specification of abstract data types using an object-oriented language with examples of their uses in computer science: records, stacks, queues, linked lists, hash tables, heaps, and trees.

**CS 250: THE LINUX OPERATING SYSTEM**

Prerequisite: None

A study of Linux concepts, usage, programming and ethical hacking.

**CS 260: TOPICS IN COMPUTER SCIENCE**

Prerequisite: None

This course is offered subject to student need, faculty availability, and with the approval of the department chair and college dean. Topics may include Java Advanced Programming, and Introduction to UNIX. Repeatable for different topics.

**CS 275: WEB PROGRAMMING**

Prerequisite: CS 175

A continuation of CS 175, with emphasis on Web services and server-side programming using PHP.

**CS 293: INTERNSHIP**

Prerequisite: CS 121, Learning Contract

Credit will be granted for field experience in computer science relevant to the student's educational development and career goals. This work may be done on campus by providing technical assistance to faculty. Examples include UNIX administration and maintaining the hardware lab. Alternatively, this work may be done off campus. Prior approval of a CS faculty member is required. Does not count toward science electives.

**CS 301: COMPUTER ARCHITECTURE**

Prerequisite: CS 122

An introduction to the characteristics of computer systems at the digital logic and organization levels.

**CS 302: THEORY OF COMPUTATION**

Prerequisite: MATH 224 and MATH 250

An introduction to the logical and mathematical foundations of computer science. Topics discussed include models of computation, grammars and parsing, solvable and unsolvable problems, and P/NP complexity classes.

**CS 303: COMPUTER ALGORITHMS**

Prerequisite: CS 230 and MATH 224

An introduction to the design and efficiency of algorithms from both sequential and parallel perspectives, including identifying characteristics of sequential algorithms which are easily parallelizable and different parallel computing paradigms.

**CS 304: THEORY OF PROGRAMMING LANGUAGES**

Prerequisite: CS 230 and MATH 224

Issues in the design and implementation of a programming language including type models, control models, parameter passing, and storage management. Formalisms to describe the syntax and semantics of a programming language.

**CS 320: CYBER ETHICS**

Prerequisite: None

An introduction to basic culture, social, legal, and ethical issues inherent in the discipline of computing.

**CS 325: MOBILE APPLICATIONS DEVELOPMENT**

Prerequisite: None

An introduction to application development for handheld devices. The course teaches the design and implementation of applications for Android-driven devices.

**CS 393: INTERNSHIP**

Prerequisite: CS 121, Learning Contract

Credit will be granted for field experience in computer science relevant to the student's educational development and career goals. This work may be done on campus by providing technical assistance to faculty. Examples include UNIX administration and maintaining the hardware lab. Alternatively, this work may be done off campus. Prior approval of a CS faculty member is required. Does not count toward science electives.

**CS 421: PRINCIPLES OF OPERATING SYSTEMS**

Prerequisite: CS 230 and CS 301

Introduction to the design and implementation of modern operating systems. Topics include processes, interprocess communication, I/O management, memory management, file systems, and security.

**CS 427: COMPUTER GRAPHICS**

Prerequisite: CS 303 and MATH 307

An introduction to computer graphics concepts. Several graphics algorithms will be presented and implemented. Graphics theory in clipping, rotation, three-dimensional graphics and other related topics will be explored.

**CS 433: COMPUTER NETWORKS**

Prerequisite: CS 230 and CS 301

Presents computer networks and internets from the lowest level of data transmission over hardware to the highest level of communication between software applications.

**CS 435: CYBER SECURITY**

Prerequisite: None

A study of information system security concepts and domains. The course delivers fundamental information security principles as well as real-world applications and examples.
CS 460  ADVANCED TOPICS IN COMPUTER SCIENCE  1-3
Prerequisite: CS 230
This course is offered subject to student need, faculty availability, and with the approval of the department chair and college dean. Topics may include Neural Networks, and System Programming. Repeatable for different topics.

CS 493  INTERNSHIP  1-3
Prerequisite: CS 121, Learning Contract
Credit will be granted for field experience in computer science relevant to the student's educational development and career goals. This work may be done on campus by providing technical assistance to faculty. Examples include UNIX administration and maintaining the hardware lab. Alternatively, this work may be done off campus. Prior approval of a CS faculty member is required. Does not count toward science electives.

CS 499  SOFTWARE DEVELOPMENT  3
Prerequisite: CS 304
Application of product engineering methods to the design and development of software - quality assurance, project management, requirements analysis, specifications, design, development, testing, production and maintenance.

DIETETICS (DIET)

DIET 130  PRINCIPLES OF FOOD AND MEAL PREPARATION  3
Prerequisite: None
An examination and application of the components that contribute to managing and organizing the preparation of meals at the consumer level, involving menu planning, food procurement, food safety issues, recipe modifications for specific dietary concerns, budgeting, and hospitality.

DIET 210  INTRODUCTION TO DIETETICS  2
Prerequisite: None
This course will examine and discuss the profession of dietetics including educational requirements for becoming a registered dietitian (R.D.), professional organizations, career pathways, and the role of the dietitian in patient care. Students will be introduced to nutrition-related research, its methodology, applications, and areas for future investigation. Students pursuing a degree in dietetics will be encouraged to join student chapters in The Academy of Nutrition and Dietetics (AND), Ohio Dietetic Association (ODA), Ohio Nutrition Council (ONC), and Mohican Area Dietetic Association (MADA) and attend one professional meeting.

DIET 213  SOCIETY'S INFLUENCE ON BODY IMAGE AND EATING  3
Prerequisite: Sophomore Status
This course will examine the societal determinants of a person's body weight, such as the influence of the family/parental, peers, societal norms, and the food and entertainment industries' impact on body image and dietary behaviors. This course will explore these societal factors that influence disordered eating, body shape, and weight loss/gain and discuss strategies to address these areas.

DIET 230  FOOD SCIENCE & APPLICATIONS  3
Prerequisite: None
Discussions related to the chemical properties of food substances, their nutritional importance, and their application in a laboratory setting.

DIET 320  HUMAN NUTRITION  3
Prerequisite: CHEM 103 or CHEM 251 for CHEM 253
Exploration and discussion of basic principles of human nutrition, which include digestion/absorption, macro and micronutrients and their metabolism, energy balance, sports nutrition, nutrition and chronic illnesses.

DIET 330  NUTRITION COUNSELING SKILLS  3
Prerequisite: DIET 320
This course will examine the nutrition counseling skills necessary for an entry-level dietitian when working with groups or individuals in clinical or community settings. Practice in use of dietary analysis software programs and the development of nutrition educational materials incorporating health behavioral change models appropriate for various age groups and life cycle stages will also be examined.

DIET 343  ACTIVE AGING & WELLNESS  3
Prerequisite: None
An examination of the role that lifestyle, nutrition, physical activity and/or exercise play in modifying physiological/functional age and in determining the quality of life of older adults.

DIET 360  LIFECYCLE NUTRITION  3
Prerequisite: None
This course will examine and discuss the importance of nutrients (carbohydrates, lipids, proteins, vitamins, and minerals) throughout the various life cycles of human development; including preconception, pregnancy, infancy, childhood, adolescence, adulthood, and geriatrics. Discussions will focus on reducing health risk factors among these stages with emphasis on nutritional intake.

DIET 370  COMMUNITY NUTRITION  3
Prerequisite: None
This course will examine nutrition in U.S. communities and national nutrition directives and guidelines for health promotion and disease prevention across the lifecycle. Primary, secondary, and tertiary strategies will be discussed. Nutrition epidemiology in prevention and disease, national and state nutrition policies, programs, and how nutrition professionals function in these various environments will be explored.

DIET 385  ADVANCED HUMAN NUTRITION  3
Prerequisite: None
Exploration and discussion of advanced principles of human nutrition, which includes the anatomy and physiology of digestion/absorption, metabolism of macro and micronutrients and their physiological significance, physiology of energy balance, nutritional intake and chronic illnesses.

DIET 395  VITAMINS & MINERALS  3
Prerequisite: DIET 320, CHEM 104
This course will explore the biological functions of vitamins and minerals in human nutrition. This will include a review of the essential functions of vitamins and minerals, health implications of varying amounts of vitamins and minerals in the diet, as well as examining interactions between vitamins, interactions between minerals, and vitamin and mineral intake of vitamin and mineral levels for optimal health and prevention of chronic illnesses for various stages of the life cycle.

DIET 400  NUTRITION & DISEASE I  3
Prerequisite: None
This course will examine the implementation of medical nutrition therapy (MNT) for chronic and acute medical disorders. It will include the development of medical nutrition therapy plans appropriate for these conditions for individuals throughout the lifecycle. Medical disorders examined in this course include pediatric, neurological, pulmonary, cardiovascular, gastrointestinal, hepatic, pancreatic, biliary, and endocrine.

DIET 425  NUTRITION & DISEASE II  3
Prerequisite: DIET 400
This course will examine the implementation of medical nutrition therapy (MNT) for chronic and acute medical disorders. It will include the development of medical nutrition therapy plans appropriate for these conditions for individuals throughout the lifecycle. Medical disorders examined in this course include weight management, musculoskeletal and collagen, hematological, cancer, surgical, AIDS, renal, enteral and parenteral nutrition.
This phenomenon is important to a well-educated person. Meets Core credit for social sciences.

ECON 201 | ECONOMICS LEARNING AND INSTRUCTION | 3
**Prerequisite:** For Education majors only
A sophomore level course designed to teach education majors the principles of economics in a manner designed to assist them in incorporating these concepts into the K-12 curriculum. In addition to quizzes and examinations students may be expected to prepare one or more lesson plans or instructional units appropriate to the grade level they are preparing themselves to teach. Instructional materials produced by the National Council on Economic Education, the Federal Reserve System and others are featured. No credit if courses numbered Economics 200 or higher have previously been taken.

ECON 232 | PRINCIPLES OF MICROECONOMICS | 3
**Prerequisite:** None
Analysis of the pricing processes in a private enterprise economy under varying competitive conditions, their role in the allocation of resources and the functional distribution of national income. Special emphasis is given to theoretical analysis as applied to business problems. Meets Core credit for social sciences.

ECON 233 | PRINCIPLES OF MACROECONOMICS | 3
**Prerequisite:** None
An examination of the determinants of national income, employment and the price level in the private enterprise system, including analysis of consumption and saving, private investment, government fiscal policy, business fluctuations, and the interaction between money and national income. International economic relations are also emphasized. Meets Core credit for social sciences.

ECON 250-259 | TOPICS IN ECONOMICS | 1-3
**Prerequisite:** None
Courses devoted to various topics of current interest in economics. Courses will be designed to meet the educational needs of selected groups of students, but will not be applicable to a particular major or minor. Repeatable for new topics.

ECON 301 | GAME THEORY | 3
**Prerequisite:** Core math/logic requirement
Techniques using classical game theory, auction design, controlled human-subject experiments, evolutionary game theory, and agent-based computer models are used to understand and solve situations involving potential conflict and cooperation such as military strategies, the auction of FCC licenses, the Middle East conflict, and the rise of resistant strains of bacteria in hospitals. While game theory is demanding in terms of reasoning ability, the focus of the class will be qualitative rather than quantitative analysis. Meets Core credit for social sciences.

ECON 302 | THE ECONOMICS AND HISTORY OF ENTREPRENEURSHIP | 3
**Prerequisite:** None
This course examines the social, institutional, and economic environment from which some important American entrepreneurs have emerged and analyzes their impact on society. Emphasis is put on the institutional and economic environment in which an entrepreneur operates and the impact of the entrepreneur on this environment. Entrepreneurship is an important part of the modern social and business milieu, and an understanding of this phenomenon is important to a well-educated person. Meets Core credit for Social Sciences.

ECON 321 | PUBLIC FINANCE | 3
**Prerequisite:** ECON 322
The economic theories of taxation and government finance as demonstrated at federal, state and local government levels. The interrelation of public finance and economic stability and growth is explored to discover the basis and objectives of financial policy.

ECON 324 | ECONOMICS OF GOVERNMENT AND BUSINESS | 3
**Prerequisite:** ECON 101 or ECON 232 or ECON 233
This course examines the economic effects of the attempts of government to regulate natural monopolies and monopolistic behavior, and other business practices in the public interest and to promote and maintain competition in other areas of the economy. This course will provide students with a perspective on how economics analyzes the interaction of government and business. Government regulation is pervasive in the social and business environment, and the ability to analyze this phenomenon is important to a well-educated person. Meets Core credit for social sciences.

ECON 331 | COMPARATIVE ECONOMICS | 3
**Prerequisite:** ECON 323 or ECON 233
In today's world economy, countries around the globe have fashioned their own versions of economic system compatible with their culture and social values. This course will focus on why and how this has occurred, through the investigation and critique of various countries' economic systems from a cultural point of view. Special emphasis will be given to the understanding of selected countries (including Germany, Japan, France, Sweden, Brazil, Russia, China, and India) and cultures and prevailing economic policies and institutions. Meets Core credit for social science CCI - Critical Cultural Inquiry.

ECON 332 | INTERMEDIATE MICROECONOMICS | 3
**Prerequisite:** ECON 232
A study of the conditions of producer and consumer equilibrium, price of products within the firm and the industry both under perfect and imperfect competition, and price and employment of factors of production.

ECON 333 | INTERMEDIATE MACROECONOMICS | 3
**Prerequisite:** ECON 233
Every American deals with and should understand macroeconomics. This course applies powerful tools of economic analysis to answer questions like: Will globalization destroy good jobs in the U.S.? Does free trade make the average American better off? Are today's budget deficits bad for future generations? Will Social Security go bankrupt? What determines how fast the U.S. economy grows? How do the President and the Fed affect the economy? Should the U.S. help developing countries grow faster?

ECON 334 | MONEY AND BANKING | 3
**Prerequisite:** ECON 233
The functioning of a private enterprise society is analyzed in terms of money in all of its economic aspects, including its amount, form and flow, and the institutions, public and private, that assist in mobilizing and distributing purchasing power. A historic approach is included to provide a foundation and a perspective.

ECON 342 | GLOBAL ECONOMICS | 3
**Prerequisite:** ECON 232 or ECON 233
The theory of international trade, exchange rates, trade barriers, balance of payments disequilibrium, United States commercial and aid policies, regional economic integration and international economic development. Environmental, operational and functional variables in international economics.

ECON 346 | MANAGERIAL ECONOMICS | 3
**Prerequisite:** ECON 232
A study of the economics applied to decision making, managerial economics emphasizes the use of economic analysis in clarifying problems, in organizing and evaluating information and in comparing alternative courses of action. The general problem of resource allocation will be dealt with in the context of business enterprises, non-profit organizations and public agencies.
ECON 348  BUSINESS ANALYTICS I  3
Prerequisite: MATH 208
This course teaches the basic skills, applications, and practices necessary for continual exploration and investigation of organizational data. Based on statistical methods, business analytics teaches inferences for new insights and understandings of organizational performance. The course presents the logical process of conducting a statistical analytics project. Topic coverage includes descriptive and inferential statistics. Emphasis will be given to written descriptions of analytical results. Students are encouraged to analyze data related to their major.

ECON 407  ECONOMICS OF LABOR  3
Prerequisite: ECON 232
This course is primarily a study of the institute- nalization of labor as an economic, social and political force. A survey of the historic and economic roots of labor power, the existence of organized labor as a social phenomenon, and the resultant implications for other social, political and economic institutions. Offered infrequently.

ECON 426  INTRODUCTION TO ECONOMETRICS  3
Prerequisite: MATH 208; ECON 232 or 233
This course is designed to expose students to the use of multiple regression as a model building tool. Topics covered include: design of multiple regression models; statistical analysis of regression models; problems and techniques of correcting for multicollinearity, autocorrelation, specification error and heteroscedasticity; and design of distributive lag models. This course is recommended for a student planning to attend graduate school. Offered Infrequently.

ECON 438  EMPIRICAL METHODS IN ECONOMICS  3
Prerequisite: ECON 232; 233; 332 or 333; MATH 208
This course is designed to teach students real world analysis of the empirical economic models. The techniques used to develop these models and collect the necessary data to test them are taught. Among the topics are simple, multiple, and special purpose regression models, statistical analysis of these models, and techniques for correcting the various problems found in statistical analysis, and the methods of communicating empirical research.

ECON 440  SENIOR ASSESSMENT  1
Prerequisite: All ECON coursework or concurrent
Assessment of the student's collaborative professional activity as well as the student's ability to apply key economic methods of analysis. The student will orally present the results of the collaboration with the research advisor. A comprehensive essay will be used to assess the student's knowledge of key methods of analysis.

ECON 448  BUSINESS ANALYTICS II  3
Prerequisite: ECON 348
How can data be used to inform business decisions? Students in this class learn how to use computer software to analyze data to build models of consumer and firm behavior. Students begin by extending their practical and theoretical understanding of multiple linear regression, and progress to extensions including logistic regression. Students also learn critical “big data” skills such as data reduction, missing data imputation, model training, and model selection. The course concludes with a project analyzing student-gathered data. Emphasis throughout the course is on using data to inform decision-making.

ECON 449  RESEARCH IN BUSINESS ANALYTICS  3
Prerequisite: ECON 448 or IS 472 or MGT 340
This course is designed to allow students to apply their knowledge of business analytics to an empirical research question. Students will define an empirical research question; collect, organize and clean data using an industry standard statistical program; perform data description; apply appropriate tools of inference to answering their question; and write either a technical report or a scientific paper.

EDUCATION-CURRICULUM/INSTRUCTION (EDCI)

EDCI 230PK  GRADES PREK-12 FIELD EXPERIENCE I  1
Prerequisite: EDFN*130 or permission of instructor (FREN*252 or SPAN*272 for foreign language majors; MUSIC*204 or concur. for music majors) Field hours: 45
Field hours: 45 Special studies and investigations and/or field experience at the teacher aide (observation/assistance) and small group level in working with school age youth in primarily rural/small town settings, with the focus being on PreK-6. Students may be concurrently enrolled in an appropriate methods course.

EDCI 230SEC  AYA (7-12) FIELD EXPERIENCE I  1
Prerequisite: Concurrent with EDCI 232.
This course is designed to provide education majors who seek a Adolescent to Young Adult license (7-12) with opportunities to observe the setting, organization, and climate of schools and to interact appropriately with students in individual, small group, and whole class settings. Emphasis is on the effects of school climate and methodology on individual students within a diverse group of school age youth. Students will complete 45 hours of field/clinical experience in a multi-cultural setting.

EDCI 232  INTRODUCTION TO THE PRINCIPLES OF INSTRUCTIONAL TECHNOLOGY  3
Prerequisite: EDFN 202
Introduces the theories and principles of instructional technology. The five main areas of focus are research, theory and history of IT; visual literacy; evaluation of IT including information on design criteria, the relationship of IT to learning styles; and instructional computing experiences. To assist in developing a link between theory and practice, students will also have some hands-on experience with various forms of instructional technology and with problem solving techniques appropriate to the media.

EDCI 234  MIDDLE GRADES PHILOSOPHY, ORGANIZATION  3
Prerequisite: EDFN 130
This course is designed specifically for education majors who seek a middle grades license (4-9). Emphasis is placed on the philosophy of middle level schools, the psychology of the preadolescent and adolescent student, the role of the teacher as counselor, teaming, curriculum and instruction.

EDCI 236  MIDDLE GRADES FIELD EXPERIENCE I  1
Prerequisite: Concurrent with EDCI 232, EDFN 130
This course is designed to provide education majors who seek a middle grade license (4-9) with opportunities to observe the setting, organization, and climate of middle schools and to interact appropriately with students in individual, small group, and whole class settings. Emphasis is on the effects of school climate and methodology on individual students within a diverse group of adolescent and preadolescent students. Students will complete 45 hours of field/clinical experience in a multi-cultural setting.

EDCI 312  TEACHING READING WITH LITERATURE  3
Prerequisite: EDEC 140 for middle school licensures only
This course provides an understanding of the selection and instruction of young adult literature in order to facilitate the continued literacy development of adolescents. Included in the required knowledge base is history, criticism, trends, authors, illustrators, types of literature, instructional strategies, and organization of literature instruction and programs.

EDCI 315  INTERNATIONAL STORYTELLING  3
Prerequisite: See COM 315 for course description
EDCI 316  TEACHING THE 21ST CENTURY ADOLESCENT – LANGUAGE ARTS  3
Prerequisite: EDFN 202; EDCI 232; to be taken concurrently with EDCI 330: Field Experience II Grades 7-12 or EDCI 336: Field Experience II Middle Grades
This course provides candidates with instructional methodologies appropriate for guiding students in grades 4-12 to meet the Ohio content standards for the English language arts. The course particularly focuses on methods for teaching the process of composition and for making and evaluating writing assignments in a variety of genres.

EDCI 317  TEACHING THE 21ST CENTURY ADOLESCENT – MATHEMATICS  3
Prerequisite: EDFN 202; EDCI 232; to be taken concurrently with EDCI 330: Field Experience II Grades 7-12 or EDCI 336: Field Experience II Middle Grades
This course is designed to prepare the middle childhood and AYA mathematics teacher to plan, deliver and assess effective instruction to adolescents. It will provide the student with classroom instructional methods, strategies for teaching mathematics in grades 4-12.

EDCI 318  TEACHING THE 21ST CENTURY ADOLESCENT – SCIENCE  3
Prerequisite: EDFN 202; EDCI 232; to be taken concurrently with EDCI 330: Field Experience II Grades 7-12 or EDCI 336: Field Experience II Middle Grades
This course is designed to prepare middle childhood and AYA science teacher to plan, deliver, and assess effective instruction to adolescents. It will provide teacher candidates with classroom instructional skills, methods, and strategies for teaching science in grades 4-12.

EDCI 319  TEACHING THE 21ST CENTURY ADOLESCENT – SOCIAL STUDIES  3
Prerequisite: EDFN 202; EDCI 232; to be taken concurrently with EDCI 330: Field Experience II Grades 7-12 or EDCI 336: Field Experience II Middle Grades
This course is designed to prepare middle childhood to high school social studies teachers to plan, deliver and assess effective instruction to young adolescents. Emphasis in the course will include how teachers must respond to the unique developmental nature of the learner. As life-long learners teachers should be familiar with the National Council for the Social Studies, and other appropriate professional organizations, to help guide their professional development. Creating effective lessons, using appropriate assessment techniques and using the resulting data to drive instruction are central to the course objectives. Other topics include grading practices and building a positive learning environment while managing the class appropriately.

EDCI 330PK  GRADES PREK-12 FIELD EXPERIENCE II  3
Prerequisite: EDCI 230; PSYC 218; Field hours: 135
This course provides teacher education students with effective classroom management skills for educating for diversity. During seminars and field experiences students will develop techniques for teaching students of diverse backgrounds and abilities, including dealing with surface behavior problems, laws concerning teacher-student rights, and communicating with parents. Field experience may occur in urban/multicultural, suburban, or rural/small town setting with the focus being on grades 7-12.

EDCI 330SEC  AYA (7-12) FIELD EXPERIENCE II  2
Prerequisite: EDCI 230, 232; PSYC 218; To be taken concurrently with either EDCI 316/317/318/319; Field hours: 135
This course provides teacher education students with effective classroom management skills for educating for diversity. During seminars and field experiences students will develop techniques for teaching students of diverse backgrounds and abilities, including dealing with surface behavior problems, laws concerning teacher-student rights, and communicating with parents.

EDCI 332  INSTRUCTIONAL DESIGN AND ONLINE INTERACTION  3
Prerequisite: EDCI 232
This course introduces the processes of instructional design in education and its foundation in behaviorism and general systems theory (GST). Students will use systems associated with instructional design to assess learning needs, design, develop, implement, and evaluate instruction.

EDCI 333  LEARNING MANAGEMENT SYSTEMS AND ONLINE ASSESSMENTS  3
Prerequisite: EDCI 332, EDCI 232
This course provides students with the skills of managing a learning management system related to their curricular area and target age of licensing. Course objectives include effective planning and execution of learning activities, communication strategies and behaviors, transparency of assessment processes, and the provision of clear expectation in management and comportment.

EDCI 336  MIDDLE GRADES FIELD EXPERIENCE II  2
Prerequisite: (EDFN 130, Block I EDCI 232/236). Enrollment is to be concurrent with Middle Grades Block II: two concentrations from EDCI 316/317/318/319
Provides opportunities to make decisions relating to assessment, instruction, evaluation, and intervention in the student's content areas of concentration and in interdisciplinary activities. Focus will be on implementing effective instruction and assessment with middle grades students in small group, individual and whole-class settings.

EDCI 392  CONTENT AREA READING  3
Prerequisite: None. Clinical hours: 10
A course designed to prepare teachers of all content areas to help students think, learn, and communicate with both print and non-print texts. The course focuses on instructional approaches that help learners interact successfully with a broad range of texts while they develop skills and strategies needed for college and careers. Emphasis is placed on using 21st century literacy skills, especially authentic content-based inquiry.

EDCI 412  INTERVENTION & ASSESSMENTS FOR THE SECONDARY LEARNER  3
Prerequisite: 9 hours from the courses: EDEC 140, 262, 323, EDCI 261, 312, 392
This course focuses on a comprehensive approach to the teaching of reading and best practices in interventions and assessments for the secondary learner and provides students with the knowledge and skills they need to implement these methods in their own classrooms. The course will address reading strategies, interventions, and assessment for struggling readers and current research will include major areas of reading with theoretical models and effective teaching strategies.

EDCI 461  STUDENT INTERNSHIP: GRADES 7-12  10
Prerequisite: Successful completion of the requirements for student internship.
Supervised field experiences in secondary setting in certification area(s).

EDCI 467  STUDENT INTERNSHIP: MIDDLE GRADES  10
Prerequisite: Successful completion of the requirements for student internship.
Supervised field experiences in middle grades.

EDCI 469  STUDENT INTERNSHIP: PREK-12  10
Prerequisite: Successful completion of the requirements for student internship.
Supervised field experiences in PreK-12 settings in licensure area(s).
## EDUCATION-EARLY CHILDHOOD (EDEC)

### EDEC 140 PHONICS AND THE ENGLISH LANGUAGE 3
**Prerequisite:** None
A study of English as an alphabetic language. Particular attention will be given to the grapho-phonemic patterns which have emerged through history. Classroom applications will be explored with specific emphasis on the role of phonic in a balanced literacy program.

### EDEC 215 EC/ECIS FOUNDATIONS 3
**Prerequisite:** None
This course provides an overview of pertinent theories and models that have provided a foundation for both early childhood education and early childhood special education, including specific areas of ability that affect young children ages birth to eight with mild/moderate/intensive needs and gifted. Emphasis will be placed upon the discussion of the foundation of early childhood education, including early childhood special education, and current societal issues regarding young children and their education. Students will also become aware of the professional organizations (NAEYC and CEC/DEC) for early childhood education.

### EDEC 262 FOUNDATIONS IN LITERACY 3
**Prerequisite:** None
A course that promotes understanding of literacy theory and practice at the elementary through secondary school levels. The focus of the course will be to connect theoretical knowledge of the learner and the processes of reading and writing to instructional decisions, including literacy programs, instructional scaffolds, materials, and learning environments. This course is required for Early Childhood, Early Childhood Intervention Specialists, and middle Grade majors. It fulfills 3 credit hours of the Ohio 12 credit-hour literacy requirement.

### EDEC 265 ADULT-CHILD RELATIONSHIPS AND CLASSROOM MANAGEMENT 3
**Prerequisite:** None
An in-depth study of adult-child relationship within the context of the family, school, and community. The course addresses basic child guidance techniques, and also views child and adult behavior as part of a broader context. It examines individual traits of children and adults, diversity among families, and family and societal stresses as they relate to adult-child relationships. This course is blocked with EDEC 268 for Early Childhood majors.

### EDEC 268 PRE-SCHOOL METHODS AND CURRICULUM 2
**Prerequisite:** PSYC 264
A methods course for Early Childhood majors focused on preschool methods and activities to learn and utilize authentic lessons and activities, classroom-based assessment, and how to interpret and use the information to plan curriculum that is responsive to and supportive of Pre-K children’s development and learning.

### EDEC 268F PRE-SCHOOL FIELD EXPERIENCE 1
**Prerequisite:** PSYC 264
A field experience in a preschool setting focused on preschool methods and activities to learn and utilize authentic lessons and activities, classroom-based assessment, and to demonstrate the teaching skills and dispositions supportive of Pre-K children’s development and learning.

### EDEC 323 TRADE BOOKS AND TECHNOLOGY WITHIN A BALANCED LITERACY PROGRAM 3
**Prerequisite:** EDEC 262; concurrent with EDEC 330, 361
A study of the variety and uses of print and on-line resources available to the literacy provider in early childhood settings. Emphasis will be placed on the role of trade books and technology as part of a balanced literacy program for emerging readers and writers.

### EDEC 330 EC LITERACY/MULTICULTURAL FIELD EXPERIENCE 2
**Prerequisite:** EDIS 230IS or EDEC 268; EDEC 215; and successful completion of Teacher Education Screening Process; concurrent enrollment with EDEC 323 and 361. Field hours: 90
Seminars and field experiences in a multicultural setting provide teacher education students opportunities to make decisions relating to assessment, instruction, evaluating and intervention in their certification area(s) with small groups, individuals, or with the entire class.

### EDEC 361 LANGUAGE ARTS AND READING CURRICULUM METHODS 3
**Prerequisite:** EDFN 202 and EDEC 262; concurrent with EDEC 330, 323
This course provides an understanding of the development of the language arts and instructional procedures that facilitate competent oral and written communication in the early childhood pre-K grade 3 classroom.

### EDEC 363 EARLY CHILDHOOD MATHEMATICS CURRICULUM & METHODS 3
**Prerequisite:** MATH 217; concurrent with EDEC 369, 403, 445, 417
A study of the curriculum content recommended for pre-kindergarten through the third grade, along with the instructional methodology appropriate for teaching the content. Emphasis will be placed upon the content, processes, environment materials, and developmentally and individually appropriate practices for all learners.

### EDEC 369 ASSESSMENT AND EVALUATION OF YOUNG CHILDREN WITH SPECIAL EDUCATIONAL NEEDS 3
**Prerequisite:** PSYC 264; concurrent with EDEC 363, 403, 445, 417; Clinical hours: 5
A comprehensive course designed to address pertinent issues, as well as procedures, of assessment and evaluation of young at-risk and handicapped children. Participants will be involved in local programs that service families of and/or at-risk and handicapped young children.

### EDEC 400 BEHAVIOR & SOCIAL INTERVENTION 3
**Prerequisite:** EDEC 215
Comprehensive studies of positive classroom and individual student management techniques. Emphasis is on developing appropriate strategies for young children with diverse backgrounds and developmental needs.

### EDEC 403 EARLY INTERVENTION AND INTEGRATION FOR YOUNG CHILDREN WITH SPECIAL EDUCATIONAL NEEDS 3
**Prerequisite:** PSYC 264; concurrent with EDEC 363, 369, 445, 417; Clinical hours: 5
A study of early intervention models, current trends, and service delivery for children from birth through grade three with mild, moderate, intensive, and talent potential needs and their families. Emphasis will be placed on evidence based intervention strategies, developmentally appropriate practice, and the role of family.

### EDEC 411 ASSESSMENT AND INTERVENTION IN THE INTEGRATED LANGUAGE ARTS 3
**Prerequisite:** 9 hours from EDEC 140, 262, 323, 361, EDCI 261, 306, 312, 392
This course provides experiences in using focused and ongoing assessment to develop instruction that is responsive to the needs of K-12 students who are struggling with literacy. The lab component of this course requires the participant to implement the assessment/instructional process with specific children and to effectively document and present children's progress.

### EDEC 417 SENIOR FIELD EXPERIENCE IN CONTENT TEACHING AND INTERVENTION 3
**Prerequisite:** EDEC 330EC and successful completion of the Teacher Education Screening Process; concurrent enrollment with EDEC*363, 369, 403, 413, 414; Field hours: 115
Seminars and field experiences in an early childhood placement provide senior teacher education students the opportunity to implement and practice methods learned in previous and concurrent courses. The field-
Candidates will evaluate their professional progress by using the Ohio order to be a fully recognized member of the teaching profession. This course focuses on the social and cultural forces that currently shape school policy and practice and on the expectations that must be met in order to be a fully recognized member of the teaching profession. Candidates will evaluate their professional progress by using the Ohio Standards for Teaching Professionals and will explore issues facing the education profession that have implications for their future career.

EDUCATION-INCLUSIVE SERVICES/ EXCEPTIONAL LEARNERS (EDIS)

EDIS 230IS WORKSHOP IN TEACHING INTERVENTION SPECIALIST 2
Prerequisite: EDFN 130 or equivalent (EDEC 215 for ECIS); Field hours: 60
A field placement in an inclusive education setting.

EDIS 245 INTERNATIONAL PERSPECTIVES ON DISABILITY 3
Prerequisite: None
This course will explore the various theories of disability (ableism/disablism, social, and medical models) and how disability is interpreted by the larger society. People with disabilities are often viewed as being deviant, stigmatized and incompetent and therefore, are marginalized from the normal population. This course will explore the construct of disability through the lens of race, gender, socio-economic class, geographic region and popular culture's presentation of disability in media.

EDIS 250 INTRODUCTION TO EDUCATIONAL INTERVENTION 3
Prerequisite: None
Designed to review the history, legislation, legal definitions, characteristics, and educational concerns of students with need for mild/moderate/intensive educational intervention. Issues of assessment, identification, individualized educational programming, educational trends, service alternatives, and professional resources will be emphasized.

EDIS 251 ORIENTATION TO DEAF CULTURE AND INTO AMERICAN SIGN LANGUAGE 3
Prerequisite: Field/Clinical hours: 20
An introduction to deaf culture, etiology, advocacy groups related to the deaf and/or nonverbal communication methods. Historical, sociological and literary aspects will also be studied. Develops elementary conversational skills in sign language. May not be used to fulfill the foreign language requirement.

EDIS 253 ASSISTIVE AND INSTRUCTIONAL TECHNOLOGY FOR INTERVENTION SPECIALIST 3
Prerequisite: Concurrent with EDIS*230IS, 257, 451
Trains students to use technology and materials specifically to teach and assist exceptional learners. Adaptations to technology and materials typically available and those specifically designed to assist the learner with challenges will be studied.

EDIS 257 SENSORY MOTOR-INTERVENTION SPECIALIST MODERATE/INTENSIVE 3
Prerequisite: For Intervention K-12; EDIS*250, concurrent with EDIS*230IS, 253, 451; for Early Intervention PreK-3; EDEC*215, concurrent with EDIS*230IS, 253
Provides curriculum models, specialized methods, materials and equipment to teach students with moderate and intense special needs in the areas of vision, hearing, sensory motor, physical and health needs.

EDIS 330IS WORKSHOP INTEACHING STUDENTS WITH MILD/MODERATE/INTENSIVE EDUCATIONAL INTERVENTION IN MULTICULTURAL SETTINGS 3
Prerequisite: EDIS 230IS; concurrent with EDIS 343, 441; Field hours: 110
Seminars and field experience to afford students working toward Intervention Specialist licensure opportunities to teach students with need for mild/moderate/ intensive educational intervention in inclusive multicultural environments.
EDIS 340 WORKSHOP IN TEACHING STUDENTS WITH MILD/MODERATE/INTENSIVE EDUCATIONAL NEEDS 2
Prerequisite: EDIS 230IS; Field/Clinical hours: 90; Concurrent with EDIS 342, 355, 442
Seminars and field experience to afford students working toward Intervention Specialist Licensure opportunities to teach students with mild/moderate/intensive educational needs.

EDIS 342 ASSESSING AND TEACHING CHILDREN WITH MILD/MODERATE EDUCATIONAL NEEDS 3
Prerequisite: EDIS 230IS, 250; Field/Clinical hours: 30-in after school lab program; Concurrent with EDIS 340, 355, 442
Explores and applies a variety of curriculum options, methods, materials, and technology available for students with mild/moderate educational needs.

EDIS 343 CURRICULUM/METHODS FOR CAREER AND DAILY LIVING SKILLS FOR STUDENTS WITH NEEDS FOR MILD/MODERATE/INTENSIVE EDUCATIONAL INTERVENTION 3
Prerequisite: EDIS 230IS, 250; Concurrent with EDIS 330IS, 441
Emphasis is on curriculum, methods, materials, and technology to be used in teaching career, self-care, community living, personal-social, and occupational skills to students with needs for mild/moderate/intensive educational intervention.

EDIS 355 INTERVENTION & REMEDIATION IN MATH: ASSESSMENT AND INSTRUCTIONAL METHODS 3
Prerequisite: EDIS 230IS, 250; concurrent with EDIS 340, 342, 442
This course is designed to teach students assessment and instructional techniques for working with individuals grades K-12 in need of intervention and remediation in mathematics based on the Common Core Mathematics Standards. Emphasis will be placed on working with students with mild to intensive need for educational intervention.

EDIS 405 LEGAL, SOCIAL AND PROFESSIONAL ISSUES FOR INTERVENTION SPECIALISTS 3
Prerequisite: Teacher education student; senior status
A course designed to study current issues in education, with a view toward understanding the issues surrounding special education and its role within education as a social institution. Students review the American legal system and laws governing special education at federal and state levels and address issues from a teaching perspective. Special education law, social, historical, and philosophical effects will be explored. The course includes procedures specific to programs for learners with need for educational intervention.

EDIS 441 CREATING EFFECTIVE LEARNING ENVIRONMENTS 3
Prerequisite: EDIS 250, EDIS 230IS; concurrent with EDIS 330IS, EDIS 343
This course is designed to introduce the social and emotional growth and needs of students with emotional and/or learning differences. This course teaches pre-service teachers how students with behavior of concern in school settings may be identified as eligible for special education, how to systematically approach functional behavior assessments, and how to work with a team to construct effective behavior invention plans using multiple methods of teaching students whose behavior interferes with education. Emphasis is on an educative rather than punitive approach to changing behavior.

EDIS 442 COMMUNICATION, CONSULTATION, AND TEAMING SKILLS 3
Prerequisite: EDIS 250; Concurrent with EDIS 340, 342, 355
Provides an understanding of effective verbal and nonverbal communication skills, listening skills, and personality traits perceived as supportive. Emphasizes the development of sensitivity to the needs of individuals, families and professionals; collaboration, consultation and teaming; and skills of problem solving, effective handling of confrontational situations, and seeking and using support from other professionals.

EDIS 451 COMMUNICATION: INTERVENTION SPECIALIST MODERATE/INTENSIVE 3
Prerequisite: EDIS 250 or EDEC 215; concurrent with EDIS*230IS, 253, 257
Reliable communication is a vital skill to self-expression. Individuals who experience sensory, motor, perceptual, or executive function differences may develop communication systems that are not reliable means of self-expression. Prospective intervention specialists will learn how typical language and communication develop, how differences in this development may result in communication which is less than complete self-expression, and how to support and teach more complete and reliable self-expression in students K-12. Increasing techniques of communicative support will be instructed and fading or increasing these supports will be discussed.

EDIS 464 STUDENT INTERNSHIP: INTERVENTION SPECIALIST MODERATE/INTENSIVE 10
Prerequisite: Completion of all internship requirements; Field hours: 300
Supervised 12-week internship with an Intervention Specialist in a school setting.

EDIS 465 STUDENT INTERNSHIP: INTERVENTION SPECIALIST MILD/MODERATE 10
Prerequisite: Completion of all internship requirements; Field hours: 300
Supervised 12-week internship with an Intervention Specialist in a school setting.

EDIS 466 STUDENT INTERNSHIP: INTERVENTION SPECIALIST MILD/MODERATE/INTENSIVE 10
Prerequisite: Completion of all internship requirements;
Supervised field experience with an Intervention Specialist in a school setting. Individuals seeking Intervention Specialist licensure must complete this field in an inclusive setting

EDUC 100 UNIVERSITY READING IMPROVEMENT 1-3
Prerequisite: None
This course is recommended for students who wish to work on individual reading needs such as 1) reading rate, 2) comprehensive proficiency, 3) vocabulary building, and 4) reading study skill techniques. Course will be graded A, B, C, or U.

EDUC 102 UNIVERSITY STUDY SKILLS 3
Prerequisite: None
This course introduces the study skills crucial to academic success. Emphasis is placed on practice in time management, listening, taking class notes, preparing for examinations, reading textbooks, writing papers, vocabulary building, problem-solving and utilizing educational resources. Course will be graded A, B, C, or U. If a U is earned, course must be repeated.

EDUC 371 SPECIAL TOPICS 1-9
Prerequisite: None
Special topics seminars which will include topics such as early childhood/preschool, foreign language, reading, elementary/secondary education and topics pertinent to school treasurer/school business manager. All topics must be approved by the Associate Dean of the College of Education.

EDUC 470 INTERNSHIP 5-10
Prerequisite: Field Hours: 150-300
This is an intensive experience in a field agency setting conducted under the joint supervision of an on-site professional and a University representative. The approved setting selected is specifically related to the professional goals of the student. The student may receive compensation during this experience if such an arrangement is deemed appropriate by the University and the agency providing the experience.
ENG 100 COLLEGE WRITING IMPROVEMENT 3
Prerequisite: None
This course focuses on fundamentals of grammatical form and compositional structure in order to improve writing skills required for college-level papers. Students are placed in the course by ACT/SAT scores and high school records. The course is graded S/U; a grade of U requires that the course be repeated until the student achieves an S. It does not satisfy the Core composition requirement and is not open to students with credit in ENG 101 or 102. One section is designated for international students.

ENG 101 ENGLISH COMPOSITION I 3
Prerequisite: ENG 100 if required by placement
This course stresses the development of effective grammatical and rhetorical form through the assignment of expository and argumentative writing projects. Students will learn to reflect on ideas and observations, to use writing as a tool to sharpen those ideas, to reflect on their own writing process, and to use and cite sources accurately. May not be taken for S/U credit. Meets Core credit for composition I.

ENG 102 ENGLISH COMPOSITION II 3
Prerequisite: ENG 101
English 102 is the second course in Ashland University's two-semester writing sequence and involves continued emphasis on the writing process, critical thinking, close reading, the rhetorical nature of language, and research skills. The course requires frequent writing and may not be taken for S/U credit. Meets core credit for composition II.

ENG 110 WRITING LABORATORY 3
Prerequisite: None
This course offers individualized instruction and practice in writing skills or all academic writing assignments, including grammar, punctuation, sentences, paragraphs, and the short essay. Graded S/U. May be repeated once for additional credit. Does not fulfill general education or English requirement.

ENG 201 INTRODUCTION TO CREATIVE WRITING 3
Prerequisite: None
This course introduces basic techniques and forms of poetry, fiction, and nonfiction. Regular writing and reading assignments illustrate specific aspects of poetic and prose narrative form.

ENG 203 AMERICAN LITERATURE 3
Prerequisite: ENG 102
This course focuses on a specific problem or question in American society from the colonial period to the present. Possible areas of focus might include Race and Slavery; Nature and the Environment; Freedom, Democracy, and the Individual; Immigration and Nativism; Gender in America; or America at War. Meets Core credit for humanities.

ENG 210 BIBLE AS LITERATURE 3
Prerequisite: ENG 102
The course involves a sustained study of representative Biblical texts using the tools of literary analysis and approaches the Bible as literature from a social, historical, and literary perspective. Meets Core credit for humanities.

ENG 217 BRITISH LITERATURE 3
Prerequisite: ENG 102
This course involves a sustained study of selected texts of British literature and emphasizes literary content as statement of moral and philosophic attitudes in British writers. Meets Core credit for humanities.

ENG 301 WRITER'S WORKSHOP: POETRY 3-9
Prerequisite: ENG 101 and 201
This is a seminar in the writing of poetry. Professors with extensive publication experience conduct the workshop. May be repeated twice for credit.

ENG 302 WRITER'S WORKSHOP: CREATIVE NONFICTION 3-9
Prerequisite: ENG 101 and 201
This is a seminar in the writing of fiction and creative nonfiction. Professors with extensive publication experience conduct the workshop. May be repeated twice for credit.

ENG 303 WRITER'S WORKSHOP: SCREENWRITING 3-6
Prerequisite: ENG 101
This is a seminar in screenwriting. Professors with extensive film studies experience conduct the workshop. May be repeated twice for credit.

ENG 304 SHORT STORY 3
Prerequisite: ENG 102
This course is an intensive study of the short story as literary genre with particular attention to narrative construction and to techniques used by authors. Meets Core credit for humanities.

ENG 306 THE ESSAY 3
Prerequisite: ENG 102
This course is an analysis of the essay as both literary genre and source of ideas. Student writing may include essay composition.

ENG 308 THE POEM 3
Prerequisite: ENG 102
The course focuses on poetry and poetics. Meets Core credit for humanities.

ENG 309 AFRICAN AMERICAN LITERATURE 3
Prerequisite: ENG 102
This course closely examines representative works by African American writers, ranging from early slave narratives to contemporary prose, poetry, and drama. Meets Core credit for humanities.

ENG 314 LITERATURE AND GENDER 3
Prerequisite: ENG 102
This course focuses on literature that centrally engages issues of gender, including but not limited to masculinity, femininity, patriarchy, biological vs. socially constructed notions of sex and gender, and intersections between gender and other factors-including race, class, religion, and sexuality-in shaping human experience. Meets Core credit for humanities.

ENG 315 GERMAN LITERATURE IN TRANSLATION 3
Prerequisite: ENG 102
This course involves reading and discussion of a number of major writings in German literature. The students will read short stories, novels, poetry, and non-fiction. Some of the themes include the conflict between artistic and bourgeois values, class and ethnic conflict, legal issues, aesthetic concerns, and contemporary cultural movements. Meets Core Requirements for Humanities.

ENG 316 POSTCOLONIAL LITERATURE 3
Prerequisite: ENG 102
This course focuses on literatures shaped by colonialism and imperialism. The course emphasizes in-depth study of colonial and postcolonial literature supported by an understanding of the historical, social, cultural, and political contexts of that literature. Meets Core credit for humanities.

ENG 317 STUDIES IN SHAKESPEARE 3
Prerequisite: ENG 102
Students will read examples of Shakespearean histories, comedies, romances, and tragedies, exploring language and dramatic technique to develop an understanding of the structure and themes. Meets Core credit for humanities.
ENG 319  MODERN DRAMA  3
Prerequisite: ENG 102
The course studies European and American drama from the late 1800s to the present. Meets Core credit humanities.

ENG 322  MODERN POETRY  3
Prerequisite: ENG 102
This course focuses on close reading of selected modern poems and discusses the ways in which modern poetry differs from earlier work in English. Meets Core credit for humanities.

ENG 324  MODERN NOVEL  3
Prerequisite: ENG 102
This course analyzes the modern novel as art form and as social document. Representative novels in English and/or English translation will be examined to explore a central question: How is the modern novel a reaction to the problems and issues of modernity? Meets Core credit for humanities.

ENG 325  MAJOR AUTHORS  3
Prerequisite: ENG 102
This course provides a comprehensive understanding of one or more major writers. Class assignments will include extensive reading of the works of the particular writers, supplemented by critical, biographical, and historical materials. This course may be repeated under different suffixes.

ENG 330  AFRICAN LITERATURE  3
Prerequisite: ENG 102
This course emphasizes the study of literature produced on the African continent during the pre-colonial, colonial, and post-colonial periods. Primary texts will be supplemented by critical, cultural, and historical materials related to Africa. The course traces the themes of African nationalism and post-colonialism as dramatized in the works of major African authors. Meets Core credit for humanities.

ENG 332  GLOBAL FILM  3
Prerequisite: ENG 102
This course will emphasize the historical or contemporary practice of non-U.S. cinemas, focusing on one national cinema per course. Students explore the cinema of a county, region, or linguistically-related collection of countries focusing on intersections of aesthetics, socio-historical context, ideology, and film industry practices.

ENG 333  AMERICAN STUDIES-19TH CENTURY  3
Prerequisite: ENG 102
An examination of a particular topic of American literature, history, religion and/or culture from the 19th century, this course focuses on how literature captures the American spirit. Meets Core credit humanities.

ENG 334  AMERICAN STUDIES-20TH CENTURY  3
Prerequisite: ENG 102
An examination of a particular topic of American literature, history, religion and/or culture from the 20th century, this course focuses on how literature captures the American spirit. Meets Core credit for humanities.

ENG 338  THEMES AND TOPICS IN LITERATURE  3
Prerequisite: ENG 102
This course explores a major idea or theme through a wide range of literary and related texts. Typically, the seminar will focus on a particular historical, social, or artistic idea. Meets Core credit for humanities.

ENG 340  READINGS IN JEWISH LITERATURE  3
Prerequisite: ENG 102
This course involves reading and discussion of a number of major works of in Jewish literature. Students will read short stories, novels, and a memoir; some themes include religious faith, silence, the father-son relationship, gender issues, grief, wisdom, and folly. Meets Core credit for humanities.

ENG 350  CONTEMPORARY AMERICAN STUDIES  3
Prerequisite: ENG 102
An examination of a particular topic of American literature, history, religion, and/or culture from contemporary life, this course considers a body of literature, generally published within the previous twenty years, about which historical conclusions are still largely unformed. Meets Core credit for humanities.

ENG 351  ADVANCED COMPOSITION  3
Prerequisite: ENG 102
This is an advanced course in compositional form and expression emphasizing development of effective rhetorical and stylistic techniques. Students will analyze the work of representative authors. Writing assignments emphasize stylistic control and conceptual development.

ENG 360  LITERATURE OF CRIME AND RETRIBUTION  3
Prerequisite: ENG 102
This course emphasizes close analysis of literature on themes including evil, faith, insanity, racism, and motiveless malignity. Meets Core credit for humanities.

ENG 365  GREEK LITERATURE  3
Prerequisite: ENG 102
This course will address the question of the Greek view of men and women in relation both to each other and to the gods as revealed in literature. Meets Core credit for humanities.

ENG 370  RUSSIAN NOVEL  3
Prerequisite: ENG 102
This course involves reading Russian novels in English translation. Meets Core credit for humanities.

ENG 371  LITERATURE AND FILM  3
Prerequisite: ENG 102
This course emphasizes film aesthetics and visual narrative as it compares to written literary narrative.

ENG 372  NIETZSCHE AND THE PROBLEM OF VALUES  3
Prerequisite: ENG 102
This course involves reading a major work of Nietzsche in connection with other literary and philosophical texts. Meets Core credit for humanities.

ENG 401  THE LITERATURE OF EARLY ENGLAND  3
Prerequisite: ENG 102
This course is a high-level study of the literature of England from the Anglo-Saxon period through the time of Chaucer with particular emphasis on the rhetorical features of Old and Middle English.

ENG 404  THE ENGLISH RENAISSANCE  3
Prerequisite: ENG 102
A high level study of England’s literature of the Elizabethan period, this course focuses on poetry and drama.

ENG 405  PROBLEMS IN CREATIVE WRITING  3
Prerequisite: ENG 301, 302
This course is concerned with the development of individual style and voice in student writing. The course is conducted by professors with extensive publication experience.

ENG 406  17TH CENTURY ENGLISH LITERATURE  3
Prerequisite: ENG 102
This course is a high-level study of material written in England and some of its colonies during the 17th century. Class discussions are set within the context of the political and religious strife during a century building up to the English Civil War and then reckoning with its aftermath.
ENG 408 18TH CENTURY ENGLISH LITERATURE 3
Prerequisite: ENG 102
This course is a high-level study of both traditional and emergent literary traditions, from neoclassicism to sentimentalism and from satire to sensibility. This literary time period is framed by two major political revolutions: the Glorious (or Bloodless) Revolution and the French Revolution.

ENG 410 ROMANTIC MOVEMENT 3
Prerequisite: ENG 102
This course is a high-level study of major texts and critical background of the Romantic Movement.

ENG 411 VICTORIAN PERIOD 3
Prerequisite: ENG 102
This course is a high-level study of major texts and critical background of the Victorian period.

ENG 413 20TH CENTURY ANGLOPHONE LITERATURE 3
Prerequisite: ENG 102
This course is a high-level study of the literature of Great Britain, Ireland, and the Anglophone world other than America in the 20th and 21st centuries.

ENG 415 CAPSTONE COURSE IN CREATIVE WRITING 3
Prerequisite: ENG 301, 302
This course is concerned with the editing and presentation of the student's literary output. The principal work of the class will be the revision and presentation of the student's writing over his or her college writing career.

ENG 417 ENGLISH GRAMMAR & USAGE 3
Prerequisite: ENG 102
This course will provide students with knowledge of grammar, syntax, and mechanics. It is designed for those preparing to be teachers of English and Language Arts as well as for those who wish to extend their knowledge of the language.

ENG 418 HISTORY OF ENGLISH LANGUAGE 3
Prerequisite: ENG 102
This course focuses on the history of the English language, its many dialects, and vocabulary development from root words and derivational affixes. The course is designed for English majors and minors wishing to improve their knowledge of the history of the language, as well as those who will be teachers of secondary school English and Language Arts.

ENG 425 AMERICAN LITERATURE I: COLONIAL TO FEDERALIST 3
Prerequisite: ENG 102
This course is a high-level study of American writing from the Puritan period to 1845 with emphasis on the emergence of a particular American identity as expressed in literature of the period together with critical commentary.

ENG 426 AMERICAN LITERATURE II: 1830 TO 1870 3
Prerequisite: ENG 102
This course is a high-level study of American writing during the period with emphasis on Transcendentalism as a dominant literary and intellectual movement.

ENG 427 AMERICAN LITERATURE III: REALISM TO MODERNISM 3
Prerequisite: ENG 102
This course is a high-level study of the American Literary consciousness from the late 19th century to the end of WWII with emphasis on social changes produced by urbanization and industrialization as reflected in the literature of the period and in critical commentary.

ENG 428 AMERICAN LITERATURE IV: FROM WWII TO THE PRESENT 3
Prerequisite: ENG 102
This course is a high-level study of American literature from 1945 to the present with emphasis on social and cultural changes reflected in the literature of this period and in critical commentary.

ENTREPRENEURSHIP (ENTP)

ENTP 245 INTRODUCTION TO ENTREPRENEURSHIP 3
Prerequisite: None
This course will introduce students to the fundamental concepts of entrepreneurship. Special emphasis will be placed on learning how to develop an idea into a commercial opportunity. Students will learn how to write a feasibility plan for a real product or service and perform a market test of the proposed product or service.

ENTP 345 ENTREPRENEURIAL AND FAMILY BUSINESS MANAGEMENT 3
Prerequisite: ENTP 245, MGT 240, MKT 233
This course examines the special challenges of family business and other closely held corporations. Attention is devoted to family business planning, effective governance approaches in family businesses, preparing heirs for entry into and management of family firms, tax and compensation planning, and succession strategies.

ENTP 365 ENTREPRENEURIAL STRATEGIES & TACTICS 3
Prerequisite: ENTP 245, MGT 240, MKT 233
This course introduces the students to critical, integrative issues involved in the development and marketing of new products and services. The marketing and operations planning includes researching issues that are relevant for new ventures for small and growing organizations. Topics include the creativity, design of products, product promotion, feasibility study, location, physical layout, the evaluation of market potential (market research), pricing strategies, and the development of distribution relationships.

ENTP 445 NEW VENTURE CREATION 3
Prerequisite: ENTP 245, MGT 240, MKT 233
This course will focus on the process of developing a new commercial venture and the writing of a business plan. Students will also learn small business management principles for creating and operating a startup venture. Developing actual business opportunities by students will be encouraged so that business plans can be submitted to business plan competitions and investor groups after the course is finished.

ENTP 465 FINANCING A BUSINESS VENTURE 3
Prerequisite: ENTP 345, 365, 445
This course emphasizes the aspects of legal, tax, and unique financing in a new venture or emerging company which is critically important to the entrepreneur and venture manager. The financial aspects of small businesses and entrepreneurial ventures include unique alternatives of financing, the different valuation techniques, and key tactics and approaches in negotiating a purchasing price for a business. Legal and tax strategies are investigated for start-up and emerging enterprises. Studies are conducted in investigating the formation, financing, and managing of the new venture form a legal and tax standpoint.
EXERCISE SCIENCE (EXS)

EXS 190 ANATOMY AND PHYSIOLOGY FOR THE EXERCISE SCIENCES 4
Prerequisite: None
An examination of human structure and function with an emphasis on the applied aspects of anatomy, physiology, and human motor development as related to the exercise and sport sciences.

EXS 210 EXERCISE MANAGEMENT OF CARDIORESPIRATORY PATHOPHYSIOLOGY 2
Prerequisite: EXS 190
A detailed study of the physiology of the cardio respiratory system in both normal and pathologic conditions, with an emphasis on the role of exercise and other lifestyle modifications in the treatment and prevention of cardio respiratory pathologies.

EXS 258 PHARMACOLOGY FOR EXERCISE SCIENCES 3
Prerequisite: None
This course will cover various topics related to exercise science and physical activity. The student will gain a physician's and/or allied health care professional's perspective on treatment as it relates to a variety of general medical conditions, cardiovascular disease and pharmacology related to sports and physical activity.

EXS 261 MEDICAL TERMINOLOGY 3
Prerequisite: None
An introduction to basic word elements—roots, suffixes, prefixes, and combining forms used by the health and human service professions. Knowledge of proper spelling, definitions, pronunciations, and usage of medical terms related to body systems.

EXS 308 KINESIOLOGY 3
Prerequisite: EXS 190 or BIO 125 or AT 165
A study of the relationship of anatomical, physiological and mechanical principles to the muscular movement of homo sapiens. (Also PE) ES/PE credit.

EXS 309 PHYSIOLOGY OF EXERCISE 3
Prerequisite: EXS 190 or BIO 125 or AT 165
The applied study of the functioning of the systems of the human body during exercise.

EXS 310 ADVANCED PHYSIOLOGY OF EXERCISE 3
Prerequisite: EXS 309
An advanced examination of how the body responds and adapts to disruptions in homeostasis resulting from physical activity, with an emphasis on the biochemistry/endocrinology of exercise. Training/laboratory methods in exercise physiology will be included.

EXS 312 FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION I 2
Prerequisite: EXS 309
An introduction to fitness evaluation and exercise prescription. Concepts, principles, and theories for the fields of exercise physiology, kinesiology nutrition, and tests and measurements will be presented and applied to physical fitness testing and the design of exercise programs for apparently healthy individuals.

EXS 313 FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION II 2
Prerequisite: EXS 312
A continuation of ES 312 with an emphasis on fitness evaluation and exercise prescription for individuals with known pathology. Exercise stress testing protocols and basic interpretation of the electrocardiogram will be included.

EXS 314 GROUP EXERCISE LEADERSHIP 3
Prerequisite: EXS 312
This course is designed to develop proficiency in teaching skills specifically for group exercise. The focus of the course is on the standards of basic exercise guidelines, correct performance, instructional technique, and presentation. These standards are aligned with those of the Aerobic and Fitness Association of America (AFAA).

EXS 343 ACTIVE AGING AND WELLNESS 3
Prerequisite: None
An examination of the role that lifestyle, nutrition, physical activity and/or exercise play in modifying physiological/functional age and in determining the quality of life of older adults.

EXS 420 STRENGTH TRAINING PHYSIOLOGY 3
Prerequisite: None
An extensive examination of the physiological basis for muscular strength and power. The student will become familiar with various approaches to strength training, such as high intensity training, periodization of training, etc. The student will have the opportunity for NSCA certification during the course.

EXS 430 EXERCISE FOR PERSONS WITH CHRONIC DISEASES 3
Prerequisite: EXS 309
An examination of common pathologies across the life-span and their implications for exercise participation. The student will become familiar with contraindications inherent for a particular pathology and learn how to modify exercise programs to accommodate individual needs/capabilities.

EXS 474 SPORTS NUTRITION/SUBSTANCE ABUSE 3
Prerequisite: EXS 309 or DIET 320
A study of the foundations of substance abuse from both a societal and an athlete-specific perspective. A study of scientifically-based information about nutrition and diet, weight control and physical conditioning.

EXS 493 INTERNSHIP IN EXERCISE SCIENCE 1-4
Prerequisite: EXS 309, 312
Provides an opportunity to apply the theoretical knowledge gained in coursework. Location of the internship will be determined by the student's career goals and academic preparation. May be repeated.

ENVIRONMENTAL SCIENCE (EVS)

EVS 276 ENVIRONMENTAL SCIENCE SEMINAR 1
Prerequisite: None; Seniors and Juniors by permission
A seminar course that examines selected environmental science topics in conjunction with the Environmental Lecture series. May be taken twice for credit. Biology majors may take this twice for biology elective credit. EVS/Biology majors may take this a second time for biology elective credit. BIO/EVS credit.

EVS 320 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) 4
Prerequisite: GEOL 101
This course covers the fundamental principles of geographic information systems (GIS), which is the merging of cartography, statistical analysis, and database technology into computer-based systems that capture, store, manipulate, analyze, manage, and present all types of geographical data for a wide variety of applications and purposes, but with the goal of informed decision-making. Students will learn how to create interactive queries (user-created searches), analyze spatial information, edit data in maps, and present the results of all these operations, primarily applying these to geological and environmental systems. EVS/GEOL credit.
Includes planning, buying, and selling of fashion merchandise through various distribution channels; fashion management, organization, operations, and image; pricing and retail math; fashion promotion and visual merchandising.

**FINANCE (FIN)**

FIN 228  **FINANCIAL MANAGEMENT**  3
Prerequisite: ACCT 201
An introduction to the finance function: the obtaining and efficient use of capital in a business setting. Specific topics include risk and return analysis, financial planning, and decisions involving assets and equities, and the financial structure of the firm.

FIN 322  **PERSONAL ASSET MANAGEMENT**  3
Prerequisite: Sophomore status
This course is designed to introduce students to methods of effective money management. Topics discussed in this course will range from setting realistic financial goals to various methods that can be employed to accomplish those goals. This course demonstrates how to successfully face all the personal finance issues in the real world.

FIN 329  **INTERMEDIATE FINANCIAL MANAGEMENT**  3
Prerequisite: FIN 228
This course presents financial theory in a decision-making context. The course will emphasize long-term funding, optional capital structure, the cost of capital, and capital budgeting.

FIN 330  **PRINCIPLES OF INVESTMENT**  3
Prerequisite: FIN 228
An introduction to the analysis of investments in financial assets, both in an individual and a portfolio context; the characteristics and evaluation of specific investment vehicles.

FIN 358  **FINANCIAL STATEMENT ANALYSIS & SECURITY VALUATION**  3
Prerequisite: FIN 228
Building upon accounting and finance fundamentals, this course provides understanding of how businesses work, how they generate value, and how the value is captured in financial statements. The course will combine analysis of accounting financial statements and financial security valuation.

FIN 420  **FINANCIAL MANAGEMENT STRATEGY**  3
Prerequisite: FIN 329, senior status
An advanced exploration of issues in business finance: financial valuation, required rates of return for projects and companies, management of working capital and fixed assets, and obtaining funds from the debt and equity markets.

FIN 422  **SECURITY ANALYSIS**  3
Prerequisite: FIN 330
An advanced study of topics in investment management: fundamental and technical analysis of stocks, investment in bonds, convertible securities and stock options; portfolio management and capital market theory.
FIN 429  GLOBAL FINANCE  3  
Prerequisite: FIN 228  
This course focuses on the global financial environment and particularly on business operations in a global setting. Topics in multinational finance, foreign exchange risk management, financing foreign operations are emphasized.

FIN 432  INVESTMENT PORTFOLIO MANAGEMENT I  3  
Prerequisite: Finance major and FIN 422 or approval of instructor  
Teaches the fundamentals of portfolio management through integration of theory and practice. Students as a class manage an actual investment portfolio of significant worth under the supervision of the instructor.

FIN 442  INVESTMENT PORTFOLIO MANAGEMENT II  3  
Prerequisite: Finance major and FIN 432  
Proficiency in portfolio construction, management, and protection; managing the Eagle Investment Group portfolios, understanding of investment portfolio theory, mastery of current investment analysis techniques, and preparation for NASD Series 7 Securities licensure.

FIN 454  SPECIAL TOPICS IN FINANCE  3  
Prerequisite: FIN 228  
A course devoted to various topics related to current issues in finance. May be repeated once for different topics with approval of finance faculty.

FOREIGN LANGUAGES (FL)

FL 220  CONTEMPORARY LATIN AMERICAN LITERATURE IN TRANSLATION  3  
Prerequisite: None  
This course critically examines contemporary Latin American Revolutionary literature, in English translation. Meets Core credit for CCI.

FL 221  U.S. MEXICO-BORDER LITERATURE  3  
Prerequisite: None  
This course critically examines the political, socio-economic, historical, cultural, and linguistic features of the U.S.-Mexico border, including the relationships between the two nations, through literary readings and cultural analysis. Taught in English. Meets Core credit for CCI.

FL 275  PORTFOLIO ASSESSMENT PROGRAM CYCLE I  0  
Prerequisite: Sophomore Status  
A course designed to examine the progress towards SLOs for all Foreign Language Majors. Required for all French & Spanish Majors.

FL 299  CCI NARRATIVE  0  
Prerequisite: None  
CCI Narrative. This will apply to students who elect the CCI Study Abroad Track, a CCI course with Study Away or Course with Experience, or other students whose CCI completion includes the Narrative. The CCI Narrative is an analytical paper, multimedia presentation or other document in which the student demonstrates cultural and/or linguistic competencies acquired through contact with another culture. CCI Narratives that are not tied to a Course with Study Away or Course with Experience must be completed four weeks before student's graduation. Graded S/U.

FL 315  FRENCH WOMEN WRITERS  3  
Prerequisite: None  
This course examines literary works by French women writers from the Middle Ages to the 21st century through the optic of specifically historicized feminist criticism and theory. Taught in English. Literature read in translation. Meets Core credit for CCI.

FL 375  PORTFOLIO ASSESSMENT PROGRAM CYCLE II  0  
Prerequisite: FL 275  
A course designed to examine the progress towards SLOs for all Foreign Language Majors. Required for all French & Spanish Majors.

FL 432  GRADES 7-12 METHODS: TEACHING FOREIGN LANGUAGE, GRADES K-12  3  
Prerequisite: EDCI 230SEC; EDFN 202; Clinical Hours: 4  
A course designed to provide the student with classroom instructional skills, methods, and strategies in teaching grades K-12. This class is to be completed successfully prior to the internship.

FL 475  PORTFOLIO ASSESSMENT PROGRAM CYCLE III  0  
Prerequisite: FL 375  
A course designed to examine the progress towards SLOs for all Foreign Language Majors. Required for all French & Spanish Majors.

FRENCH (FREN)

FREN 151  ELEMENTARY FRENCH I  3  
Prerequisite: Placement or no prior study of French. Note: Not open to students who placed in other levels  
A comprehensive introductory course in French language for today's global world. Students develop oral and written proficiency through cultural studies. Taught in French. Offered annually. Meets Core Credit for CCI.

FREN 152  ELEMENTARY FRENCH II  3  
Prerequisite: FREN 151, placement, or transfer equivalent. Note: Not open to students who have placed into other levels  
A comprehensive introductory course in French language for today's global world. Students develop oral and written proficiency through cultural studies. Taught in French. Offered annually. Meets Core Credit for CCI.

FREN 200  INTERMEDIATE LEVEL INTENSIVE FRENCH STUDY ABROAD  6  
Prerequisite: FREN 132, placement, or transfer equivalent. Note: Not open to students who have placed into other levels  
A program designed to provide students with an intermediate level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host culture. Orientation and debriefing sessions on campus are required. Meets Core Credit for CCI.

FREN 251  INTERMEDIATE FRENCH I  3  
Prerequisite: FREN 152 placement or transfer equivalent. Note: Not open to students who have placed into other levels  
A course designed to increase the students understanding of the language by building on the skills learned in the elementary course. Students develop oral and written proficiency through and exploration of the French arts including architecture, cuisine, fashion, music, painting, etc. Lab work required. Taught in French. Offered annually. Meets Core Credit for CCI.

FREN 252  INTERMEDIATE FRENCH II  3  
Prerequisite: FREN 251, placement, or transfer equivalent. Note: Not open to students who have placed into other levels  
A continuation of FREN 251. Students develop oral and written proficiency through and exploration of French media sources including music videos, television, film, and social media. Lab work required. Taught in French. Offered annually.
FREN 300  ADVANCED LEVEL INTENSIVE FRENCH STUDY ABROAD 6
Prerequisite: FREN 252, placement, or transfer equivalent. Note: Not open to students who have placed into other levels
A program designed to provide students with an advanced-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host culture. Orientation and debriefing sessions on campus are required. Meets Core Credit for CCI.

FREN 301  FRENCH CIVILIZATION FROM LASCAUX TO VERSAILLES 3
Prerequisite: FREN 252 or equivalent
In order to understand contemporary France and the French sense of identity, this course explores and analyzes current issues, cultural manifestations, historical and geopolitical developments, and internal and external relations. French social and political institutions from the Revolution of 1789 to the present will be examined with an emphasis on the evolution of the core values of the Fifth Republic (liberty, equality, social solidarity, and the lay state) and their expression in the French context. Taught in French. Offered alternate years.

FREN 302  FRENCH CIVILIZATION FROM REVOLUTION TO PRESENT 3
Prerequisite: FREN 252 or equivalent
In order to understand contemporary France and the French sense of identity, this course explores and analyzes current issues, cultural manifestations, historical and geopolitical developments, and internal and external relations. French social and political institutions from the Revolution of 1789 to the present will be examined with an emphasis on the evolution of the core values of the Fifth Republic (liberty, equality, social solidarity, and the lay state) and their expression in the French context. Taught in French. Offered alternate years.

FREN 303  FRENCH WRITTEN EXPRESSION 3
Prerequisite: FREN 252 or equivalent
The course offers intensive review and expansion of grammar and vocabulary through structured reading and writing activities. Reading selections include cultural information from France and other French-speaking countries. Taught in French. Offered alternate years. Meets Core credit for CCI.

FREN 304  FRENCH STYLISTICS 3
Prerequisite: FREN 303 or equivalent
This course extends the concept of advanced French grammar and composition to questions of style and rhetoric. It will familiarize students with the richness of expression of the French language through an in-depth analysis of a variety of texts and writing practice. Taught in French. Meets Core credit for CCI.

FREN 305  FRENCH PHONETICS 3
Prerequisite: FREN 252 or equivalent
A course designed to provide a review of standard French pronunciation and an introduction to phonology, phonetics, and dialectology including corrective exercises and contrastive analysis of French and English sound systems. Taught in French. Offered alternate years. Meets Core credit for CCI.

FREN 351-352  INTRODUCTION TO FRENCH FICTION I & II 3-3
Prerequisite: FREN 252 or equivalent
Introduces the student to complete works of French fiction. Special attention will be given to the novella, short story, and novel as examples of modern and contemporary literary production. Works will be selected from the literature of France and Francophone countries. Taught in French. Meets Core credit for CCI.

FREN 353  FRENCH LITERATURE: MARIE DE FRANCE TO VOLTAIRE 3
Prerequisite: FREN 252 or equivalent
A close examination of major French literary texts from the Middle ages to the Revolution. The course emphasizes the ways in which representative works of pre-Revolutionary French literature are both products of and windows into their historical and cultural contexts. Students will learn and practice analysis of forms of literary expression as they relate to the production of meaning. All texts and discussions are in French. Offered alternate years. Meets Core credit for humanities.

FREN 354  FRENCH LITERATURE: REVOLUTION TO PRESENT 3
Prerequisite: FREN 252 or equivalent
A close examination of major French literary texts from the Revolution to the present read as reflections of and reactions to the historical and cultural movements of the periods in which they were written. Students will learn and practice analysis of forms of literary expression as they relate to the production of meaning. All texts and discussions are in French. Offered alternate years. Meets Core credit for humanities.

FREN 357  FRENCH ORAL EXPRESSION 3
Prerequisite: FREN 252 or equivalent
This course focuses on the practice and development of conversational fluency through a variety of culturally-related themes. Taught in French. Offered alternate years. Meets Core credit for CCI.

FREN 470  SEMINAR ON THE FRENCH-SPEAKING WORLD 3
Prerequisite: FREN 351-352 or 353-354
A seminar on topics pertinent to language, culture, civilization and literature of the French-speaking world known today as "World Literature in French." The content will vary depending upon the interest and needs of students. The course may be repeated for a total of 6 hours. Taught in French. Offered alternate years.

GEOLOGY (GEOL)

GEOL 101  PHYSICAL GEOLOGY 4
Prerequisite: None
A study of the origin of minerals and rocks and the processes acting on and in the earth and their results as reflected in topography and earth structure. Three class sessions and one lab per week. Offered every fall.

GEOL 102  HISTORICAL GEOLOGY 4
Prerequisite: None
A study of the record in the rocks, especially the fossil record and the events of the earth's formation through geological time. Three class sessions and one lab per week. This course may also count toward a degree in biology. Offered every even spring.

GEOL 103  PHYSICAL GEOGRAPHY AND THE ENVIRONMENT 3
Prerequisite: None
Analysis of climatic elements and controls leading to an improved understanding of climatic types and their world distribution, followed by a study of the physical and cultural features within the major climatic regions, especially as these features relate to climatic conditions. The climatic regions form the framework for building up general geographic knowledge. Although memorization of geographic facts (including place names) is not stressed, the students are expected to improve greatly their knowledge of such facts. Special offering, contact department.

GEOL 209  NATURAL DISASTERS: VOLCANOES AND EARTHQUAKES 3
Prerequisite: None
What are natural disasters and how can science reduce the damage done by events such as earthquakes, tsunamis, and volcanic eruptions? This course will examine these events and how scientists determine why and attempt to predict when and where natural disasters are most likely to occur, as well as identify what steps endangered communities can take in order to avoid or minimize the danger posed by these natural processes. Offered every semester. Meets Core credit for natural sciences. Student who are required or elect to take GEOL 101 for their major or minor cannot enroll in this class for credit toward their major or minor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of Course</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
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<tbody>
<tr>
<td>GEOL 210</td>
<td>NATURAL DISASTERS: SEVERE WEATHER</td>
<td>3</td>
<td>None</td>
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<tr>
<td>GEOL 211</td>
<td>DISCOVERING THE ICE AGE</td>
<td>3</td>
<td>None</td>
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<tr>
<td>GEOL 212</td>
<td>ARCHEOLOGY &amp; HUMAN ANTIQUITY</td>
<td>3</td>
<td>None</td>
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<tr>
<td>GEOL 213</td>
<td>ASTEROIDS, COMETS, AND CATASTROPHISM</td>
<td>3</td>
<td>None</td>
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<tr>
<td>GEOL 275</td>
<td>TOPICS IN REGIONAL GEOLOGY</td>
<td>1-8</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 297</td>
<td>INTRODUCTION TO LABORATORY AND FIELD RESEARCH</td>
<td>1</td>
<td>Soph or junior standing</td>
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<tr>
<td>GEOL 309</td>
<td>GEOMORPHOLOGY</td>
<td>4</td>
<td>GEOL 101</td>
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<tr>
<td>GEOL 310</td>
<td>MINERALOGY</td>
<td>4</td>
<td>GEOL 101</td>
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<tr>
<td>GEOL 311</td>
<td>A mineralogy that includes the elements of</td>
<td>4</td>
<td>GEOL 101</td>
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<tr>
<td>GEOL 312</td>
<td>IGNEOUS AND METAMORPHIC PETROLOGY</td>
<td>4</td>
<td>GEOL 311</td>
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<td>GEOL 313</td>
<td>SEDIMENTARY PETROLOGY AND STRATIGRAPHY</td>
<td>4</td>
<td>GEOL 102</td>
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<td>GEOL 320</td>
<td>INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)</td>
<td>4</td>
<td>GEOL 101</td>
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<tr>
<td>GEOL 350</td>
<td>SCIENCE AS A CULTURAL FORCE</td>
<td>3</td>
<td>See CHEM 350 for course description.</td>
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<tr>
<td>GEOL 401</td>
<td>STRUCTURAL GEology</td>
<td>4</td>
<td>GEOL 101</td>
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<tr>
<td>GEOL 402</td>
<td>ECONOMIC GEOLOGY</td>
<td>3</td>
<td>GEOL 101, GEOL 311</td>
</tr>
<tr>
<td>GEOL 403</td>
<td>ENVIRONMENTAL GEOCHEMISTRY</td>
<td>4</td>
<td>GEOL 101, CHEM 104, approval of department chair</td>
</tr>
<tr>
<td>GEOL 405</td>
<td>PETROLEUM GEOLOGY</td>
<td>4</td>
<td>GEOL 101, GEOL 313</td>
</tr>
<tr>
<td>GEOL 429</td>
<td>FIELD GEOLOGY</td>
<td>1-8</td>
<td>GEOL 310, 311, 313, 314, and 401</td>
</tr>
</tbody>
</table>

*Course descriptions:*
- **GEOL 210** - NATURAL DISASTERS: SEVERE WEATHER
  - What are natural disasters, and how can science reduce the damage done by events such as severe weather and flooding? This course will examine these events and how scientists attempt to predict when and where natural disasters are most likely to occur, as well as identify what steps endangered communities can take in order to avoid or minimize the danger posed by these natural processes. Offered every semester. Meets Core credit for natural sciences.

- **GEOL 211** - DISCOVERING THE ICE AGE
  - How was the Ice Age discovered? This class will examine how 19th century scientists used stones, bones, and landforms to bring about a revolution in our understanding of earth history. It will also examine the scientific evidence upon which current models of the Pleistocene Ice Age are built, as well as how ice, sediment, and rock cores are providing us with new insights into past and future ice ages. Meets Core credit for natural sciences.

- **GEOL 212** - ARCHEOLOGY & HUMAN ANTIQUITY
  - Where did humans come from? How far back in time can we trace the human lineage? The question of human antiquity is a topic of universal interest and speculation. Archaeology is a discipline that seeks to answer this question. This class will critically examine some of the scientific techniques archaeologists have used, discoveries they have made, and conclusions they have reached about human antiquity. Meets Core credit for natural sciences.

- **GEOL 213** - ASTEROIDS, COMETS, AND CATASTROPHISM
  - How has the discovery of giant impact craters changed our understanding of earth history? This class will examine the scientific evidence for repeated asteroid and comet collisions with the earth, the catastrophic effect of these collisions, and the re-emergence of catastrophism as a viable paradigm in modern scientific theories. Meets Core credit for natural sciences.

- **GEOL 275** - TOPICS IN REGIONAL GEOLOGY
  - A study of various topics relevant to annual field trips conducted by the department, generally 10-14 days in May. Offered every odd spring.

- **GEOL 297** - INTRODUCTION TO LABORATORY AND FIELD RESEARCH
  - This course will introduce the student to scientific research in the laboratory or field through individual instruction under the direction of a Geology faculty member. Graded S/U. Offered each semester.

- **GEOL 309** - GEOMORPHOLOGY
  - The interpretation of landscapes and landforms; their origin, evolution and relation to erosion, structure and rock characteristics. Three lectures and one lab per week. Offered every odd fall.

- **GEOL 310** - MINERALOGY
  - A course that includes the elements of crystallography, crystal chemistry and descriptive mineralogy of the important or common minerals. Three class sessions and one lab per week.

- **GEOL 311** - IGNEOUS AND METAMORPHIC PETROLOGY
  - Analysis of the principal igneous and metamorphic rocks; their origin, structure and physical and chemical composition. Three class sessions and one lab per week. Offered every even spring.
HIST 201  TOPICS IN CLASSICAL CIVILIZATION  3
Prerequisite: None
This course will study key topics in Greek and Roman antiquity. Topics may include: imperialism, sport and spectacle, literature, the family, woman, or slavery in the Greek and Roman worlds; or authors such as Plutarch, Cicero, or Seneca. Repeatable as topics change. HIST 201/POLSC 201 credit.

HIST 212  AMERICAN HISTORY THROUGH THE CIVIL WAR  3
Prerequisite: None
An examination of the creation and development of a distinctively American civilization, from its origins through the Civil War (to 1865). Meets Core credit for historical reasoning.

HIST 213  AMERICAN HISTORY AFTER THE CIVIL WAR  3
Prerequisite: None
An examination of how the fundamental American principles of freedom and equality developed as the United States emerged as the world's leading power from the Civil War to the present. Meets Core credit for historical reasoning.

HIST 218  WOMEN IN AMERICAN HISTORY  3
Prerequisite: None
A view of women as participants in the nation's growth from the earliest colonial settlements to the present. Emphasis on student use of multimedia, including films, tapes, slides, and guest speakers, to rediscover the record of women in American national life.

HIST 236  AMERICAN FOREIGN POLICY  3
Prerequisite: SEE POLSC 236 for course description

HIST 239  HISTORY OF OHIO  3
Prerequisite: None
A study of Ohio Country from its prehistoric inhabitants to the present, with a focus on the state's significance in the nation. Will emphasize the role of Ohio in the United States, including Ohio's role in the Northwest Territory and how it served as the model for statehood; its importance in the 19th century political and economic affairs; and its shift from agriculture to industry to a 21st century post-industrial economy.

HIST 261  ANCIENT GREECE  3
Prerequisite: None
This course examines the political, military and intellectual history of Ancient Greece, emphasizing the developments that have most influenced the Greco-Roman tradition in Western culture. Focusing on selected literary sources written during this period, the course confronts the rise of the polis, the development of political thought, tragedy, comedy, philosophy, and the spread of Hellenism throughout the Mediterranean.

HIST 264  ANCIENT ROME AND THE RISE OF CHRISTIANITY  3
Prerequisite: None
This course examines the political, military and intellectual history of Ancient Rome, including the rise of Christianity within Rome. Focusing on selected literary sources written during this period, the course examines the internal and external tensions that led to the rise and decline of Rome, including the factors in Roman history that were central to the rise of Christianity.

HIST 267  MEDIEVAL EUROPE  3
Prerequisite: None
A survey of ideas, events, individuals, and trends of Europe from the late Roman era to the Italian Renaissance, with an emphasis on showing how the modern world arose from a combination of Roman, Christian, and Germanic elements. The course will examine the rise of Christianity (both Roman and Orthodox), the struggle against Islam, the development of feudal society, the revival of trade and towns, and the ongoing battle between the papacy and the European monarchies.
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<tr>
<td>HIST 268</td>
<td>RENAISSANCE AND REFORMATION</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
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</table>

This course covers the intellectual and political history of the European Renaissance and the Protestant Reformation. Focusing on literary sources written during this period, the course examines the intellectual developments, art, literature, politics, and religious thought that shattered the Medieval world-view and led to the scientific revolution. The central purpose of this course is to understand how Italian and northern Humanism developed and influenced later western history.

| HIST 269    | AGE OF ENLIGHTENMENT (1600-1789)                 | 3       |
| Prerequisite: None |

Exames the intellectual and political reformation that swept Europe in the 17th and 18th centuries. Will focus on the revolution in modern natural science, the rise and fall of absolute government, the growth of the English constitution, and the development of a new liberal philosophy.

| HIST 270    | AGE OF REVOLUTION AND REACTION (1789-1900)      | 3       |
| Prerequisite: None |

Examines the history of Europe from the French Revolution to the years just before the outbreak of WWI. Topcis studied include the Congress of Vienna, industrialization, ideologies such as liberalism, socialism, democracy and nationalism, the Franco-Prussian War, and colonial expansion.

| HIST 271    | 20TH CENTURY EUROPE TO THE PRESENT              | 3       |
| Prerequisite: None |

A survey of the ideas, events, individuals, and trends of Europe since 1900, emphasizing the rise of totalitarianism and the two world wars. Through a combination of lecture and discussion of primary sources, the course will examine the origins and outcomes of World War I; the rise of collectivist dictatorships in Russia, Italy, and Germany; the Great Depression and its effects; the road to World War II; and the war itself, the postwar trends toward European union and decolonization; and the Cold War.

| HIST 301    | CULTURAL GEOGRAPHY                               | 3       |
| Prerequisite: None |

Survey of human settlement and its relationship with the physical environment, including population, ethnic and cultural patterns, economic and political organizations and the uses of land and natural resources.

| HIST 321    | WARFARE: ANCIENT AND MODERN                     | 3       |
| Prerequisite: None |

This course provides a comparative study of warfare across history, using selected conflicts from the ancient, medieval, and modern worlds to illustrate the underlying themes, causes, and motivations of wars.

| HIST 327    | AFRICA                                          | 3       |
| Prerequisite: None |

An introductory discussion of Africa before the age of Imperialism followed by an intensive study of the period of foreign control, and then a study of the independence movement and the Africa of today.

| HIST 329    | LATIN AMERICA                                   | 3       |
| Prerequisite: None |

A survey of Latin America from the days of discovery and colonization to present time, focusing on contemporary institutions of selected Latin American countries, especially Argentina, Brazil, Mexico, Cuba, and the Caribbean and Central America Republics, including relations with the United States and the problems confronting the extension of democracy in Latin America.

| HIST 341    | MODERN MIDDLE EAST                              | 3       |
| Prerequisite: None |

This course explores the development and character of important Middle Eastern countries and of relations between them, with emphasis on the influence of geography, history, religion, political ideas, statesmanship, culture, European imperialism, and natural resources.

| HIST 343    | MODERN EAST ASIA                                | 3       |
| Prerequisite: None |

In this course, students consider the political, diplomatic, and cultural history of East Asia - specifically Japan, China, Korea, and Vietnam - from roughly 1600 to the present. Of particular interest will be how the civilization of East Asia was transformed in the modern era, mainly as a result of its contract with the West.

| HIST 351    | COLONIAL AMERICA                                | 3       |
| Prerequisite: None |

This course covers colonial America from 1500 to 1776. Stress is laid upon the European backgrounds and the evolution of the political, economic and social institutions of the colonies.

| HIST 352    | THE AMERICAN FOUNDING                           | 3       |
| Prerequisite: None |

A seminar on the principles and practices of America's founding statesmen. We examine how the founders formulated and reconciled ideas (natural rights, separation of powers, federalism) with interests (economic, political, regional, etc.). HIST 352/POLSC 352 credit.

| HIST 353    | THE EARLY REPUBLIC: US 1791-1820                | 3       |
| Prerequisite: None |

In this course we will examine the political, diplomatic, intellectual, and social history of the United States from 1791 to 1820.

| HIST 354    | NATIONHOOD AND SECTIONAL CONFLICT: US 1820-1854 | 3       |
| Prerequisite: None |

This course will cover the main events, personalities, developments, and ideas in the United States between 1820 and 1854.

| HIST 355    | CIVIL WAR AND RECONSTRUCTION                    | 3       |
| Prerequisite: None |

An examination of the origins, progress, and consequences - political, historical, and economic - of the Civil War. In addition to the military aspects of the Civil War, the course looks at the immediate and long-term and problems of Reconstruction.

| HIST 356    | AGE OF ENTERPRISE AND PROGRESSIVISM             | 3       |
| Prerequisite: None |

A study of the rise of modern America. The course begins in 1877 with the end of Reconstruction, and it finishes with America's entry into World War I. Students will examine the beginnings of industrialization, the rise of cities, immigration, progressive reform, and America's ascendancy to world power.

| HIST 357    | AMERICA IN THE AGE OF WORLD WARS               | 3       |
| Prerequisite: None |

A study of the American experience from 1920-1945, exploring the Roaring Twenties, Great Depression, New Deal, and the Second World War. Political, economic, social, intellectual, and cultural currents will be addressed as well as foreign policy issues.

| HIST 358    | POSTWAR AMERICA: 1945-1973                     | 3       |
| Prerequisite: None |

An examination of the United States during the three decades following the Second World War. The social, economic, political, diplomatic development of the country is stressed with a thematic emphasis.

| HIST 359    | CONTEMPORARY AMERICA:; 1974 TO PRESENT         | 3       |
| Prerequisite: None |

Examines the United States from the end of Watergate to the present, with emphasis on the rise of the new conservatism, the collapse of the Soviet Union, and the search for a new foreign policy. The social, economic, political, and diplomatic development of the country is stressed with a thematic emphasis.
HIST 360  ECONOMIC HISTORY OF THE UNITED STATES  3
Prerequisite: None
This course is a survey of the economic development of the United States from its foundation until the present time. It emphasizes the development of industry and commerce.

HIST 364  WORLD WAR II  3
Prerequisite: None
An examination of World War II, the most widespread, costly, and destructive war in the history of the planet. The course will cover the origins of the war, the strategies pursued by the participants, and the major events in both the Pacific and European theaters from the 1930's until 1945. Further, it will consider the significance of the war for the history of Europe, Asia, and the United States.

HIST 370  TOPICS IN AMERICAN HISTORY  3
Prerequisite: None
Examines various topics, themes or ideas in American History. Students should check schedule and/or instructor to ascertain what topics are currently being offered. May be repeated once if the topic is different.

HIST 375  LINCOLN  3
Prerequisite: None
A seminar that considers the political thought, actions, and statesmanship of Abraham Lincoln before and during the Civil War. Readings include a number of his speeches, with special emphasis on the Lincoln and Douglas debates. HIST/POLSC credit.

HIST 380  TOPICS IN HISTORY  3
Prerequisite: None
This course treats various topics, themes and ideas in European or World History. Students should check schedule and/or instructor to ascertain what topics are currently being offered. The course can be taken twice if topics are different.

HIST 381  CHURCHILL  3
Prerequisite: See POLSC 381 for course description.

HIST 465  THE STUDY OF HISTORY SEMINAR  3
Prerequisite: History majors with Jr. or Sr. status or permission
Introduction to methods of historical research and writing. Exposure to specific writings, emphasizing ideas and trends of either European or American historians, but especially the latter.

HIST 497  THESIS SEMINAR  3
Prerequisite: Senior status and departmental major or minor
The course is designed for a major or minor in the Department who is researching and writing a senior thesis. It is a guided, intensive study of some topic of interest to the student, which results in a substantial scholarly paper. The student may not have acquired or be in the process of acquiring more than 3 hours of academic credit for work connected to the project to be undertaken in HIST/POLSC 497 (for example, through Independent Study).

HONORS PROGRAM (HON)

HON 101  FIRST YEAR HONORS SEMINAR  1
Prerequisite: Enrolled in Honors Program
A course designed for students admitted to the Honors Program in their first year. The course introduces student to the Honors Program and Ashland University through classes offered in seminar format, involving assigned readings, discussion, and written assignments.

HON 310  HONORS CAPSTONE PREPARATION  1
Prerequisite: Enrolled in Honors Program; at least junior status
The process of preparing a capstone project, including selecting a topic, choosing mentors, preparing a bibliography, constructing a written thesis prospectus, and outlining a timetable for completing the Capstone Project. This course is required for all juniors who plan to complete an honors thesis their senior year. The course may be taken by conference if there is a scheduling conflict. Graded S/U.

HON 390  HONORS INTERDISCIPLINARY SEMINAR  3
Prerequisite: Enrollment in Honors Program; at least sophomore status
A course devoted to various topics related to the Honors Program. Mission of challenging the mind and participating in an intellectual community devoted to discussion and dialogue. Topics will be cross-disciplinary in nature, and the course may be team taught. Typically, the course will be tied to a study abroad opportunity in the spring semesters of odd-numbered years. May be repeated once with a different topic. Meets CCI credit when completing the course with the study away component and the corresponding CCI narrative.

HEALTH SCIENCES (HS)

HS 104  FITNESS WALKING  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

HS 117  SELF DEFENSE/MARTIAL ARTS  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

HS 138  PHYSICAL FITNESS  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

HS 153  WEIGHT TRAINING  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

HS 180  LIFETIME WELLNESS  2
Prerequisite: None
An examination and application of the components that contribute to the concept of wellness-a process of moving toward optimal health and vitality that emphasizes individual responsibility for well-being through the practice of self-assessment and the adoption of health-promoting lifestyle behaviors. FCS/HS credit.

HS 182  FIRST AID AND CPR  1
Prerequisite: None
A concentrated study of preventive and remedial techniques related to safety and first aid. Successful completion of the course may certify one in CPR and Standard First Aid.

HS 201  IMPACT OF CHRONIC ILLNESS  3
Prerequisite: None
This course will explore the effects of chronic health issues on individuals and families, including lay caregivers. Psychosocial, economic, social environment, behavioral, and health care system factors influencing chronic health issues will be examined by reading 4 first-hand accounts of chronic illness. These readings will be analyzed for patterns and themes and compared with theoretical bases and research support related to chronic health experiences of the individual and family. Social justice concerns related to chronic illness, such as social stigma, availability of resources, access to care, and extension of life, will be discussed. Meets Core credit for social sciences.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HS 202</td>
<td>GLOBAL CHALLENGES IN PUBLIC HEALTH</td>
<td>3</td>
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<td></td>
<td><strong>Prerequisite:</strong> None</td>
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<td></td>
<td>This course explores the challenges of public health from an international perspective through the focused examination of three historical case studies. In addition, a prospective assessment of public health will analyze its future role in promoting and protecting the health of populations across the globe (e.g., South Asia or Sub-Saharan Africa). The core functions of public health will be discussed within the context of key case studies and compared with current public health policy and practice. Students will critically examine both historical and current public health challenges in order to gain a unique understanding of the public health needs of aggregates living in other nations, under differing socioeconomic, political and cultural conditions and the impact of those needs on allocation, constraints, and availability of resources.</td>
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<tr>
<td>HS 221</td>
<td>FOOD AND CULTURE</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>Global view of the nutritional needs of individuals and how food needs are met; issues with food supply around the world, and consideration of factors which determine what societies and families eat (i.e., taboos, beliefs, rituals, and symbolism surrounding food.) The history of how people have met their food needs and potential future developments are covered. Meets CCI credit when completing the course with the study away component and the corresponding CCI narrative.</td>
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<tr>
<td>HS 316</td>
<td>CONSUMER HEALTH</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>A broad survey of health products and information available in the market place which may help or hinder the development of a healthy lifestyle.</td>
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<td>HS 322</td>
<td>PHYSICAL AGING</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>This course emphasizes health promotion in relation to the physiological aspects of aging. The functional consequences theory, which looks at how normal age-related changes and risk factors impact function in older adults, forms the framework for the course. Assessment of various aspects of the older adult's functioning in relation to normal aging and secondary aging due to chronic disease will be covered. Interventions for maximizing function and promoting health in the elderly will be presented. (Note: This will also count in the nursing major as one of the options for the advanced human biological science elective.)</td>
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<td>HS 360</td>
<td>RESEARCH IN HEALTH SCIENCES</td>
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<td><strong>Prerequisite:</strong> MATH 208; ATR 165 or EXS 309 or DIET 320</td>
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<td>This course will examine research methodologies and study designs associated with the health sciences, athletic training, dietetics, and exercise science. Students will complete a research proposal focusing on a research question related to their field of study, including a literature review, methodology, and statistical analyses. Basic quantitative statistical procedures and qualitative data analyses will be discussed. Procedures associated with Human Subject Review Board (HSRB) applications will be reviewed.</td>
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<td>HS 380</td>
<td>NAVAJO RESERVATION CULTURAL IMMERSION</td>
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<td><strong>Prerequisite:</strong> NUR 105</td>
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<td>All students will examine the Navajo culture in the context of health care. After the semester, students in the course with Study Away option will conclude with a weeklong immersion at a Navajo reservation in Arizona. Students will interact with the Navajo people at Tsehootsooi. Medical Center and the surrounding community. Meets CCI credit when completing the course with the study away component and the corresponding CCI narrative.</td>
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<td><strong>HOSPITALITY MANAGEMENT (HSM)</strong></td>
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<td></td>
<td>HSM 135 INTRODUCTION TO THE HOSPITALITY INDUSTRY</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>An introduction to the hospitality industry through an overview of structure and financial performance of the hospitality industry, food and lodging, resorts, attractions, and related operations. Special attention will be focused on orientation to customer service, cultural/economic trends, and career opportunities.</td>
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<td><strong>HOTEL OPERATIONS</strong></td>
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<td><strong>Prerequisite:</strong> HSM 135, MGT 240, ACCT 201</td>
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<td>A systematic study of accounting principles as they apply to the lodging industry, the requirements for special accounting procedures and records and their use in maintaining sound control and in supporting management decisions.</td>
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<td><strong>HOSPITALITY COST CONTROL</strong></td>
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<td><strong>Prerequisite:</strong> MATH 208</td>
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<td></td>
<td>Introduction to the application of computers in the hospitality industry. A study of how computers are used in hotels and restaurants for controlling reservations, making room assignments helping keep track of food and beverage charges, forecasting and scheduling. The course will serve as a foundation for integrating computer usage in other hospitality curriculum. Special emphasis will be directed to computerized front office operations.</td>
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<td><strong>FOOD &amp; BEVERAGE OPERATIONS MANAGEMENT</strong></td>
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<td><strong>Prerequisite:</strong> HSM 135 and HSM 235 or DIET 210; MGT 240; HSM 335 concurrent</td>
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<td>Students will receive an overview of food and beverage operations and management. Topics include careers, equipment layout and décor, menu planning, management development, customer service and procurement.</td>
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<td><strong>MANAGEMENT OF INSTITUTIONAL EMPLOYEES</strong></td>
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<td><strong>Prerequisite:</strong> Sophomore status</td>
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<td>A study of acquiring, maintaining, motivating and utilizing a work force under the special conditions found in hotels, restaurants and other personal service type institutions.</td>
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<td><strong>ENVIRONMENTAL MANAGEMENT</strong></td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>Examines the organization and operation of the housekeeping and engineering departments of food service facilities. The course stresses training and record keeping and provides essential technical information in electricity, heating, plumbing and other equipment. Additional significance of sanitation and personal hygiene in all food service operations will be studied. Knowledge needed to implement a sanitation program for any facility will be discussed.</td>
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<td><strong>FOOD PREPARATION I</strong></td>
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<td><strong>Prerequisite:</strong> HSM 335</td>
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<td>The course is designed to teach those with management responsibilities how quality foods are produced. Additionally, purchasing criteria and guidelines for the major groups of foods purchased by quantity buyers will be discussed. Topics including all the major food groups, cost implications, and cooking theory will be conducted by lecture format. Culinary techniques and practical production concentration will be provided at two- team member stations in a laboratory environment.</td>
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<td><strong>FOOD PREPARATION II</strong></td>
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<td></td>
<td><strong>Prerequisite:</strong> HSM 336</td>
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<td></td>
<td>A continuation of Food Preparation 1 The completion of all major food groups with relation to preparation and purchasing will be integrated in class lecture and lab. Emphasis on practical production procedures and culinary techniques via team-station laboratory performance is continued.</td>
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<td><strong>GAMING &amp; CASINO MANAGEMENT</strong></td>
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<td><strong>Prerequisite:</strong> HSM 135, MATH 208</td>
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<td>This course gives an overview of the various games and of managing odds. Emphasizes the financial, operational, marketing, legal, and ethical aspects of running gaming operations.</td>
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<td><strong>BEVERAGE MANAGEMENT</strong></td>
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<td><strong>Prerequisite:</strong> HSM 135, HSM 235</td>
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<td></td>
<td>This course looks at principles and practices regarding the production, selection, purchasing, storage, and service of beverage alcohol in the hospitality industry.</td>
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</table>
HSM 433  HOSPITALITY MARKETING  3
Prerequisite: MKT 233, HSM 135
A study of the controllable and non-controllable factors involved in marketing the food and lodging institution. Introduces the role of marketing, analyzes the consumer, and delves into the product planning, distribution planning, promotion planning and price planning roles of the hospitality manager. Hands-on class project developing an actual marketing and communication plan.

HSM 434  STRATEGIES IN THE HOSPITALITY INDUSTRY  3
Prerequisite: MGT 401, HSM 135 or HSM 250
A presentation of the many responsibilities which the law imposes upon institutional management and ownership.

HSM 435  QUANTITY FOOD PRODUCTION  3
Prerequisite: HSM 337
Practical application of management and production skills via laboratory procedures. Emphasis will be placed on the menu planning, menu costing, production scheduling, cost control and quality controls.

HSM 437  EVENT PLANNING  3
Prerequisite: HSM 135, HSM 235, HSM 335, ACCT 201
Practical application of the aspects of catering beginning with the requirements of banquet hall, mobile and off-premise catering, staffing requirements and service standards. Theme dinners will be served on a reservation basis in the Accent Room. Students will be responsible for all planning, implementation and control of these events.

HSM 480  HOSPITALITY SPECIAL TOPICS  3
Prerequisite: HSM Major
A course devoted to various topics related to issues in hospitality repeated once for different topics with approval of the chair.

INTERDISCIPLINARY STUDIES (IDS)

IDS 493  INTELLIGENCE INTERNSHIP AT ATIC  12
Prerequisite: Completion of the Intelligence Internship at ATIC Campus Approval Form
The Intelligence Internship at ATIC is a full time internship offered in residence at the Advanced Technical Intelligence Center (ATIC) in Dayton, OH. This internship is designed to provide students with the necessary tools to be successful analysts in the U.S. Intelligence Community. The Intelligence Internship at ATIC includes classroom training, research experience, experiential contact hours and, if eligible, the sponsorship of the student for a Top Secret security clearance. This 15 week internship is available during fall and spring semesters and the summer. Students will earn 12 semester hours of credit for satisfactorily completing the internship.

INFORMATION SYSTEMS (IS)

IS 221  INFORMATION TECHNOLOGY  3
Prerequisite: None
This course is an introduction to the use of computers in a business environment. It traces the evolution of data processing systems through advanced systems currently in use, including hardware, software, programming and operating systems. Other current topics including data communications, databases and computer security also will be discussed.

IS 346  E-COMMERCE  3
Prerequisite: IS 221; MKT 233 or MGT 240
This course is designed to introduce students to business, cultural, technical, and social/legal aspects of using the Web for business in a global context transcending the U.S. or any specific national boundary. Figuring prominently in the course will be examination of cultural, business and social dimensions of e-commerce, including web site design, across multiple countries. Students will work on a group project that involves the development of a business plan and the design of an e-commerce business using IS skills and knowledge you have obtained from this course and other courses taken.

IS 370  PROGRAMMING FOR BUSINESS I  3
Prerequisite: IS 221
An introduction to computer programming in the business environment. Using Visual Basic, students will design, flowchart, program, enter, test and debug, and document programs of minimal to medium degree of difficulty.

IS 371  PROGRAMMING FOR BUSINESS II  3
Prerequisite: IS 370
A continuation of IS 370. Will involve advanced programming techniques, including file handling. Complex problem-solving situations will be under-taken in order to provide the student with applications-oriented experience.

IS 372  SYSTEMS ANALYSIS AND DESIGN  3
Prerequisite: IS 221
An introduction to the concepts and methods of systems analysis and design. The course will examine the life cycle of an information system from initial business problems through system development, implementation, and maintenance. Students will follow the development of various systems through the use of select business cases.

IS 425  SPECIAL TOPICS IN INFORMATION SYSTEMS  1-3
Prerequisite: IS 372
Examines various topics related to current issues in information systems. May be repeated once for different topics with the approval of IS faculty.

IS 470  DATABASE MANAGEMENT  3
Prerequisite: None
An introduction to database management which combines theory with application. The course will present aspects of relational database theory including cardinality, normalization, and referential integrity. Students will then apply these theories to design, and implement databases using a variety of database management systems.

IS 472  DECISION SUPPORT SYSTEMS AND BUSINESS INTELLIGENCE  3
Prerequisite: IS 370 or CS 121
An examination of the role of information systems inmanagerial decision making. The course describes the decision making process and examines how various information systems are used to support this process. Specific topics covered in the course include decision support systems, business intelligence, and knowledge management.

IS 473  ADVANCED SYSTEMS DEVELOPMENT  3
Prerequisite: IS 371, IS 372, IS 470
A study of advanced systems design and development methodologies. The course will include a project requiring the student to develop and implement a computer-based information systems.

IS 475  NETWORK FUNDAMENTALS AND INFORMATION SECURITY  3
Prerequisite: IS 370 or CS 121
Overview of network technology for local area networks (LANs), wide area networks (WANs), and the internet. Focus will be placed on designing, implementing, managing, and troubleshooting a network environment. A foundation-level understanding of the various domains for certification as an information systems security professional will also be discussed.

IS 479  MANAGEMENT OF INFORMATION SYSTEMS  3
Prerequisite: IS 372
The theory and practice of planning, control and administration of the management aspects of IS installations will be analyzed in general, and information resource management in particular. This course will develop the background necessary for relating the practice of information systems support to the realities of management needs. The student will be responsible for researching and reporting on current topics in the field.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JDM 103</td>
<td>INTRODUCTION TO JOURNALISM AND MASS COMMUNICATION</td>
<td>3</td>
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<tr>
<td>JDM 133</td>
<td>VIDEO AESTHETICS I</td>
<td>3</td>
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<tr>
<td>JDM 203</td>
<td>WRITING FOR THE MEDIA</td>
<td>3</td>
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<tr>
<td>JDM 211</td>
<td>PROFESSIONAL PRACTICE: NEWS PRODUCTION</td>
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<td>JDM 212</td>
<td>PROFESSIONAL PRACTICE: RADIO PRODUCTION</td>
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<td>JDM 213</td>
<td>PROFESSIONAL PRACTICE: TELEVISION PRODUCTION</td>
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<td>JDM 214</td>
<td>PROFESSIONAL PRACTICE: SPECIAL TOPICS</td>
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<td>JDM 224</td>
<td>SPECIAL TOPICS IN DIGITAL MEDIA</td>
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<td>JDM 232</td>
<td>VIDEO AESTHETICS II</td>
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<td>JDM 234</td>
<td>STUDIO PRODUCTION</td>
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<td>JDM 237</td>
<td>BASIC AUDIO PRODUCTION</td>
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<td>JDM 243</td>
<td>SPORT BROADCASTING &amp; PRODUCTION</td>
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<td>JDM 245</td>
<td>FUNDAMENTALS OF RESEARCH AND REPORTING</td>
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<td>JDM 246</td>
<td>MULTIMEDIA REPORTING</td>
<td>3</td>
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<td>JDM 303</td>
<td>MEDIA LAW AND ETHICS</td>
<td>3</td>
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<tr>
<td>JDM 307</td>
<td>ADVANCED REPORTING AND EDITING</td>
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**JOURNALISM AND DIGITAL MEDIA (JDM)**

**JDM 103 INTRODUCTION TO JOURNALISM AND MASS COMMUNICATION**

*Prerequisite: None*

An introductory, yet critical examination of the history of journalism and the media and how mass media continues to influence society. Attention given to advances in technology and how they have changed journalism, the development and role of mediated communication and competition between traditional and emerging media.

**JDM 133 VIDEO AESTHETICS I**

*Prerequisite: None*

This course is an introduction and exploration of basic visual storytelling techniques using digital content creation tools such as video cameras and computer editing software. Students will learn the principles of visual aesthetics through the use of single-camera shooting technique. The focus will be on the creation and interpretation of meaning through the use of framing, shot composition, lighting, and editing.

**JDM 203 WRITING FOR THE MEDIA**

*Prerequisite: None*

This course stresses with development of practical skills in news writing for mass media in print, broadcast, and web formats. Emphasis is placed on news values and judgment, effective leads and organization, writing clarity, and style. Class assignments will involve writing projects on a variety of news topics.

**JDM 211 PROFESSIONAL PRACTICE: NEWS PRODUCTION**

*Prerequisite: Major or minor with the Department of Journalism and Digital Media*

Students in this course will get practical, hands-on experience working within the JDM facilities producing news and sports content for AUTV-20, The Collegian, and WRDL-FM. Students will focus on creating multi-media news and sports stories that will air during shows on AUTV-20 and WRDL-FM, and also be published in the paper and online for The Collegian. Students will also work with other students in JDM 212 and 213 to coordinate news and sports coverage. This one credit course is repeatable and is for JDM majors and minors only. Digital Media Journalism majors and minors are required to take at least four credits of this course. Course is graded S/U.

**JDM 212 PROFESSIONAL PRACTICE: RADIO PRODUCTION**

*Prerequisite: Major or minor with the Department of Journalism and Digital Media*

Students in this course will get practical, hands-on experience working within the JDM facilities producing media content for WRDL-FM. Students will work within all facets of radio production, including working as DJs, board operations for sporting events and shows, remotes, audio production, and working with JDM 211 students to coordinate content for various shows. This one credit course is repeatable and is for JDM majors and minors only. Digital Media Production majors and minors are required to take at least two credits of this course. Course is graded S/U.

**JDM 213 PROFESSIONAL PRACTICE: TELEVISION PRODUCTION**

*Prerequisite: Major or minor with the Department of Journalism and Digital Media*

Students in this course will get practical, hands-on experience working within the JDM facilities producing media content for AUTV-20. Students will work within all facets of television production, including working as crew for remote and studio productions, creating graphics, shooting and editing video, and working with JDM 211 students to coordinate content for various shows. This one credit course is repeatable and is for JDM majors and minors only. Digital Media Production majors and minors are required to take at least two credits of this course. Course is graded S/U.

**JDM 214 PROFESSIONAL PRACTICE: SPECIAL TOPICS**

*Prerequisite: Major or minor with the Department of Journalism and Digital Media*

Students in this course will get practical, hands-on experience producing media content for various purposes that are not part of the existing Journalism and Digital Media curriculum or professional practice offerings. This course is offered once a year and specific topic varies. This one credit course is repeatable and is for JDM majors and minors only. Course is graded S/U.

**JDM 224 SPECIAL TOPICS IN DIGITAL MEDIA**

*Prerequisite: JDM 103*

This course covers various topics and content related to today's media industry that are not a part of the Journalism and Digital Media curriculum. Topics reflect new techniques, areas, and issues facing the media currently. May be repeated for credit as topics change.

**JDM 232 VIDEO AESTHETICS II**

*Prerequisite: JDM 133*

In this course, students will build on the skills learned in JDM 133 to create more advanced video shooting and editing projects. The focus will be on the aesthetics and creative techniques associated with lighting, audio, and shooting video in the field. Additionally, students will learn the appropriate use of advanced editing techniques (effects, transitions, graphics, and color correction) to create meaning within a piece.

**JDM 234 STUDIO PRODUCTION**

*Prerequisite: JDM 133*

Course covers the practices, procedures, and techniques associated with the production of studio television programs.

**JDM 237 BASIC AUDIO PRODUCTION**

*Prerequisite: JDM 133*

Covers the basic theories of field and studio audio production. Students will become familiar with the use of field and studio audio equipment and will learn the basics of audio pre- and post-production techniques.

**JDM 243 SPORT BROADCASTING & PRODUCTION**

*Prerequisite: JDM 133*

The course examines the history of multi-camera sports production techniques, the technology used and coverage formulas utilized by the broadcast and cable networks producing sporting events today.

**JDM 245 FUNDAMENTALS OF RESEARCH AND REPORTING**

*Prerequisite: JDM 103, JDM 203*

A course designed to instruct students in the fundamentals of news-gathering. Emphasis will be on interviewing techniques, computer-assisted research, public records laws, and how to glean important information from historical archives. The course will also focus on information literacy and the importance of sound news judgment.

**JDM 246 MULTIMEDIA REPORTING**

*Prerequisite: JDM 103, JDM 203*

This course is designed to teach students the fundamentals of creating news and information content for the web. The focus will be on writing techniques, information gathering and relevant software. Skills learned in this course will serve as the basis for longer-form web content created in JDM 307 and 336.

**JDM 303 MEDIA LAW AND ETHICS**

*Prerequisite: None*

An examination of the roles of the law and ethics in determining appropriate conduct in the fields of journalism, media production, and other areas of public communication. A fundamental understanding of first amendment principles and legal philosophy affecting freedom of expression in the media industries will be stressed.

**JDM 307 ADVANCED REPORTING AND EDITING**

*Prerequisite: JDM 245, JDM 246 or Permission*

A course designed to instruct students in comprehensive news-gathering skills and new disseminating skills. Emphasis on investigation journalism that is assisted by gathering material derived from interviews, observation, public records, and other documents, and on using such research material to construct effective, in-depth news articles. The class will also analyze selected examples of hard news reporting from contemporary journalistic practice. Class assignments will involve extensive field research, in-depth written news stories and multi-media productions for the web.
JDM 311 SCRIPT WRITING AND DIRECTING 3
Prerequisite: JDM 234
An examination and practice in the two most basic functions in media production; directing and scriptwriting. Working collaboratively, students will execute a series of scriptwriting and direction projects of various format and lengths.

JDM 320 FEATURE WRITING 3
Prerequisite: JDM 245
A course stressing the development of effective techniques for researching and writing various forms of feature writing, including advances, entertainment reviews, columns, human interest and trend stories. The class will also analyze selected examples of feature writing from contemporary journalistic practice. Class assignments will involve a series of practical writing projects.

JDM 330 ORGANIZATION AND CORPORATE VIDEO 3
Prerequisite: JDM 232
This course covers the practices and procedures associated with producing video for organizations and corporations. Pre- and post-production, as well as field and studio production work are all addressed in a corporate training video setting. Working with clients is also a key component to the course.

JDM 331 DIGITAL MEDIA MANAGEMENT 3
Prerequisite: JDM 103
A course exploring management theories and practices as they apply to radio and television broadcast stations, cable outlets and other electronic media facilities. Course topics include station management, programming, and formats, sales, marketing and research, promotion, engineering, consultants and syndication.

JDM 332 RADIO PRODUCTION AND PROGRAMMING 3
Prerequisite: JDM 237
Instruction in production technique with special emphasis on producing a full scale radio program. This course examines the role of the production director, state-of-the-art gear and how radio formats impact production mix down.

JDM 333 DIGITAL MEDIA TECHNOLOGIES 3
Prerequisite: JDM 232
This course explores more advanced and specialized video content using software-based tools. Students will go beyond basic shooting and editing and use the latest software tools to create broadcast-ready content including show opens, film trailers, graphics, and stop frame animation projects.

JDM 335 BROADCAST ANNOUNCING 3
Prerequisite: JDM 133
This is a course designed to improve presentation skills in the area of radio and television announcing. Students will learn proper techniques and voicing skills associated with announcing various types of radio and TV copy, including commercials, news, and sports. Assignments are written and performance based.

JDM 336 BROADCAST REPORTING AND WRITING 3
Prerequisite: JDM 245, JDM 246
Building off the foundation built in JDM 245 and 246, students will focus on the process of gathering, writing and presenting news for broadcast. Students will gather and edit video and audio, as well as prepare web versions of their stories. Student work will air on WRDL and AUTV-20 and be posted on The Collegian website.

JDM 337 ADVANCED AUDIO PRODUCTION 3
Prerequisite: JDM 2437
Building from the skills learned in JDM 237, this course covers more advanced practices, procedures and techniques of audio field and studio production and post-production with emphasis on the design and construction of professional quality audio production involving complex mixture of audio techniques. Advanced non-linear soft ware-based sound editing is also introduced.

JDM 342 SPORTS JOURNALISM 3
Prerequisite: JDM 245, JDM 246
This course is designed to instruct students in comprehensive news gathering and disseminating skills within the specific context of sports. Emphasis will be placed on the practices of sports reporting including game stories, interviews, features, the gathering and use of sports statistics, and the use of social media in sports journalism. Students will cover Ashland University sporting events and produce written pieces for use in The Collegian, and multi-media pieces for use on AshlandCollegian.com, WRDL-FM, and AU-TV20.

JDM 403 MASS MEDIA EFFECTS 3
Prerequisite: Junior status
This course is an intensive study of the effects of different forms of mass media on the audiences who consume media content. Students will explore the different theories and research in this field in order to gain a better understanding of the social and cultural impact of media systems.

JDM 405 THE GLOBAL IMPACT OF SOCIAL MEDIA 3
Prerequisite: Senior status
This course will study the evolution of social media and how it has changed the way society communicates and consumes information and content on a global scale. The course will focus on the application of relevant media theories in order to better understand how social media has shaped us as individuals and restructured interpersonal and mass communication on a societal level.

JDM 407 NARRATIVE JOURNALISM 3
Prerequisite: JDM 307 or JDM 336
A course designed to instruct students in the development of long form narrative journalism and the study of contemporary journalism. Class assignments will involve extensive field research and the writing of in-depth, nuanced narrative stories with multimedia components accompanying.

JDM 412 ADVANCED POST PRODUCTION AND EDITING 3
Prerequisite: JDM 333
This course covers the advanced techniques of non-linear video editing and special effect creation. It includes the creation and use of computer-generated graphics and digital video effects during the editing process. Students will produce video and web content. This course builds on skills learned in JDM 133, 232, 333.

JDM 436 INTERNSHIP IN DIGITAL MEDIA 3
Prerequisite: Junior status
A - Digital Media Journalism. B- Digital Media Production

JDM 437 MULTIPLATFORM AUDIO PRODUCTION 3
Prerequisite: JDM 337
This course is designed to develop an understanding of the relationship of audio production or podcasting to various related media including multimedia and broadcast. Sound design and the creation and recording of audio assets are stressed as the student develops the conceptual and practical know-how to operate as a creative producer of digital media.

LATIN (LTN)

LTN 110 ELEMENTARY LATIN I 3
Prerequisite: None
An introduction to Latin grammar, vocabulary, and syntax; and through the study of the language, the culture of ancient Rome. Meets Core credit for CCI.

LTN 210 ELEMENTARY LATIN II 3
Prerequisite: LTN 110
A continuation of LTN 110. By the end of Latin 210, students will be beginning to read ancient Latin texts. Meets Core credit for CCI.
This course reviews and confirms knowledge of grammar, syntax, and vocabulary while also introducing students to Latin authors such as Horace, Cicero, Catullus, or Vergil, through which students will deepen their knowledge of the life, culture, and politics of ancient Rome.

**MATHEMATICS (MATH)**

**MATH 100 DEVELOPMENTAL MATHEMATICS** 3
Prerequisite: None
Designed to prepare students for courses having a prerequisite of one year of high school algebra. Students are placed in the course by ACT/SAT scores and high school records. This course is not open to a student with grade C or higher in any of the courses below. May not be applied to any mathematics/science requirement for graduation. Course will be graded A.I.C (with pluses or minuses) or U. If a U is earned, course must be repeated.

**MATH 110 FINITE MATHEMATICS** 3
Prerequisite: Two years of high school algebra
Covers some topics of modern mathematics including principles of counting, probability, matrices, linear programming, and mathematics of finance with applications to biology, business, economics, and other social sciences. Meets Core credit for math/logic.

**MATH 201-202 CALCULUS WITH APPLICATIONS TO MANAGEMENT, LIFE, AND SOCIAL SCIENCE I-II** 3-3
Prerequisite: Two years of high school algebra; one year of high school geometry; MATH 201 is a prerequisite for MATH 202
Functions, limits, techniques of differentiation and integration, with applications in the natural, social and management sciences. Does not count toward a major in mathematics. 201 meets Core credit for math/logic.

**MATH 205 THE CALCULUS I** 5
Prerequisite: MATH 111 or equivalent
This is the first course in the Calculus sequence for science and math majors. The focus is on theory and techniques for limits, derivatives, antiderivatives and definite integrals, and their applications. Meets Core credit for math/logic.

**MATH 206 THE CALCULUS II** 5
Prerequisite: MATH 205
This is the second course in the Calculus sequence for science and math majors. The focus is on transcendental functions and their applications, techniques of integration, indeterminate forms and improper integrals, and an introduction to infinite sequences and series.

**MATH 208 ELEMENTARY STATISTICS** 3
Prerequisite: MATH ACT score of 18 or above or math SAT score of 480 or above, or MATH 100
An introductory course designed to meet the needs of students in biology, business, economics, education, nursing, psychology, and sociology. Sample and theoretical frequency distributions, data dispersion and central tendency, estimation, hypothesis testing, correlation, and analysis of variance are topics studied. Meets Core credit for math/logic.

**MATH 217 THEORY OF ARITHMETIC AND GEOMETRY** 3
Prerequisite: MATH ACT score of 18 or above or math SAT score of 480 or above, or MATH 100
A study of the mathematical theories and concepts underlying intermediate arithmetic and geometry. Topics include number theory, number systems, elementary probability, geometry, estimation, mathematical reasoning, problem solving, and communication. The course will emphasize the use of group work and manipulatives. Meets Core credit for math/logic.

**MATH 218 GEOMETRY FOR MIDDLE GRADES TEACHERS** 3
Prerequisite: MATH 217
A study of mathematical concepts and procedures for teaching in the middle schools. Topics include knowledge of the NCTM Standards, 3-dimensional geometry, axiomatic systems, experimental probability, algebra, algorithmic techniques, and technology. Emphasis on group work and manipulatives.

**MATH 223 DISCRETE MATHEMATICS I** 3
Prerequisite: Three years high school college prep math, MATH 223 is a prerequisite for MATH 224
An introduction to set theory, logic, relations, functions, sequences, algorithms, number theory, and combinatorics. Meets Core credit for math/logic.

**MATH 224 DISCRETE MATHEMATICS II** 3
Prerequisite: Three years high school college prep math, MATH 223 is a prerequisite for MATH 224
A continuation of Math 223. A further exploration of foundational discrete structures and their applications to computer science. Topics include recurrence relations, graph theory, tree structures, and network models.

**MATH 250 MATHEMATICAL PROOF** 1
Prerequisite: MATH 223
An introduction to the elements of mathematical proofs. Various forms and techniques of writing mathematical proofs are covered.

**MATH 305 THE CALCULUS III** 4
Prerequisite: MATH 206
A study of infinite series, power series, solid analytical geometry, and multivariate calculus.

**MATH 307 LINEAR ALGEBRA** 3
Prerequisite: MATH 202, MATH 206 or MATH 224
A study of vector spaces, linear transformations, determinants, and matrices.

**MATH 308 OPERATIONS RESEARCH** 3
Prerequisite: MATH 224
An introduction to the theory and computer assisted solution of problems in operations research, such as Markov chains, replacement models, inventory models, queuing theory, linear programming, and transportation models.

**MATH 309 HISTORY OF MATHEMATICS** 3
Prerequisite: MATH 223, MATH 202, or MAATH 206
A survey of the historical development of mathematics through the calculus, together with problems appropriate to the topics and period being studied.

**MATH 311 MODERN GEOMETRY** 3
Prerequisite: MATH 206, MATH 223, MATH 250
A study of fundamental geometric properties such as straightness, symmetry, congruency, and parallelism as they exist in planes and other surfaces.

**MATH 313 ELEMENTARY DIFFERENTIAL EQUATIONS** 3
Prerequisite: MATH 305
An introductory course in elementary differential equations with applications to geometry, chemistry, physics, and the life and social sciences. Some topics include exactness, Bernoulli’s equations, differential operators, and Laplace transform.
**MATH 317** PROBABILITY 3  
**Prerequisite:** MATH 223, MATH 250, MATH 202 or MATH 206  
A study of the fundamental concepts of probability theory, discrete and continuous probability functions, independence, conditional probability, Bayes' theorem, joint densities, and mathematical expectations.

**MATH 318** MATHEMATICS OF STATISTICS 3  
**Prerequisite:** MATH 250, MATH 305, and MATH 317  
Introduction to the theory and applications of mathematical statistics, moment generating functions, central limit theorem, estimation, and hypothesis testing.

**MATH 319** NUMBER THEORY 3  
**Prerequisite:** MATH 206, MATH 223, and MATH 250; CS 121 recommended  
An introductory course in the fundamentals of number theory. Emphasis on proof techniques, Euclidean algorithm, primes, congruencies, continued fractions, and Euler Phi function, with applications to computer science, cryptography, and mathematics education.

**MATH 320** FINANCIAL MATHEMATICS 3  
**Prerequisite:** MATH 223, MATH 305  
Introduction to the fundamental concepts of financial mathematics, and how these concepts are applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, asset/liability management, investment income, capital budgeting, and valuing contingent cash flows. The course content is based on the syllabus for the Society of Actuaries (SOA) professional Exam FM - Financial Mathematics.

**MATH 341** APPLIED REGRESSION ANALYSIS 3  
**Prerequisite:** MATH 208 or MATH 318  
The student will learn to execute three major steps in the data analysis process: to identify the appropriate statistical technique for a given research problem; to conduct analyses (one-sample, dependent-samples, and independent-samples t-tests, one-way ANOVA, two-way ANOVA, simple regression and correlation, multiple regression, chi-square tests, discriminant analysis, factor analysis, and multivariate analyses) using statistical software (such as SPSS or R); and to interpret the statistical values generated by these various analytical tools.

**MATH 415** INTRODUCTION TO MODERN ALGEBRA 3  
**Prerequisite:** MATH 223, MATH 250, AND MATH 307  
An introduction to abstract algebraic systems through the study of groups, rings, and fields.

**MATH 417** INTRODUCTION TO ANALYSIS 3  
**Prerequisite:** MATH 250 and MATH 305  
The real number system, indeterminate forms, partial differentiation, infinite series, and multiple and improper integrals are treated more rigorously than in the elementary calculus course.

**MATH 450** SEMINAR 1  
**Prerequisite:** Junior or Senior math minors or majors  
Various topics in mathematics will be investigated. Content will vary depending upon the interests and needs of the students. Students, invited speakers, and faculty will present topics. May be repeated for a total of 4 hours.

**MATH 470** SPECIAL TOPICS IN MATHEMATICS 1-3  
**Prerequisite:** MATH 305 or MATH 307  
A course devoted to various topics of mathematical interest. May be repeated for credit as topics change.

**MANAGEMENT (MGT)**

**MGT 100** CONTEMPORARY BUSINESS 3  
**Prerequisite:** None  
The purpose of this course is to introduce the student to the organization and operation of the basic product- and service-producing institutions in our society-business firms-and the economic environment in which these businesses make decisions.

**MGT 240** INTRODUCTION TO MANAGEMENT 3  
**Prerequisite:** None  
A survey course which aims to familiarize students with accepted management theory as well as contemporary thinking that might challenge the assumption forming the foundation of traditional management practices. Students will learn the management functions of planning, organizing, leading and controlling in the context of a changing global environment and explore ethical issues facing managers working with today’s diverse workforce.

**MGT 307** ORGANIZATIONAL THEORY & DESIGN 3  
**Prerequisite:** MGT 240  
An advanced macro approach to business organizational studies with a comprehensive survey and analysis of contemporary findings interpreted with current theory and its application to all phases of business management, personnel, production and/or service, material and control.

**MGT 318** ORGANIZATIONAL BEHAVIOR 3  
**Prerequisite:** MGT 240  
A human relations approach to personnel selection and development, human engineering and motivation, supervision and work efficiency, individual and group behavior in business organizations, evaluation and testing, organizational development and control.

**MGT 319** OPERATIONS MANAGEMENT 3  
**Prerequisite:** MGT 240 and MATH 208  
This is an introduction to the operations function. A study of modern theory and practice relating to the operations function in both manufacturing and service organizations. Quantitative management tools will be surveyed.

**MGT 323** BUSINESS COMMUNICATION 3  
**Prerequisite:** ENG 102  
Upon completion of the course, the student will be able to communicate effectively in the business world. This will be demonstrated by actual business situations involving sales, goodwill, routine requests, unpleasant news, credit and collections, resumes and cover letters, follow-up letters and interviewing techniques. For sophomores and juniors.

**MGT 324** HUMAN RESOURCE MANAGEMENT 3  
**Prerequisite:** MGT 307, MGT 318  
The basic function of management as applied to personnel problems of a business organization. Consideration given to special problems of employment, health, safety, labor relations and morale, employee education and training, wages and salaries.

**MGT 325** INTERPERSONAL COMMUNICATION FOR BUSINESS 3  
**Prerequisite:** MGT 318 and MGT 323  
Students will investigate and practice a variety of communication techniques in face-to-face situations as they arise in the relationship between supervisors and their subordinates. Orientation will be toward communication objectives and methods needed to effectively manage a productive enterprise or project.

**MGT 327** RISK AND INSURANCE 3  
**Prerequisite:** ECON 232, ECON 233, MATH 208  
Economic theory of risk, its significance and treatment; theory and practice of property, liability, life and health insurance.

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MGT 340 MANAGEMENT SCIENCE 3  
Prerequisite: IS 221, MATH 208  
A survey of techniques of management science, an approach to managerial decision making that involves the use of quantitative tools of analysis. Topics covered will include linear programming, queuing models, simulation, decision analysis, and networking models for project management.

MGT 343 SOCIAL RESPONSIBILITY AND BUSINESS ETHICS 3  
Prerequisite: MGT 240  
A study of the moral, ethical and social roles of enterprise. Working from a historical perspective, the changing patterns of values and normative models of behavior tolerated, expected or required by society will be explored. Contributions from other disciplines will be utilized.

MGT 401 BUSINESS LAW I 3  
Prerequisite: Junior status  
Introduces the business student to the legal principles involved with contract law, real property, personal property, bailment law and agency law.

MGT 402 BUSINESS LAW II 3  
Prerequisite: MGT 401  
An in-depth examination of particular legal principles including, but not limited to, the Uniform Commercial Code, labor and other employment law, consumer protection, product liability law and administrative agency law.

MGT 423 COMPENSATION AND BENEFITS 3  
Prerequisite: MGT 324  
This course is an introduction to the use, design, and effectiveness of strategic compensation and reward programs within an organization. A systematic approach will be utilized in investigating organizational and employee behavior, practices, and legal constraints in designing/implementing compensation and benefit programs.

MGT 424 TRAINING & DEVELOPMENT 3  
Prerequisite: MGT 324  
This course is an introduction to training and development in organizations. Students will have the opportunity to analyze, assess, design, plan, and evaluate training programs. The course will examine the process in assembling and delivering a training program. This includes assessment of training needs and the evaluation of training programs within the context of organization and global markets.

MGT 425 EMPLOYMENT LAW & LABOR RELATIONS 3  
Prerequisite: MGT 324  
A comprehensive course designed to investigate employment law, employee and labor relations and their resulting impacts in organizations. It introduces employment law examining the application of statutes and case law. This course studies the evolution of U.S. employment laws, labor unions, bargaining techniques, contract administration, with emerging issues in the U.S. and globally.

MGT 450 SPECIAL TOPICS FOR MANAGEMENT 1-3  
Prerequisite: Senior status  
A course devoted to various topics of current management issues. May be repeated once for different topics with approval of management faculty.

MGT 480 GLOBAL MANAGAMENT 3  
Prerequisite: MGT 240, Senior status  
The course deals with the strategic management of multinational/transnational corporations, focusing on the international environment, competitive strategy formulation, implementation and control along with MNC organization design and structure. Figuring prominently in the course will be comparative management issues related to managing in different international settings, particularly issues that relate to increasing firm competitiveness in the global context.

MGT 489 SENIOR SEMINAR-BUSINESS CAPSTONE 3  
Prerequisite: COBE major and senior status  
This interdisciplinary course integrates content from a variety of disciplines, including business and economics. Students will examine multiple objectives, synthesize concepts, identify problems, analyze and evaluate alternate solutions, and put knowledge into practice.

MGT 499 SENIOR ASSESSMENT 3  
Prerequisite: COBE major and senior status  
The student earning a business degree is required to demonstrate competence in the areas of specialized business knowledge, managerial thinking, and verbal and written communication skills. In this course, the student will create an electronic portfolio to demonstrate levels of competence in these three major categories. In addition, the student may include documentation of competencies and accomplishments specifically related to their majors and/or minors.

MARKETING (MKT)

MKT 233 PRINCIPLES OF MARKETING 3  
Prerequisite: None  
This course outlines the essential concepts, principles and terminology required to understand basic marketing. Materials will deal with the areas of promotion, distribution, product development, the general marketing environment and information sources for marketing decisions.

MKT 310 INTERNATIONAL BUSINESS/CULTURE 3  
Prerequisite: None  
Treats the interrelationship of the cultures of other nations with that of the U.S. within a business setting. The first half of the course focuses on cross-cultural relations, using role- playing and cross-cultural awareness games. The second half focuses on the impact of culture on international and multi-national business, including such subjects as bribery, morality, and people-relations.

MKT 311 MARKET ANALYSIS AND RESEARCH 3  
Prerequisite: IS 221, MKT 233, and MATH 208  
Students will be exposed to the research process with a focus on the analysis of the data provided through this process. Topics covered will include investigation into market stratification, validation of data and statistical analysis and significance of data.

MKT 313 SALESMANSHIP 3  
Prerequisite: MKT 233  
Techniques of effective selling, the psychological marketing and economic elements of the salesman's job. Designed for students in all fields, as well as for those majoring in marketing and commercial education.

MKT 314 ADVERTISING PRINCIPLES 3  
Prerequisite: MKT 233  
A course in the general principles of advertising and sales promotion as applied to the sale of goods and services. A study of advertising agencies, advertising departments, copy, layouts, illustration and media and advertising research.

MKT 315 RETAIL MERCHANDISING 3  
Prerequisite: MKT 233  
A study of the operation and management of retail establishments, including detailed consideration of problems in store policies, organizations, location, services, buying, sales systems and records.

MKT 317 INTERNATIONAL MARKETING 3  
Prerequisite: MKT 233  
The integration of the basic elements of marketing into the international marketing system. The application of marketing strategies into the global market, creating an international business entity and arranging all elements of the business to compete globally.
Students will study, practice, and perform woodwind chamber music.

MUSIC 013 PECCUSSION ENSEMBLE .5
Prerequisite: Audition
Students will study, practice, and perform percussion ensemble music.

MUSIC 014 JAZZ ENSEMBLE 1
Prerequisite: Audition
Students will sight read, rehearse and perform jazz music in the big band idiom at their highest potential. In addition to campus performances, there will be concerts and tours off campus.

MUSIC 015 JAZZ COMBO .5
Prerequisite: Audition
Students will study, practice, and perform jazz music with emphasis on improvisation.

MUSIC 016 WIND ENSEMBLE .5
Prerequisite: Audition
Wind ensemble meets in the fall semester only. Membership is open to students of all majors and is made up of outstanding wind and percussion players from the University and community. It offers the advanced player the opportunity to study and perform serious literature written or transcribed for this medium. For music majors, it also provides the opportunity to observe rehearsal techniques, broaden their knowledge of literature and to reinforce and synthesize other aspects of their musical study. The size of the ensemble is flexible depending upon the literature chosen.

MUSIC 020 WOMEN'S CHOIR .5
Prerequisite: Audition
Promotes healthy vocalization, musical literacy and artistic development through choral music for treble voices.

MUSIC 022 UNIVERSITY CHOIR 1
Prerequisite: Audition
Allows students to rehearse, learn, and perform music suitable for the choral medium to a high degree of artistic excellence. Major ensemble.

MUSIC 030 CHAMBER SINGERS .5
Prerequisite: Audition
Allows students to rehearse, learn, and perform music suitable for vocal chamber ensembles to a high degree of artistic excellence. In the fall semester, the focus is usually on a traditional Renaissance Madrigal Feast.

MUSIC 031 OPERA WORKSHOP .5
Prerequisite: Audition
Students will rehearse, learn, and perform operatic literature resulting in a staged and costumed production at the end of the semester.

MUSIC 040 ORCHESTRA .5
Prerequisite: Audition
Students study, practice, and perform symphonic music. Participation is by invitation of the Personnel Manager of the Ashland Symphony Orchestra. Graded S/U.

MUSIC 050 SPECIAL ENSEMBLE .5
Prerequisite: Audition
The preparation and performance of music composed for a particular combination of resources not covered by other ensembles.
**MUSIC 051  ASHLAND AREA COMMUNITY  5**  
**CONCERT BAND**  
*Prerequisite: None*  
This band is intended for both university students and members of the Ashland community to continue their musical study, creative activity and aesthetic enrichment. It meets one evening per week in both fall and spring semesters. The band performs once in the fall semester and several times in the spring. It performs a wide variety of literature from Broadway selections and classic marches to masterworks transcribed or written for concert band. The ability to play a wind or percussion instrument is a prerequisite. No audition is required.

**MUSIC 052  ASHLAND AREA CHOIRUS  5**  
*Prerequisite: None*  
A mixed choir that allows students to rehearse, learn, and perform choral music to a high degree of artistic excellence. Previous choral singing is helpful, though not required. This chorus sings regularly with the Ashland Symphony Orchestra. No Audition is required.

**MUSIC 102  RECITAL ATTENDANCE  0**  
*Prerequisite: None*  
A course in which music majors document their attendance at music performances both on and off campus.

**MUSIC 130  BASIC GUITAR MUSICIANSHIP  3**  
*Prerequisite: None*  
An introduction to musical skills and concepts taught primarily through study of the guitar. Topics include music reading and notation, performance skills, and listening. Meets Core credit for aesthetics.

**MUSIC 150  PRINCIPLES OF MUSIC MAKING  3**  
*Prerequisite: None*  
An introduction to musical skills and concepts including notation, piano, treble recorder, and singing. Meets Core credit for aesthetics.

**MUSIC 204  GENERAL MUSIC METHODS I  3**  
*Prerequisite: MUSIC 259, EDFN 130, music education major*  
Curriculum, methodology, materials, and practice in music appropriate for K-8, including observations, experiences, and lectures pertaining to actual classroom procedure. Limited work in pre-K (ages 3-4) will be included. For music education majors only.

**MUSIC 205  MUSIC COMPOSITION I  2**  
*Prerequisite: MUSIC 260*  
Introduction to music composition including modal counterpoint, writing for strings, writing for voices, and 20th century style.

**MUSIC 209  BRASS TECHNIQUES  1**  
*Prerequisite: Music major*  
Playing skills and pedagogical principles and techniques of common brass instruments.

**MUSIC 211  CLASS PIANO I  1**  
*Prerequisite: Diagnostic exam*  
This course is designed primarily to serve music majors and minors. Content includes basic piano technique, beginning repertoire, harmonization of melodies, major scales and arpeggios, and building of overall musicality.

**MUSIC 212  CLASS PIANO II  1**  
*Prerequisite: MUSIC 211 or diagnostic exam*  
This course is designed primarily to serve music majors and minors. Content includes intermediate piano technique, advanced beginning level repertoire, harmonization of melodies, minor scales and arpeggios, and continued building of overall musicality.

**MUSIC 213  STRING TECHNIQUES  1**  
*Prerequisite: Music major*  
Playing skills and pedagogical principles and techniques of orchestral string instruments.

**MUSIC 216  VOCAL DICTION I  1**  
*Prerequisite: MUSIC 340*  
A study of English and foreign language diction for singers encompassing the fundamentals of the International Phonetic Alphabet and its direct application to repertoire.

**MUSIC 217  VOCAL DICTION II  2**  
*Prerequisite: MUSIC 216 and music major*  
A continuation of 216, with emphasis on French and German.

**MUSIC 218  WOODWIND TECHNIQUES  1**  
*Prerequisite: Music major*  
Playing skills and pedagogical principles and techniques of common woodwind instruments.

**MUSIC 220  PERCUSSION TECHNIQUES  1**  
*Prerequisite: Music major*  
Playing skills and pedagogical principles and techniques of common percussion instruments and accessories.

**MUSIC 225  MUSICAL STYLE  3**  
*Prerequisite: None*  
This course will examine the fundamental question of what distinguishes different styles of music. The emphasis will be on music from the Western Art Tradition, although some popular or non-Western styles may be discussed as well. Meets Core credit for Aesthetics.

**MUSIC 226  MUSIC IN WORLD CULTURES  3**  
*Prerequisite: None*  
There is no culture in the world that does not have music. Music can therefore help foster cross-cultural connections. In this course, we journey around the world, exploring the music of various non-Western and folk cultures. We explore the sound of this music, the setting in which it takes place, and the significance it holds for each culture. In the process, we not only broaden our enjoyment and understanding of a wide variety of music, but also deepen cross-cultural understanding through our shared use of music. Meets core credit for Aesthetics.

**MUSIC 227  AURAL SKILLS I  1**  
*Prerequisite: Music major or minor*  
Beginning training in aural skills for musicians, including sight singing, prepared singing, dictation, and aural identification of musical items.

**MUSIC 228  AURAL SKILLS II  1**  
*Prerequisite: MUSIC 227*  
Continued training in aural skills for musicians, including sight singing, prepared singing, dictation, and aural identification of musical items.

**MUSIC 237  FUNDAMENTALS OF CONDUCTING  2**  
*Prerequisite: MUSIC 259 and MUSIC 260*  
An introduction to basic baton technique, terminology, score reading, and communication.

**MUSIC 250  TOPICS IN MUSIC APPRECIATION  3**  
*Prerequisite: None*  
An introductory course for non-music majors dealing with various single topics in music appreciation. For the specific topic offered, consult the course schedule. Topics may include Jazz, World Musics, American Musical Theatre, Understanding Opera, American Music, or 20th Century Music. Meets core credit for Aesthetics.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 251</td>
<td>TOPICS IN MUSIC APPRECIATION: LOVE SONGS</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: None</td>
<td>Musicians from a wide variety of time periods and styles have composed songs about love. This course will explore selected love songs from Western culture, from medieval troubadour ballads to current show and pop tunes. Emphasis will be on understanding how artists have used music to express texts about love and how musical expressions of love have changed over time. Meets Core credit for aesthetics.</td>
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<tr>
<td>MUSIC 252</td>
<td>TOPICS IN MUSIC APPRECIATION: MUSIC AND DRAMA ACROSS CULTURES</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: None</td>
<td>Whether you attend a puppet show, a movie, or an opera, and whether you live in New York or New Delhi, you rarely find drama separated from music. What does music add to drama? Why have so many cultures found it effective? Which uses of music in drama are universal? Local? This course examines the interaction of music and drama in a variety of cultural traditions, from ancient Chinese opera to the latest Hollywood blockbuster. Meets Core credit for aesthetics.</td>
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<tr>
<td>MUSIC 305</td>
<td>MUSIC COMPOSITION II</td>
<td>2</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 205</td>
<td>Study of music composition including tonal counterpoint, writing for woodwinds, writing for chamber ensembles, and 20th century style.</td>
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<tr>
<td>MUSIC 259</td>
<td>MUSIC THEORY I</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: Diagnostic Exam</td>
<td>Introductory materials in music theory, focusing on music fundamentals.</td>
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<tr>
<td>MUSIC 260</td>
<td>MUSIC THEORY II</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 259</td>
<td>A continued study of materials in music theory, including part-writing of diatonic and chromatic music.</td>
<td></td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>CLASS PIANO III</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 212 or diagnostic exam</td>
<td>This course is designed primarily to serve music majors and minors. Content includes intermediate piano technique, intermediate level repertoire, harmonization and transposition of melodies, scales and arpeggios, and continued building of overall musicality.</td>
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</tr>
<tr>
<td>MUSIC 312</td>
<td>CLASS PIANO IV</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 311 or diagnostic exam</td>
<td>This course is designed primarily to serve music majors and minors. Content includes intermediate piano technique, more difficult intermediate level repertoire, harmonization and transposition of melodies, scales and arpeggios, advanced classroom keyboard skills, and continued building of overall musicality.</td>
<td></td>
</tr>
<tr>
<td>MUSIC 320</td>
<td>MUSIC HISTORY SURVEY</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 150 or MUSIC 259 or MUSIC 260</td>
<td>This course surveys the history of Western Classical music. Students will become familiar with the major composers, historical periods, genres, and stylistics trends of Western classical music history.</td>
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<tr>
<td>MUSIC 327</td>
<td>AURAL SKILLS III</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 228</td>
<td>Continued training in aural skills for musicians, including sight singing, prepared singing, dictation, and aural identification of musical items.</td>
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<tr>
<td>MUSIC 328</td>
<td>AURAL SKILLS IV</td>
<td>1</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 227</td>
<td>Continued training in aural skills for musicians, including sight singing, prepared singing, dictation, and aural identification of musical items.</td>
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<tr>
<td>MUSIC 359</td>
<td>MUSIC THEORY III</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 260</td>
<td>A continued study of materials in music theory, including part-writing of diatonic and chromatic music and analysis of form.</td>
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<tr>
<td>MUSIC 360</td>
<td>MUSIC THEORY IV</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 359</td>
<td>A continued study of materials in music theory, including chromaticism, analysis of form, and the analysis of 20th century music.</td>
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<tr>
<td>MUSIC 380</td>
<td>MUSIC HISTORY SEMINAR I</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 150 or MUSIC 259 or MUSIC 260</td>
<td>This is a seminar that explores Western classical music. A variety of topics, spread across the history of Western classical music, will be chosen to explore. Students will gain an in-depth understanding of several representative periods, styles, genres, and composers of Western classical music and be able to understand and place them within their historical context.</td>
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<tr>
<td>MUSIC 381</td>
<td>MUSIC HISTORY SEMINAR II</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 150 or MUSIC 259 or MUSIC 260</td>
<td>This seminar focuses on global, popular and avant-garde music. A small number of focused topics will be chosen to explore, and students will learn about the major styles, genres, composers, and performers of these musics, as well as the function of these musics in their society. Meets Core credit for aesthetics.</td>
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<tr>
<td>MUSIC 382</td>
<td>ADVANCED CONDUCTING</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 237</td>
<td>Conducting techniques and rehearsal materials designed to prepare choral and instrumental conductors.</td>
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</tr>
<tr>
<td>MUSIC 395</td>
<td>CURRICULUM AND METHODS OF TEACHING INSTRUMENTAL MUSIC</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 259, EDCI 230PK</td>
<td>To provide the instrumental music education student with a foundation for the teaching and administration of the instrumental music program in elementary schools, secondary schools, pre-band/orchestra programs, and adult community ensembles. Includes methodology for effective teaching of performance based classes and non-performance courses as well as licensure issues.</td>
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<tr>
<td>MUSIC 396</td>
<td>CURRICULUM AND METHODS OF TEACHING CHORAL MUSIC</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 259, EDCI 230PK</td>
<td>A study of music teaching which provides the choral music education student with a foundation of teaching methodologies, classroom management strategies, and insights to effectively teach and administer the choral music program in the secondary schools.</td>
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</tr>
<tr>
<td>MUSIC 403</td>
<td>SENIOR RECITAL</td>
<td>0</td>
</tr>
<tr>
<td>Prerequisite: Concurrent with MUSIC 44- or MUSIC 45-</td>
<td>Performance of the Senior Recital as required for music majors.</td>
<td></td>
</tr>
<tr>
<td>MUSIC 405</td>
<td>ADVANCED MUSIC COMPOSITION</td>
<td>2</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 305</td>
<td>Continued study of composition including 20th century counterpoint, writing for brass, writing for percussion, and 20th century style. May be repeated as needed.</td>
<td></td>
</tr>
<tr>
<td>MUSIC 479</td>
<td>SEMINAR IN PEDAGOGY AND LITERATURE</td>
<td>2</td>
</tr>
<tr>
<td>Prerequisite: MUSIC 45X</td>
<td>Survey of standard musical repertoire for voice or a specific instrument; study of common pedagogical principles, concepts and materials for voice or a specific instrument.</td>
<td></td>
</tr>
</tbody>
</table>
MUSIC 480 ARRANGING 2
Prerequisite: MUSIC 359
Basic skills in arranging for music educators, including practical applications of music technology. This course seeks to develop the skills and knowledge that enable students to write simple choral and instrumental arrangements.

MUSIC 497 SENIOR PROJECT 2
Prerequisite: MUSIC 360
The Senior Project is a music composition, a research paper, or an analysis paper required of those students seeking a B.A. in music. It must be approved by the Music faculty. One faculty member should serve as the project advisor.

MUSIC 499 MUSIC SKILLS EXAMS 0
Prerequisite: Music major
Exams in keyboard skills and classroom music skills as required by program. Exams are offered at least once per semester.

For Applied Music courses refer to page 236.

Applied Music Courses
Prerequisites: For Music Major: acceptance to program, written permission each semester before enrolling, and for the 400 level, pass 300 level change. For Music Minor: acceptance to program, written permission each semester before enrolling availability of instructor, and passing grade in MUSIC 150 or demonstrated proficiency. General Student (not major or minor): 120 level--ability to read melodic and rhythmic music notation in clef appropriate to instrument or voice appropriate for successful study; or passing grade in MUSIC 150 or demonstrated proficiency; and availability of instructor; written permission each semester before enrolling.

Weekly individual and group instruction. Content includes the study of standard repertoire for the instrument or voice comprising but not limited to solo classical repertoire. Emphasis is placed on use of listening skills, development of proper technique, and productive practice. Outside practice is essential. (Meets up to 3 hours of Core aesthetics credit).

Applied Music Juries and Recitals
Any student receiving two hours credit in applied music will be required to perform satisfactorily at two (2) departmental/area recitals per semester. Any student receiving one hour credit will be required to perform satisfactorily at one departmental/area recital per semester. Faculty members present at the recitals will determine whether or not the performances are satisfactory or unsatisfactory. Failure to comply with recital performance requirements will result in the reduction of applied lesson grades.

Juries are required of all students studying applied music for credit. At least three faculty members will be present at all juries. The student will receive a written, graded critique from each faculty member present. These evaluations will be considered by the instructor in determining the student’s final applied grade.

Any solo for a recital or jury which requires accompaniment will not be accepted unless it is performed with the appropriate accompaniment.

(For Applied Music Fees see University Fees and Charges brochure)

* Students must pass a level change jury to pass from the 300 level to the 400 level.
* Non-majors may enroll at the 400 level following a 300-level jury with written permission.
* Non-majors may enroll at the 300 level with written permission.
* 440/450 level: music major (upper level-jr./sr.) on principal applied, 60 min. lesson
* 330/340 level: music major (lower level-fr./soph., all degrees) on principal applied, 60 min. lesson
* 200 level: music major on secondary instrument, 30 min. lesson
* 140 level: music minors, 30 min. lesson
* 120 level: general student, not music majors or minors, 30 min. lesson
## APPLIED MUSIC COURSES AND INFORMATION

<table>
<thead>
<tr>
<th>CREDITS</th>
<th>Non-Major</th>
<th>Minor</th>
<th>Secondary</th>
<th>Major Fr/So</th>
<th>Major Jr/Sr</th>
<th>Perf Fr/So</th>
<th>Perf Jr/So</th>
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<tbody>
<tr>
<td>Voice</td>
<td>120</td>
<td>140</td>
<td>240</td>
<td>340</td>
<td>440</td>
<td>330</td>
<td>450</td>
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<tr>
<td>Piano</td>
<td>121</td>
<td>141</td>
<td>241</td>
<td>341</td>
<td>441</td>
<td>331</td>
<td>451</td>
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<tr>
<td>Organ</td>
<td>122a</td>
<td>142a</td>
<td>242a</td>
<td>342a</td>
<td>442a</td>
<td>332a</td>
<td>452a</td>
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<tr>
<td>Harpsichord</td>
<td>122b</td>
<td>142b</td>
<td>242b</td>
<td>342b</td>
<td>442b</td>
<td>332b</td>
<td>452b</td>
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<tr>
<td>Flute</td>
<td>123a</td>
<td>143a</td>
<td>243a</td>
<td>343a</td>
<td>443a</td>
<td>333a</td>
<td>453a</td>
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<tr>
<td>Oboe</td>
<td>124b</td>
<td>143b</td>
<td>243b</td>
<td>343b</td>
<td>443b</td>
<td>333b</td>
<td>453b</td>
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<tr>
<td>Clarinet</td>
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<td>143c</td>
<td>243c</td>
<td>343c</td>
<td>443c</td>
<td>333c</td>
<td>453c</td>
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<tr>
<td>Bassoon</td>
<td>123d</td>
<td>143d</td>
<td>243d</td>
<td>343d</td>
<td>443d</td>
<td>333d</td>
<td>453d</td>
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<tr>
<td>Saxophone</td>
<td>123e</td>
<td>143e</td>
<td>243e</td>
<td>343e</td>
<td>443e</td>
<td>333e</td>
<td>453e</td>
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<tr>
<td>Jazz improv.</td>
<td>123j</td>
<td>143j</td>
<td>243j</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<td>Trumpet</td>
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<td>144a</td>
<td>244a</td>
<td>344a</td>
<td>444a</td>
<td>334a</td>
<td>454a</td>
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<tr>
<td>Horn</td>
<td>124b</td>
<td>144b</td>
<td>244b</td>
<td>344b</td>
<td>444b</td>
<td>334b</td>
<td>454b</td>
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<td>Trombone</td>
<td>124c</td>
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<td>244c</td>
<td>344c</td>
<td>444c</td>
<td>334c</td>
<td>454c</td>
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<tr>
<td>Baritone</td>
<td>124d</td>
<td>144d</td>
<td>244d</td>
<td>344d</td>
<td>444d</td>
<td>334d</td>
<td>454d</td>
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<tr>
<td>Tuba</td>
<td>124e</td>
<td>144e</td>
<td>244e</td>
<td>344e</td>
<td>444e</td>
<td>334e</td>
<td>454e</td>
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<tr>
<td>Jazz improv.</td>
<td>124j</td>
<td>144j</td>
<td>244j</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Violin</td>
<td>125a</td>
<td>145a</td>
<td>245a</td>
<td>345a</td>
<td>445a</td>
<td>335a</td>
<td>455a</td>
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<tr>
<td>Viola</td>
<td>125b</td>
<td>145b</td>
<td>245b</td>
<td>345b</td>
<td>445b</td>
<td>335b</td>
<td>455b</td>
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<tr>
<td>Cello</td>
<td>125c</td>
<td>145c</td>
<td>245c</td>
<td>345c</td>
<td>445c</td>
<td>335c</td>
<td>455c</td>
</tr>
<tr>
<td>Bass</td>
<td>124d</td>
<td>145d</td>
<td>245d</td>
<td>345d</td>
<td>445d</td>
<td>335d</td>
<td>455d</td>
</tr>
<tr>
<td>Guitar</td>
<td>126</td>
<td>146</td>
<td>246</td>
<td>346</td>
<td>446</td>
<td>336</td>
<td>456</td>
</tr>
<tr>
<td>Percussion</td>
<td>127</td>
<td>147</td>
<td>247</td>
<td>347</td>
<td>447</td>
<td>337</td>
<td>457</td>
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</table>
NURSING (NUR)

NUR 105 NURSING CONCEPTS AND VALUES 1
Prerequisite: Admission to CONHS

This course is designed to introduce students to the profession of nursing. The course provides an introduction to core values of nursing, insights into nursing as a profession, and a brief introduction to nursing history. Emphasis is on communication, caring, and ethics. Curricular concepts are incorporated as foundational to the nursing program.

NUR 225 PATHOPHYSIOLOGY/PHARMACOLOGY I 3
Prerequisite: BIO 223, CHEM 253

This course introduces the study of pathophysiology and pharmacology as a scientific foundation for nursing practice. The course focuses on specific pharmacotherapeutics employed in treating pathophysiologic conditions. Topics included are: cell biology, genes and genetic diseases, fluid and electrolytes, acids and basis, immunity, inflammation, the neurological system including pain and pain management, and the cardiovascular system.

NUR 226 PATHOPHYSIOLOGY/PHARMACOLOGY II 3
Prerequisite: NUR 225

This course continues NUR 225 in the study of pathophysiology and pharmacology as a scientific foundation for nursing practice. The course focuses on specific pharmacotherapeutics employed in treating pathophysiologic conditions across the lifespan. It addresses specific principles and rationales necessary to recognize the relationship between pathophysiology, pharmacology and the provision of safe nursing interventions. Topics included are: pulmonary, renal, endocrine, hematology, gastrointestinal, musculoskeletal and reproductive, as well as anti-infectives and infectious disease vitamins and minerals.

NUR 250 LPN TO BSN TRANSITION 3
Prerequisite: NUR 225 (or concurrent), PSYC 209

This course builds upon prior knowledge, skills, and abilities of qualified licensed practical nurses (LPNs) and facilitates advanced placement into the Bachelor of Science in Nursing program. The course provides an introduction to the roles of the professional nurse. Emphasis is on critical thinking skills, communication, health assessment, test taking strategies, and application of the nursing process across the life span. Students completing the 4-hour transition course will be eligible to advance to NUR 311, NUR 312, NUR 310, and NUR 336.

NUR 301 HEALTH ASSESSMENT 3
Prerequisite: BIO 223, CHEM 253

This course introduces the student to the concepts, theory, and skills needed to perform a holistic health assessment, which is the basis for the nursing process and care of the patient across the lifespan.

NUR 302 THEORETICAL BASES 3
Prerequisite: None

This course identifies factors influencing the RN student’s acculturation into baccalaureate nursing as presented at Ashland University. Students are assisted to integrate their existing roles, philosophies, and expectations with those of the nursing program (e.g., nursing metaparadigm and ICARE nursing values). The focus for study is selected middle-range and practice level theories that support the nursing process with serves as the mechanism for implementation of theory and research based nursing interventions. Curriculum concepts emphasized are communication, critical thinking, therapeutic nursing interventions, and values/valuing.

NUR 303 INDIVIDUAL HEALTH 3
Prerequisite: RN Licensure

The course focuses on the nursing process as a tool to facilitate nursing practice with individual clients. For BSN completion students, the course will enhance the RN student’s established assessment and diagnostic skills/competencies and facilitate development of new psychomotor, cognitive, and affective skills needed for comprehensive health care plans. Communication and assessment skills are utilized to establish a database for analysis. Health strengths and needs across the lifespan are determined through the individual analysis and synthesis of assessment data. Planning nursing care and implementing teaching for the purpose of health care promotion is emphasized.

NUR 304 HEALTH FOUNDATIONS I 3
Prerequisite: NUR 105, NUR 225, NUR 301 (or all concurrent), PSYC 209/FCS 270

Introduces the fundamental nursing concepts and skills, which makes up the foundation of nursing practice across the lifespan. The nursing process, communication, and caring is emphasized. Students will have the opportunity to apply concepts and psychomotor skills to an adult in a variety of health care settings.

NUR 306 HEALTH FOUNDATIONS II 5
Prerequisite: NUR 226 (or concurrent), NUR 301, NUR 304, successful completion of the Medication Calculation Exam

Continues to build on the concepts of NUR 304. Topics include the nursing process, problem solving, critical thinking, communication, physical assessment, and the psychomotor skills needed to provide holistic care for patients across the lifespan.

NUR 307 TOPICS IN NURSING 3
Prerequisite: None

A study of a specific aspect of nursing reflecting the changing focus of nursing practice. Topics will include such areas of nursing as computers in nursing, etc. May be repeated as topics change.

NUR 308 HEALTH PROMOTION FOR THE ELDERLY 3
Prerequisite: None

This course is designed to assist students to develop increased knowledge about issues affecting health care of elderly. Community resources and health promotion strategies for aging populations will be explored. Attitudes toward aging will also be examined. NUR/SOCWK credit.

NUR 309 INTERNATIONAL AND TRANSCULTURAL PERSPECTIVES 3
Prerequisite: None

The focus of this course is to gain an international perspective of health care issues. Through small group work, students will compare health-related values, beliefs, and practices in selected countries outside the United States with health-related values, beliefs, and practices within the United States. Incorporating this knowledge, students will then develop appropriate professional interventions for a specific sub-cultural group.

NUR 310 PSYCHIATRIC/MENTAL HEALTH 4
Prerequisite: DIET 320, NUR 226, NUR 306

Focuses on nursing care of individuals, families and groups; health promoting behaviors and strategies for optimal mental health; and prevention of illness. Course content further builds upon and develops relationship-centered caring; reflective and evidence-based practice; and application of the nursing process. The course explores theories, concepts, and symptoms of mental illnesses along with therapeutic interventions for those experiencing mental health alternations.

NUR 311 ADULT HEALTH CONCEPTS: REGULATION AND TRANSPORT 5
Prerequisite: DIET 320, NUR 226, NUR 306

This course is one of two companion courses that combine the nursing process and evidence practice while caring for diverse patient populations with acute and chronic health alterations. This course prepares students to communicate, think critically and make clinical judgments that focus on safety, health promotion and maintenance, psychosocial and physiological integrity. Topics include, concepts related to regulation and transport. Clinical and simulation lab experiences are included in this course.
NUR 312 ADULT HEALTH CONCEPTS: PROTECTION, SENSATION, AND MOBILITY  5
Prerequisite: DIET 320, NUR 226, NUR 306
This course is one of two companion courses that combine the nursing process and evidence-based practice while caring for diverse patient populations with acute and chronic health alterations. This course prepares students to communicate, think critically, and make clinical judgments that focus on safety, health promotion and maintenance, psychosocial and physiological integrity. Topic include concepts related to protection, sensation and mobility. Clinical and simulation experiences are included in this course.

NUR 320 EDUCATIONAL STRATEGIES FOR NURSES  4
Prerequisite: None
This course provides an overview of educational strategies for nurses. The focus for study is specific roles and responsibilities of the professional nurse to educate patients, peers, and the community. Curriculum concepts emphasized are adult learning theory learner needs, teaching methods, styles of learning, professional responsibility, program and learner evaluation, and supportive and active learning environments. Students in the school nurse track will consider course concepts specifically in the context of school health education for adolescent and adult populations.

NUR 321 OVERVIEW OF DISASTER RESPONSE NURSING  3
Prerequisite: None
This course provides an overview of the latest concepts in disaster response. The focus for study is specific roles and responsibilities of the civilian RN in response to natural and intentional disasters. Curriculum concepts emphasized are types of disasters, disaster preparedness, disaster management, unique populations, and legal/ethical concerns.

NUR 325 INTRODUCTION TO INFORMATICS IN HEALTHCARE  3
Prerequisite: RN License
The course will introduce the student to healthcare informatics. The course will provide an introductory foundation in the history of healthcare informatics and the impact healthcare informatics has on the current and future healthcare landscape. Content will include technical aspects of healthcare information technology (HIT) and clinical processes and workflows to make a positive impact on patient safety and quality.

NUR 335 GENETICS IN NURSING PRACTICE  2
Prerequisite: NUR 226, NUR 306
Focuses on nursing care of individuals, families and groups; health-promoting behaviors and strategies for optimal mental health; and prevention of illness. Course content further builds upon and develops relationship-centered caring; reflective and evidence-based practice; and application of the nursing process. The course explores theories, concepts, and symptoms of mental illnesses along with therapeutic interventions for those experiencing mental health alterations.

NUR 336 GENETICS AND HEALTH  3
Prerequisite: None
This course will provide the student with the foundational information necessary to facilitate multidisciplinary care for patients from a genetic perspective. Professional nursing standards for genetics and genomics will guide the structure of the course presentation. Genetic concepts of health, illness, and wellness as they relate to patient care will be emphasized.

NUR 360 NURSING RESEARCH  3
Prerequisite: None
The course focuses on appropriate research design, data collection tools, and analytical strategies. Students are taught to be consumers of research and to apply research findings to nursing practice.

NUR 362 NURSING RESEARCH AND EVIDENCE-BASED PRACTICE  3
Prerequisite: None
This course focuses on the contribution of theory and research to professional practice. The student is assisted in the development of skills for critical appraisal of research reports to determine scientific merit and clinical relevance. The emphasis is on the application of established findings of research to practice. Each student will identify a researchable problem and complete a literature search. Role of members of the research team will be explored.

NUR 405 HEALTH CARE SYSTEMS  3
Prerequisite: MATH 208; NUR 302, NUR 303, NUR 309, NUR 362
This course expands the utilization of the nursing process to health care delivery systems. The focus of the course is the professional nurse’s leadership and management role in working effectively within various types of organizational systems. The course emphasizes a systems theory approach to the management of organizations. The management process is related to the nursing process in the context of planning, change, and evaluation. Organizational behavior, the change process and management of the health care delivery, and the nursing care within organizations are components of this course. Professionalism, leadership-management concepts, and teaching-learning strategies are integrated with the nurse manager role to prepare the student to function as a change agent for health promotion, maintenance, and restoration in organized health care delivery systems. Clinical practice experiences focus on the application of relevant theory and research as a basis for critical thinking and decision making.

NUR 408 NURSING PROCESS: LEGAL, ETHICAL AND POLITICAL PERSPECTIVES  3
Prerequisite: MATH 208; NUR 302, NUR 303, NUR 309, NUR 362
This course concentrates on the professional role of the nurse as change agent for the profession and society. Present and future nursing roles related to public policy formation are identified while exploring their ethical, legal and political dimensions. Selected field experiences are an integral part of the courses. Emphasis is placed on strategies to influence public policy decisions that will promote ethical health care delivery.

NUR 410 COMPLEX HEALTH ALTERATIONS  5
Prerequisite: NUR 311, NUR 312
This course focuses on the holistic nursing process of selected complex health problems and their impact on the patient, the family, and the adjustment to changes in patient and family lifestyles. The integration of conceptual models of nursing, nursing informatics, and evidence-based practice prepares students to communicate, collaborate, think critically, and make clinical judgments that focus on maintaining optimum safety, health promotion and maintenance, psychosocial integrity, and physiological integrity when caring for diverse patients with complex needs. Clinical experiences are in a wide variety of health-care settings.

NUR 414 COMMUNITY AND PUBLIC HEALTH  3
Prerequisite: MATH 208; NUR 302, NUR 303, NUR 309, NUR 362
This course applies the nursing process to care of individuals, families, groups, communities, or populations with a strong focus on health promotion and disease prevention. In addition, public health nursing practice and United States public health organization/system will be addressed. Students will complete observation and a simulated clinical experience designed to familiarize them with nursing roles and decision-making related to public health.

NUR 420 COMMUNITY AND GLOBAL HEALTH  4
Prerequisite: NUR 310, NUR 410, NUR 438, NUR 440, NUR 460
This course engages students to extend the application of the nursing process to the community environment for clients, families, and aggregates, focusing on health promotion and disease prevention. Concepts of epidemiology, diverse and vulnerable populations, and health care systems are explored. International health challenges are examined to provide perspectives on global health. Students assess cultural, socioeconomic and political influences on both health and nursing practice.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NUR 425</td>
<td>TRENDS AND ISSUES IN GLOBAL HEALTH</td>
<td>3</td>
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<tr>
<td>Prerequisite: NUR 310, NUR 410, NUR 438, NUR 440, NUR 460</td>
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<td></td>
<td>The student will explore in-depth the impact of political, economic, social, ethical, and legal factors on the health care delivery systems, both in the United States and around the world, and interrelationships of these factors with professional nursing.</td>
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<tr>
<td>NUR 428</td>
<td>LEADERSHIP MANAGEMENT OF HEALTH ORGANIZATIONS</td>
<td>3</td>
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<tr>
<td>Prerequisite: NUR 310, NUR 410, NUR 438, NUR 440, NUR 460</td>
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<td>Students will explore various management, organizational, leadership and change theories, and discuss their application to the nursing care of patients and groups of patients. Examination of health care environments, with emphasis on safety and quality, interdisciplinary collaboration, and systems assessments will be incorporated.</td>
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<tr>
<td>NUR 430</td>
<td>ADVANCED SIMULATION</td>
<td>1</td>
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<tr>
<td>Prerequisite: NUR 310, NUR 410, NUR 438, NUR 440, NUR 460</td>
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<td>In this course students will enhance their skills in the treatment of complex medical-surgical patients through active participation in a series of simulated studies scenarios. These simulations are designed to reinforce important concepts and achieve certification in Advanced Cardiovascular Life Support (ACLS).</td>
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<tr>
<td>NUR 435</td>
<td>CAPSTONE PRECEPTORSHIP</td>
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<tr>
<td>Prerequisite: NUR 310, NUR 410, NUR 438, NUR 440, NUR 460</td>
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<td>The capstone clinical experience provides students with concentrated preceptor clinical opportunities in a variety of acute care settings, providing opportunities to refine development of nursing management of patients and groups of patients. Students synthesize knowledge from all previous courses to provide safe holistic care as they transition to the nursing profession.</td>
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<tr>
<td>NUR 438</td>
<td>MATERNAL NEWBORN HEALTH</td>
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<td>Prerequisite: NUR 311, NUR 312</td>
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<td>This course provides evidence-based knowledge and skills essential to caring for women and families during the childbearing years. The experience of the healthy childbearing family, as well as the family with health alterations, is in the theoretical context of nursing process and practice. Emphasis is placed on physical, emotional, developmental, spiritual, ethical, legal, socio-economical-political and cultural care from the perspective of the individual and family, and local and global communities.</td>
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<tr>
<td>NUR 440</td>
<td>PEDIATRIC HEALTH</td>
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<td>Prerequisite: NUR 311, NUR 312</td>
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<td>This course focuses on nursing care of infants, children, adolescents and families and is designed to provide the student with pediatric nursing knowledge and skills integral to the practice of professional nursing.</td>
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<tr>
<td>NUR 448</td>
<td>BIO-MEDICAL ISSUES FOR CHILDHOOD PROFESSIONALS</td>
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<td>Prerequisite: See EDEC 448 for course information.</td>
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<tr>
<td>NUR 460</td>
<td>THEORETICAL FOUNDATIONS IN HEALTH RESEARCH</td>
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<tr>
<td>Prerequisite: NUR 311, NUR 312, MATH 208</td>
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<td>The application of nursing research to substantiate nursing theory and practice is explored. Appreciation for nursing theory evolution is developed as key nursing theorists are compared and contrasted. Research foundations are introduced, with emphasis on interpretation and critique of nursing research.</td>
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**PHILOSOPHY (PHIL)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL 204</td>
<td>CONCEPT OF TRUTH</td>
<td>3</td>
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<td>Prerequisite: None</td>
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<td></td>
<td>This course intensively examines the concept of truth as it has been manifested in major western philosophers from the ancient and medieval period, the classical modern period, and the contemporary period in the history of philosophy. Students will consider how the philosophical concepts of truth in their respective time periods served as underpinnings for the entirety of culture at the time, and how that sheds light on how contemporary considerations of truth hold sway. Meets Core credit for humanities.</td>
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<tr>
<td>PHIL 205</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
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<td>Prerequisite: None</td>
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<td>Examines formal and informal fallacies as well as deductive and non-deductive reasoning as they emerge from actual historical philosophical texts. Major themes will include fundamental questioning and the search for meaning and truth which have characterized philosophical thinking. Meets Core credit for math/logic.</td>
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<tr>
<td>PHIL 208</td>
<td>MAJOR THINKERS IN DIALOGUE</td>
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<td>Prerequisite: None</td>
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<td>This course introduces students to the history of ideas through analyses of central and original texts of two great philosophers whose works form a dialogue, focusing not merely on the study of major works of philosophy, but also on the intellectual milieu in which those works are situated and the impact those works have had on a variety of other fields and on society in general. Students will come to know philosophical ideas and will strengthen their critical abilities in regard to basic concepts. Meets Core credit for humanities.</td>
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<tr>
<td>PHIL 210</td>
<td>PHILOSOPHY OF HUMAN NATURE</td>
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<td>Prerequisite: None</td>
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<td>Many fields of inquiry traffic in a conception of some fixed essence of humanity, in which we all share. The idea of there being a human nature serves as a kind of Archimedean point from which we can learn to judge whether particular virtues possessed by this or that society represent the best life for us, given that essential human nature. What makes this a philosophical issue is precisely that there is disagreement among philosophers as to whether or not there is such a constant, and what the possessions of such a notion entails. Meets Core credit for humanities.</td>
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<tr>
<td>PHIL 215</td>
<td>ETHICS</td>
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<td>Prerequisite: None</td>
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<td>This course is a substantive study of major classical figures in western moral philosophy, including Plato, Aristotle, Aquinas, Kant, Mill, and Nietzsche. It deals with the questions: What are the fundamental rules that guide our actions? Can we ever rationally justify moral judgments? What is the relationship between ethics and religion? While this course emphasizes theory, the philosophers' views are explicated with regard to contemporary issues. Meets Core credit for humanities.</td>
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<tr>
<td>PHIL 217</td>
<td>THOUGHT AND BELief</td>
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<td>Prerequisite: None</td>
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<td>The course will probe specific areas where Western philosophy and the Christian tradition interrelate focusing on various religious topics that have philosophical implications, such as the nature of faith, salvation, the character of God, the problem of evil, and the practice of faith. Meets Core credit for humanities.</td>
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<tr>
<td>PHIL 220</td>
<td>PRACTICAL THINKING</td>
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<td>Prerequisite: None</td>
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<td>Examines formal and informal fallacies, symbolic translation, and deductive and non-deductive reasoning as they emerge in everyday practical contexts. The student will learn the basics of argument, master the notions of validity and soundness, and perform some real world proofs to enable him to defend against the persuasive tools and against himself daily. Meets Core credit for math/logic.</td>
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PHIL 280  APPLIED ETHICS  1-3
Prerequisite: None
Five, ten-, or fifteen-week sections which investigate moral philosophy as it manifests itself in practical contexts. The focus is on how to arrive at the best moral reasons for acting within practical parameters which present their own special tasks, vocabularies, and sets of problems. A maximum of three hours may be taken for Core humanities credit.

PHIL 317  PHILOSOPHY OF RELIGION  3
Prerequisite: PHIL 204, 205, 208, 210, 215, or 217
Philosophy of religion is the critical examination of basic religious beliefs and concepts. Its focus is to philosophically consider the claims that people make about religion, e.g., about the nature of God, and assess the conceptual grounds upon which these claims stand. The course evaluates the facts and theories available for and against certain religious claims, facts and theories that are available to any rational person, whether religious or not. The usual topic for this course will be making sense of the concept of God. Other topics may be offered on occasion. Offered spring of even years. Meets Core credit for humanities.

PHIL 318  TOPICS IN PHILOSOPHY  3
Prerequisite: PHIL 204, 205, 208, 210, 215, or 217
Focuses on unique, particular issues and their accompanying sets of arguments that have formed their own research categories in philosophy, such as the mind-body problem, the problem of evil, freedom vs. determinism, the issue of reference in the philosophy of language, the problem of universals, the problem of contextualism, or the problem of induction in the philosophy of science. The focus is on the arguments rather than on great books or individuals of historical significance. May be repeated for credit as topics change. Meets Core credit for humanities.

PHIL 204, 205, 208, 210, 215, or 217  PREREQUISITE: PHIL 220 recommended
This course is a more advanced offering of techniques in logical analysis. Students will focus on constructing deductive arguments, engage in symbolic translation, recognize formal argument forms, do truth-table analysis, conduct proofs, and employ sentential and quantification logics. Meets Core credit for math/logic.

PHIL 330  PHILOSOPHICAL READINGS  3
Prerequisite: PHIL 204, 205, 208, 210, 215, or 217
Philosophical readings courses are to be thought of as a series of great works which when taken together form a sustained whole. The course will conduct its inquiry in complete works which cross time periods and traditions within philosophy. Offered every three semesters. Meets Core credit for humanities. May be repeated for credit as topics change.

PHIL 350  SCIENCE AS A CULTURAL FORCE  3
Prerequisite: See CHEM 350 for course information
This course evaluates the thinking of a single major theoretical figure across a series of original texts addressing different subjects, but usually including combinations of that thinker's views on metaphysics, epistemology, ethics, and aesthetics. The course shows how thinker's views often form an organic whole unified across texts and time periods in their lives, and how ideas develop from earlier to later views, or in response to personal or world events. Offered every three semesters. Meets Core credit for humanities. May be repeated for credit as topics change.

PHIL 309  SOCIAL AND POLITICAL PHILOSOPHY  3
Prerequisite: PHIL 204, 205, 208, 210, 215, or 217
This course is the philosophical study of people in societies with particular attention to the abstract claims they have on each other in the form of individual rights, duties, and privileges; and their demands for equality, justice, and freedom. The course addresses the overlap between political and moral duties and obligations, how moral themes are translated into political rights, and how social categories of concern often conflict with their political articulation. Offered fall of even years. Meets Core credit for humanities. May be repeated for credit as topics change.

PHIL 204, 205, 208, 210, 215, or 217  PREREQUISITE: PHIL 220 recommended
This course is a more advanced offering of techniques in logical analysis. Students will focus on constructing deductive arguments, engage in symbolic translation, recognize formal argument forms, do truth-table analysis, conduct proofs, and employ sentential and quantification logics. Meets Core credit for math/logic.

PHYS 107  THE HIDDEN LIFE OF THE STARS  3
Prerequisite: High school geometry and trigonometry
Stars have a rich history in the development of our understanding of nature. Stellar life cycles will be used to illustrate concepts in modern astronomy. The history of understanding the stars will lead from Copernicus and Galileo to modern ideas in particle physics and relativity. Basic concepts from astronomy will be developed in an algebraic framework and applied to understanding the life cycle of a star, including birth, main cycle, and death. There will be evening observation field trips. Meets Core credit for natural sciences.

PHYS 201-202  GENERAL PHYSICS  4-4
Prerequisite: High school algebra and geometry; PHYS 201 for 202
This course presents to liberal arts and pre-professional students the basic concepts, unifying principles and cultural aspects of the whole field of physics. Three lectures-recitations and one two-hour laboratory per week.
**PHYS 205-206  UNIVERSITY PHYSICS  5-5**  
*Prerequisite: MATH 206; PHYS 205 for 206*  
This is a thorough course designed to impart a working knowledge of the fundamental principles, practical applications and techniques of general physics to physics majors, pre-engineering students and others specializing in the physical sciences. Four lecture-recitations and one-two hour laboratory per week.

**PHYS 297  INTRODUCTION TO LABORATORY FIELD RESEARCH  1**  
*Prerequisite: Sophomore or junior standing*  
This course will introduce the student to scientific research in the laboratory or field through individual instruction under the direction of a Physics faculty member. Graded S/U. Offered each semester.

**PHYS 301-302  ELECTRICITY AND MAGNETISM I-II  3-3**  
*Prerequisite: MATH 305, PHYS 206, PHYS 301 for 302*  
This is an intermediate electricity and magnetism course mainly for students majoring in physics or for pre-engineering students. It is a further study of electric and magnetic forces, fields, potentials and energies, along with the electric currents and Maxwell equations. Three lecture recitations per week.

**PHYS 303-304  MECHANICS I-II  3-3**  
*Prerequisite: MATH 305, PHYS 206, PHYS 303 for 304*  
This intermediate mechanics course is a further study of Newtonian mechanics, such as harmonic motions, 3-dimensional motion, noninertial reference systems, central forces, dynamics of a system of particles and motions of rigid bodies Lagrangian mechanics is included. Three lecture recitations per week.

**PHYS 305  MODERN PHYSICS  4**  
*Prerequisite: PHYS 206 and MATH 305*  
The nature and properties of the electron, thermionic and photoelectric emission of electrons atomic, and molecular spectra, relativity, quantum mechanics, X-rays, natural and induced radio-activity, nuclear physics, cosmic rays, etc. Four lecture-recitations per week.

**PHYS 306  HEAT  3**  
*Prerequisite: PHYS 206 and MATH 206*  
Temperature and thermal expansion; nature, quantity and transfer of heat, change of state, laws and equations of thermodynamics, heat engines, refrigeration and air conditioning, liquefaction of gases and cryogenics, measurement of low and high temperatures, kinetic theory of gases. Three lecture recitations per week.

**PHYS 320  ORIGINS OF THE UNIVERSE  3**  
*Prerequisite: High school algebra and trigonometry*  
A look from the scientific view point into the origin of the universe. The course takes a conceptual approach in understanding the two great physical theories of the twentieth century, Relativity and Quantum Mechanics, followed by applications in particle physics and cosmology. No previous science knowledge is assumed or required. Meets Core credit for natural sciences.

**PHYS 350  SCIENCE AS A CULTURAL FORCE  3**  
*Prerequisite: See CHEM 350 for course information*  

**PHYS 402  OPTICS  3**  
*Prerequisite: PHYS 206 and MATH 206*  
Nature, propagation and intensity of light, sources of light; formation of images, description and use of optical instruments, dispersion, spectra, color theory, interference and diffraction, polarization, and other properties and effects of light. Three lecture-recitations per week.

**PHYS 403  QUANTUM MECHANICS  3**  
*Prerequisite: PHYS 305, MATH 313*  
This course is an introduction to the formal theory of quantum mechanics. The stress through- out is on the formulation of quantum mechanics and not on its application. It is a concise, axiomatic development of the theory with a view to bring out the main features of its mathematical and conceptual structure. Three lecture-recitations per week.

**PHYS 404  SOLID STATE PHYSICS  3**  
*Prerequisite: PHYS 305, MATH 313*  
This is an introductory course to solid state physics. Free electron model, Lattice structure, energy bands, semiconductors, and magnetic properties of solids are discussed. Three lecture-recitations per week.

**PHYS 410  TOPICS IN THEORETICAL PHYSICS  3**  
*Prerequisite: PHYS301, 303; MATH 313*  
An advanced course in current topics and/or advanced theories of modern physics, taught at the advanced undergraduate or beginning graduate level. Application of Hamiltonian mechanics, Maxwell's equations, and quantum mechanics will be emphasized throughout the course. Possible topics of study include general relativity, nuclear physics, particle physics, solid state physics, and string theory. May be repeated for credit as topics change.

**PHYS 493  INTERNSHIP  1-4**  
*Prerequisite: See CHEM 493 for course description.*  

**PHYS 497  LABORATORY AND FIELD RESEARCH  1-3**  
*Prerequisite: Sophomore status*  
Laboratory research performed under faculty supervision. This course allows undergraduate students the opportunity to become involved in original research projects directed by Chemistry/Geology/Physics faculty members. Repeatable up to 8 credits.

**POLITICAL ECONOMY (POLEC)**

**POLEC 200  FOUNDATIONS OF POLITICAL ECONOMY  3**  
*Prerequisite: None*  
An introduction to the fundamental alternative ways of thinking about the relation between government and economic life and to the main concepts necessary for thinking about this relation.

**POLEC 310  THE POLITICAL ECONOMY OF A FREE SOCIETY  3**  
*Prerequisite: None*  
Examines the fundamental change that occurred in political economy in the 17th and 18th centuries. Emphasis will fall on the Enlightenment impetus towards freedom and the rise of classical liberalism. An examination of the original arguments for classical liberal political economy found in the works of thinkers such as Smith, Ricardo, Bastiat, Cobden, and others.

**POLEC 320  LATE MODERN POLITICAL ECONOMY: THE WELFARE STATE AND BEYOND  3**  
*Prerequisite: None*  
Examines the most influential thinkers on political economy from the 19th Century to the present, including Marx, von Mises, Keynes, Hayek, Friedman, and others.

**POLEC 410  AMERICAN POLITICAL ECONOMY I: FOUNDING THROUGH CIVIL WAR  3**  
*Prerequisite: None*  
Examines the theory and practice of government’s role in the American economy through the Civil War. May include the arguments of Jefferson, Madison, Hamilton, Clay, and Lincoln as well as topics such as assumption of Revolutionary debt, slavery, the National Bank, government funding of internal improvements, the development of railroads, and the opening of Western lands.
POLEC 420 **AMERICAN POLITICAL ECONOMY II: RECONSTRUCTION THROUGH THE GREAT SOCIETY**

**Prerequisite:** None  
Examines the theory, practice, and consequences of government’s role in the American economy from Reconstruction through the Great Society. May include the arguments of Teddy Roosevelt, Woodrow Wilson, Calvin Coolidge, FDR, Dwight Eisenhower, and LBJ as well as topics such as trust-busting, creation of the Federal Reserve, the impact of World War, the New Deal, the federal highway system, and the Great Society.

**POLEC 430 INTERNATIONAL POLITICAL ECONOMY AND GLOBALIZATION**

**Prerequisite:** None  
Examines the attempts to develop, preserve, and regulate an international economy based on the principle of free trade. Considers questions such as what political institutions are required for free trade as well as specific issues such as the World Bank, the dollar standard, exchange rates, national borrowing and lending, and sovereign debt.

**POLEC 440 TOPICS IN POLITICAL ECONOMY**

**Prerequisite:** None  
An intensive examination of an important topic, text, or controversy in political economy. Topics will change from year to year. May be taken twice with department approval.

**POLITICAL SCIENCE (POLSC)**

**POLSC 101 UNDERSTANDING POLITICS**

**Prerequisite:** None  
This course immerses students in the intensive study of the fundamental question: What is politics? Our goal is to understand how politics shapes society and what distinguishes the political from the economic, social, artistic, religious, etc. We will read several fundamental works of political thought and statesmanship which may include the Bible, Plato's Apology, Aristotle's Politics, Machiavelli's *The Prince*, Shakespeare's *Julius Caesar* or Henry V, Locke's Two treatises of Government, Rousseau's Social Contract, Penn Warren's *All the King's Men*, or Churchill's *The Gathering Storm*. Meets Core credit for social sciences.

**POLSC 102 DEMOCRACY IN AMERICA**

**Prerequisite:** None  
An introduction to American politics, with primary emphasis on national institutions. Course topics include the political theory of the American Constitution, the relations among the different branches of government and between state and federal institutions, and the role of the courts in the protection of civil liberties.

**POLSC 201 TOPICS IN CLASSICAL CIVILIZATION**

**Prerequisite:** None  
See HIST 201 for course description.

**POLSC 205 COMPARATIVE POLITICS**

**Prerequisite:** None  
This course immerses students in the comparative study of regimes such as liberal democracy, monarchy, tyranny, and theocracy, especially as these are found in historical or contemporary city-states, nations, or empires. Such study can be comparative either because two or more different regimes are being examined together (e.g., aristocracy and democracy) or because the same regime is being investigated from different perspectives (e.g., liberal democracy in Germany and France) or with different means (e.g. tyranny is studied using contemporary and historical information, literature, political biography, geography, religious traditions, political theory, etc.). In every case, at least two different countries will be studied.

**POLSC 231 INTERNATIONAL RELATIONS**

**Prerequisite:** None  
This course will immerse students in the study of international relations, especially how and why countries fight wars and make and maintain peace. Drawing on both historical and contemporary examples, the course may examine both the writings of theorists and the speeches and deeds of leading statesmen.

**POLSC 236 AMERICAN FOREIGN POLICY**

**Prerequisite:** None  
A study of the foreign relations of the United States, underscoring the factors that determine formulation, execution and substance of U.S. foreign policy, traditional and contemporary, with emphasis on the place of the United States in today's world. HIST 236/POLSC 236 credit.

**POLSC 305 POLITICAL PARTIES AND INTEREST GROUPS**

**Prerequisite:** None  
A study of the origins, development and contemporary character and problems of American political parties and the party system, and an examination of the role of interest groups in the political process.

**POLSC 310 THE PRESIDENCY**

**Prerequisite:** None  
A study of the nation’s Chief Executive Office.

**POLSC 312 CONGRESS**

**Prerequisite:** None  
A study of the nation's legislative body, focusing on the nature of representation in Congress, the place of Congress within the framers’ constitutional design, the historical development of the institution and its powers, and the operation of the modern Congress.

**POLSC 320 AMERICAN POLITICAL THOUGHT I: REVOLUTION TO THE CIVIL WAR**

**Prerequisite:** None  
A study of the political ideas of American statesmen and writers from the 18th century to the secession crisis. Candidates for consideration include Jefferson, Franklin, Adams, Madison, Hamilton, and Calhoun.

**POLSC 321 AMERICAN POLITICAL THOUGHT II: RECONSTRUCTION TO THE PRESENT**

**Prerequisite:** None  
A study of the political ideas of American statesmen and writers from the Civil War period to the present. Candidates for consideration include Lincoln, Frederick Douglass, Twain, Melville, Booker T. Washington, Woodrow Wilson and Franklin Roosevelt.

**POLSC 336 CONSTITUTIONAL POWERS**

**Prerequisite:** POLSC 102  
A study of the American constitutional framework for the exercise of governmental power, with particular emphasis on the role of the Supreme Court in articulating that framework. Through reading Court cases and other materials, students address such questions as: how should the Constitution be interpreted? what are the respective powers of the Courts, the Congress and the President? What limits on those powers does the Constitution impose? What is the proper constitutional relationship between the state and the federal government?

**POLSC 337 CONSTITUTIONAL RIGHTS**

**Prerequisite:** POLSC 102  
A study of individual rights protected by the U.S. Constitution, as viewed through Supreme Court cases and other materials. The primary focus will be on the First Amendment rights of freedom of speech and press and of religious liberty, the 14th Amendment’s guarantee to each person of the equal protection of the laws, rights of political participation and constitutional protections of property and privacy.

**POLSC 341 MODERN MIDDLE EAST**

**Prerequisite:** See HIST 341 for course description.

**POLSC 343 WESTERN POLITICAL THOUGHT I: ANCIENT POLITICAL THOUGHT**

**Prerequisite:** POLSC 101  
This course immerses students in the study of ancient political thought, whose central concern is the search for the best regime–the one that most cultivates human excellence. We will examine this politics of virtue by reading several great works of political philosophy from thinkers such as Plato and Aristotle.
POLSC 344  WESTERN POLITICAL THOUGHT II: ANCIENT POLITICAL THOUGHT  3
Prerequisite: POLSC 101
This course is an intensive study of major texts in medieval political thought. Particular attention will be given to the issue of how medieval thinkers from a variety of backgrounds attempted to deal with the relationship between reason and revelation in politics. Thinkers to be studied may include Augustine, Aquinas, Dante, Marsilius of Padua, Maimonides, Alfarabi, Averroes, or Avicenna.

POLSC 345  WESTERN POLITICAL THOUGHT III: EARLY MODERN POLITICAL THOUGHT  3
Prerequisite: POLSC 101
This course is designed to immerse students in the study of modern political thought with central concerns being human security, comfort, and liberty. We will examine this new politics of freedom by reading several great works of political philosophy from thinkers such as Machiavelli, Hobbes, and Locke. Meets Core credit for social sciences.

POLSC 346  WESTERN POLITICAL THOUGHT IV: LATE MODERN POLITICAL THOUGHT  3
Prerequisite: POLSC 101
A study of selected works of leading political thinkers from the end of the 18th century to the present, such as Kant, Hegel, Mill, Marx, Nietzsche, Strauss and Rawls.

POLSC 351  POLITICS AND RELIGION  3
Prerequisite: POLSC 101
This course is an intensive study of important thinkers, texts, or issues focusing on the proper relation between political authority and religious authority, law, or faith. Topics may include Christianity and politics, the rise of the political principle of religious toleration in the West, Islamic political thought, or the contemporary relation between religion and liberal democracy.

POLSC 352  THE AMERICAN FOUNDING  3
Prerequisite: None
A seminar on the principles and practices of America's founding statesmen. We examine how the founders formulated and reconciled ideas (natural rights, separation of powers, federalism) with interests (economic, political, regional, etc.). HIST 352/POLSC 352 credit.

POLSC 355  INTERNATIONAL ORGANIZATION  3
Prerequisite: None
A study of historical movements toward world cooperation, including an evaluation of the League of Nations and a study of the United Nations as well as regional organizations established since World War II.

POLSC 360  REGIONAL STUDIES  3
Prerequisite: None
A study of political systems of different countries or regions selected on a rotating basis, including such geographic areas or nations as Western Europe, Asia, Latin America, the Soviet Union and Japan. May be repeated for credit for different topical or areas studies.

POLSC 370  TOPICS IN AMERICAN POLITICS  3
Prerequisite: None
Intensive study of a topic in the field of American government and politics. May be repeated for credit as topics change.

POLSC 375  LINCOLN  3
Prerequisite: See HIST 375 for course description

POLSC 380  TOPICS IN POLITICAL THOUGHT  3
Prerequisite: None
Intensive study of some theme or thinkers in the field of political thought. May be repeated for credit as topics change.

POLSC 381  CHURCHILL  3
Prerequisite: None
A seminar that considers the political thought and actions of Winston S. Churchill. Readings include a number of his speeches, essays and books; e.g., My Early Life, Savrola and The Gathering Storm. HIST 381/POLSC 381 credit.

POLSC 385  SHAKESPEARE'S POLITICS  3
Prerequisite: None
An examination of those plays of Shakespeare that shed particular light on essential political issues, such as tyranny, legitimacy, and statesmanship.

POLSC 390  TOPICS IN COMPARATIVE AND INTERNATIONAL POLITICS  3
Prerequisite: None
Intensive study of a topic in the fields of comparative and international politics. May be repeated for credit as topics change.

A-MODER REVOLUTIONS
A comparative examination of the three most influential revolutions of the modern world: American, French and Soviet.

POLSC 430  INTERNSHIP IN GOVERNMENT AND POLITICS  3-12
Prerequisite: Junior status and major or minor in political science or International political studies
To provide for on-the-job experiences for students of government and politics on an individual basis in selected offices or installations at the local state, or federal level. Each internship is arranged by the student's advisor with a specific official for a designated purpose, comporting with the student's interest and capabilities. Internships may be for either three or six hours in a local office, nine hours for a summer program, or 12 hours for an off-campus semester.

POLSC 431  HUMAN BEING AND CITIZEN  3
Prerequisite: Senior status
An attempt to understand the great issues animating politics-freedom, justice, equality, ethnicity-from the point of view of other disciple-lines and perspectives. The seminar will examine what it means to be a citizen, something of what it means to be a human being, and how each depends upon the other. Meets Core credit for social sciences

POLSC 497  THESIS SEMINAR  3
Prerequisite: Senior status and departmental major or minor
The course is designed for a major or minor in the Department who is researching and writing a senior thesis. It is a guided, intensive study of the student's interest and capabilities. The student may not have acquired or be in the process of acquiring more than 3 hours of academic credit for work connected to the project to be undertaken in HIST/POLSC 497 (for example, through Independent Study).

PORTUGUESE (PORT)

PORT 141  ELEMENTARY PORTUGUESE I  3
Prerequisite: None
An introduction to Portuguese language and culture with practice in the basic skills of the language. There will be a one-hour per week required laboratory. Taught in Portuguese. Offered infrequently. Meets Core credit for CCI.

PORT 142  ELEMENTARY PORTUGUESE II  3
Prerequisite: PORT 141
A continuation of PORT 141 Elementary Portuguese I. Taught in Portuguese. Offered infrequently. Meets Core credit for CCI.
PORT 241  INTERMEDIATE PORTUGUESE I  3
Prerequisite: PORT 142
A course designed to increase the student's understanding of the language by building on the skills learned in the elementary course. There will be a one-hour per week required laboratory. Taught in Portuguese. Offered infrequently. Meets Core credit for CCI.

PORT 242  INTERMEDIATE PORTUGUESE II  3
Prerequisite: PORT 241
A continuation of PORT 241. One-hour per week lab. Taught in Portuguese. Offered infrequently.

PSYCHOLOGY (PSYC)

PSYC 101  GENERAL PSYCHOLOGY I  3
Prerequisite: None
This course centers around the question, How do we explain human behavior? Inquiries are framed in the context of the major theoretical perspectives emergent from the sociohistorical evolution of psychology as a field of study. Behavior topics are examined by comparing and contrasting the assumptions, research methods, and conclusions embedded within the biological, psychoanalytical, behavioral, humanistic, cognitive, and sociocultural theories. Psychological inquiries also include evaluation of how these diverse approaches converge on questions about multiple influences on human behavior. Meets Core credit for social sciences.

GENERAL PSYCHOLOGY II  3
PSYC 102  Prerequisite: PSYC 101
A continuation of 101 with an emphasis on science and the scientific method as it pertains to selected psychological topics and issues. Meets Core credit for social sciences.

PSYC 104  PSYCHOLOGY OF ADJUSTMENT  3
Prerequisite: None
A detailed study of principles underlying a mentally healthy life style and its relationship to a meaningful life existence. Special attention is given to methods of preventing personal maladjustments and remedial treatment for adjustment disorders.

PSYC 209  DEVELOPMENTAL PSYCHOLOGY  3
Prerequisite: None
The investigation of the physical, cognitive, and psychosocial changes that occur in the individual. Emphasis is placed on the genetic and environmental origins of behavior impacting development from birth to adolescence as well as the manifestations of these dynamic processes across the life span.

PSYC 210  RESEARCH METHODS IN PSYCHOLOGY  3
Prerequisite: PSYC 101
This course provides an introduction to psychological research techniques and methodology. Basic principles and procedures in the design, analysis, and write-up of research are provided. Students learn to select appropriate research topics, plan data collection and analysis, examine potential threats to internal and external validity, and ways to statistically analyze the data. In addition to lectures and readings, students will actively participate in the design of a semester-long project making sure it conforms to ethical standards in the field. The student will then write a research proposal using the most current A.P.A. style.

PSYC 218  PSYCHOLOGY OF ADOLESCENCE  3
Prerequisite: None
This course explores the nature of adolescent behavior. The physical, cognitive, and psycho-social development of adolescents are examined in the contexts of peers, family, schools, work, and culture/society, using the theoretical perspectives identify that will allow the adolescent to function effectively in adulthood. Meets Core credit for social sciences.

PSYC 224  PSYCHOLOGY OF AGING  3
Prerequisite: None
The focus of this course is the study of the later years of the lifespan (i.e., the stage of Integrity vs. Despair as identified by Erik Erikson). Topics will include theories of aging, research methods, cognitive processes and intellect in late life, self and personality development, mental health, and clinical assessment.

PSYC 240  SENSATION AND PERCEPTION  3
Prerequisite: PSYC 101
An introductory study into how the sense modalities (sensation) provide the necessary information for the mind to analyze and interpret this information (perception) to create a mental world. Laboratory experiences will emphasize vision and audition.

PSYC 264  CHILD DEVELOPMENT  3
Prerequisite: None
A study of the factors involved in the physical, language, cognitive, social, emotional, and aesthetic development of all children, both typical and atypical from birth through age 8. The young child is studied within the contexts of family, culture, and society. Two class hours and one laboratory hour a week.

PSYC 280  SPORT PSYCHOLOGY  3
Prerequisite: None
This course is an introduction to the field of sport psychology, a subspecialty of psychology that is concerned with identifying and understanding psychological factors that can be applied to sport in order to enhance athletic performance and personal growth. Students will be introduced to major theories of sport psychology, including strengths and critiques of those theories. Major themes of the class include the study of factors influencing motivation, ways to manage competitive stress, improving concentration, effectively using visualization, coping with failure, the importance of pre-performance routines, and building and maintaining confidence.

PSYC 297  DIRECTED RESEARCH  0-3
Prerequisite: Permission
Students will work under the close supervision of a faculty mentor to implement faculty-designed research protocols, manage data from those protocols, and/or assist with the dissemination of results of such work. May be repeated for up to a total of 6 hours. (Note: Although 18 hours of Directed Research [PSYC 297/397/497] may be taken, only 3 hours may count toward a psychology major or minor).

PSYC 299  SPECIAL TOPICS  1-3
Prerequisite: PSYC 101
A course for students with a particular interest in the special topic being discussed that semester. Topics selected are not typically covered in the regular scheduled psychology courses. The focus will be on reading assignments, class discussions, and the sharing of ideas rather than formal lectures. May be repeated for different topics.

PSYC 305  SOCIAL PSYCHOLOGY  3
Prerequisite: PSYC 101
The psychological study of the individual in relation to social groups, social forces, and social problems. PSYC/SOC credit.

PSYC 306  CONSUMER BEHAVIOR  3
Prerequisite: PSYC 101
An analysis of the basic concepts and principles of consumer behavior. Emphasis will be placed on the cognitive, behavioral and social influences as they relate to consumer attitudes, perceptions and purchases. The course explores the consumer decision process and marketing efforts to influence and shape that process. PSYC 306/MKT 326 credit.

PSYC 307  PERSONALITY  3
Prerequisite: PSYC 101
A detailed investigation of the psychodynamic, behavioristic, humanistic, and dispositional perspectives as related to the four basic issues of each (i.e. theory, research, assessment, and therapy.)
An introductory course will cover theoretical perspectives, research methods, attraction, social cognition, interdependence, friendship, love, stressors in a relationship (e.g., infidelity, jealousy), relationship maintenance, conflict and conflict resolution, and dissolution. A review of the current literature (i.e., primary source articles) surrounding such topics will be an integral part of the course.

PSYC 495 SENIOR SEMINAR IN PSYCHOLOGY 3
Prerequisite: PSYC 210 & 6 hours in PSYC at 300 level or above
PSYC 495 is an advanced course in Psychology focusing on the current literature (i.e., psychological journal articles) in a selected topic. Students will develop their critical thinking and communication skills through reading, critiquing, and discussing research writing in a discussion-based seminar style setting.

PSYC 497 DIRECTED RESEARCH 0-3
Prerequisite: Permission
Students will work under the close supervision of a faculty mentor to implement faculty-designed research protocols, manage data from those protocols, and/or assist with the dissemination of results of such work. May be repeated for up to a total of 6 hours. (Note: Although 18 hours of Directed Research [PSYC 297/397/497] may be taken, only 3 hours may count toward a psychology major or minor).

RECREATION (REC)

REC 240 FUNDAMENTALS OF THERAPEUTIC RECREATION 3
Prerequisite: None
Psychological, sociological, and historical significance of therapeutic recreation; the philosophy, theories, and practices of health and human service professionals; needs and implications of therapeutic recreation with persons with disabilities.

REC 330 TECHNIQUES IN THERAPEUTIC RECREATION 3
Prerequisite: REC 240
Ability to implement a variety of individual and group techniques, utilize a variety of assistive and adaptive devices and techniques, apply therapeutic recreation content and services, use instruction, supervision, and leadership techniques, and apply activity and task analysis in the delivery of services.
**REL 213** LIFE AND LETTERS OF PAUL 3  
Prerequisite: None  
Examination of Saul/Paul through a careful study of the Book of Acts and the letters attributed to Paul, aided by useful secondary sources. Of interest are not only the social and theological concerns addressed by the apostle Paul but also the ways in which his teachings apply to the contemporary world.

**REL 214** CHRISTIAN FORMATION 3  
Prerequisite: None  
Investigates how Christians grow in faith, understanding and commitment, and considers how to encourage and nurture such growth. Explores the biblical, theological, historical and cultural foundations of Christian formation; identifies and analyzes specific practices and connections between Christian formation and other areas of the Christian life such as worship, service, and mission.

**REL 220** TAKING HUMAN LIFE 3  
Prerequisite: None  
Deals with the questions of whether it is permissible to take human life and if so, what the conditions might be that warrant or limit such behavior. Examines the issues of euthanasia, abortion, capital punishment, suicide and warfare from literary, philosophical, social, scientific, and religious perspectives, mainly from the Judeo-Christian viewpoint. Meets Core credit for humanities.

**REL 231** HISTORY OF CHRISTIANITY TO THE REFORMATION 3  
Prerequisite: REL 106  
Focuses on the history of Christianity from the 1st to the middle of the 17th century. Emphasis will be primarily on the social context within which Christianity developed, and secondarily on Christian thought during the period.

**REL 232** HISTORY OF MODERN CHRISTIANITY 3  
Prerequisite: REL 106  
Focuses on the history of Christianity from the mid 17th century to the present. Emphasis will be primarily on the social context within which modern Christianity developed, and secondarily on Christian thought through the period.

**REL 233** HISTORY OF RELIGIONS IN AMERICA 3  
Prerequisite: REL 106  
Focuses on the history of religions in America from the mid-16th century to the present. Emphasis will be primarily on the social context within which American religions developed and secondarily on American religious thought during the period.

**REL 234** HISTORY OF CHRISTIAN WORSHIP 3  
Prerequisite: None  
This course investigates the history of Christian worship from the New Testament church to the present day. The course will concentrate on the actual experience of worship for regular churchgoers and so will pay attention to material culture, art, music and architecture as well as the social, political, philosophical and theological contexts within which Christian worship developed.

**REL 240** JEWISH RELIGIOUS TRADITIONS 3  
Prerequisite: Core religion course  
This course deals with a question that is central to all Jewish religious traditions: how do written and oral traditions combine to create the fabric of contemporary Jewish life? This question will be explored through selected Rabbinic writings and methods of Jewish Biblical interpretation, as well as distinctive Jewish religious practices and observances within the major movements in contemporary Judaism. Meets Core credit for humanities.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>REL 260</td>
<td>SHORT TERM MISSIONS</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>REL 260 explores the development, theology, and practice of international short-term, mission trips; introduces students to culture theory; and provides students with opportunities to develop skills in cross-cultural understanding and communication with particular cultures. Students will have opportunities to interview participants, organizers, and leaders in the STM field in person and/or through technology. Meets CCI credit when completing the course with the study away component and the corresponding CCI narrative.</td>
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<tr>
<td>REL 301</td>
<td>TOPICS IN RELIGION</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>An in-depth study of a particular topic in religion that is not covered in the regularly scheduled religion courses, for example, foundations for Biblical study in OT Hebrew and NT Greek, contemporary issues in political theology and selected theological themes. The course will feature frequent writing assignments and in-depth reading on the subject matter. May be repeated for credit as topics change.</td>
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<tr>
<td>REL 304</td>
<td>ADVANCED OLD TESTAMENT</td>
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<td><strong>Prerequisite:</strong> REL 106</td>
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<td></td>
<td>An in-depth study of the Hebrew Scriptures focusing on selected sections and themes. Students will conduct literary analyses of OT texts while also examining ways in which narratives of the Hebrew Bible are used to formulate Jewish and Christian theology and ethics.</td>
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<tr>
<td>REL 305</td>
<td>ADVANCED NEW TESTAMENT</td>
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<td><strong>Prerequisite:</strong> REL 106</td>
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<td></td>
<td>An in-depth study focusing on the later literature of the New Testament (from Hebrews through Revelation). Students will conduct literary analyses of NT texts while also examining how these documents provide evidence for the early Jesus traditions and other developments in the early Christian communities.</td>
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<tr>
<td>REL 307</td>
<td>WORLD RELIGIOUS TRADITIONS: EAST AND WEST</td>
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<td><strong>Prerequisite:</strong> REL 106 or REL 107</td>
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<td>An advanced inquiry into selected topics within Judaism, Islam, Hinduism and Buddhism. Special focus will be placed on primary texts (the Tanakh, the Qur'an, the Bhagavad Gita and selected Buddhist scriptures) as we examine the world views and ethical teachings that have developed in each tradition.</td>
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<tr>
<td>REL 308</td>
<td>FAITH AND SOCIETY</td>
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<td><strong>Prerequisite:</strong> REL 106, REL 107 or REL 109</td>
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<td>This course introduces students to several of the major, current topics within political theory--from liberalism's and democracy's champions and detractors, to the role of religious commitments in a pluralist society, to how the Bible is used and read differently in different political contexts, to questions of gender and post-colonialism. In addition, students will develop interpretive skills through the careful reading, analysis, and discussion of texts in contemporary political theology. Meets Core credit for humanities.</td>
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<tr>
<td>REL 311</td>
<td>YOUTH MINISTRY</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>An examination of the characteristics of contemporary youth and youth culture including an analysis of the implications of these characteristics for the church. Emphasis is placed on the practical aspects of organizing, planning, and implementing church and para-church youth ministries.</td>
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<tr>
<td>REL 340</td>
<td>RELIGION AND THE CIVIL RIGHTS MOVEMENT IN AMERICA</td>
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<td><strong>Prerequisite:</strong> Permission of instructor when offered with a required service learning (SL) component</td>
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<td>This course examines the involvement and non-involvement of churches and people of faith in the movement for civil rights in the United States. Contextualized in the History of America's racialized society, both African American and white religious responsibilities for, and responses to, social injustice are examined through the reading of autobiographies, primary documents, and secondary sources. Meets Core credit for humanities.</td>
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<tr>
<td>REL 341</td>
<td>WORLD CHRISTIANITY, CULTURE AND MISSION</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>An exploration of post-colonial Christianity and Christianity outside the cultural west through the lenses of particular cultural contexts, culture theory, and the history, theology, and practice of Christian mission. Includes practicing skills for cultural proficiency and enabling students to become citizens aware of their global responsibilities.</td>
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<tr>
<td>REL 375</td>
<td>UNDERSTANDING ISRAEL</td>
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<td><strong>Prerequisite:</strong> None</td>
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<td>A multi-disciplinary course which may be offered in conjunction with a trip to Israel that features the study of biblical geography; biblical history; the story of Christianity; Judaism and Islam in what is now the modern State of Israel; and contemporary social and political issues in Israel. Religion elective and/or Study Away/CCI. (Students who participate in the Israel trip and satisfactorily complete the CCI narrative receive CCI credit.)</td>
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<tr>
<td>REL 400</td>
<td>CHRISTIAN LITERATURE</td>
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<td><strong>Prerequisite:</strong> REL 106</td>
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<td>This course is designed to acquaint the student with the rich heritage of Christian literature. Selected writings from the theological, devotional and general literary work of Christian writers are read and discussed.</td>
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<tr>
<td>REL 401</td>
<td>SEMINAR IN CHRISTIAN ETHICS</td>
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<td><strong>Prerequisite:</strong> REL 106 or REL 109</td>
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<td>This is an advanced course in religious ethics focusing on primary source readings of Christian ethics in the 20th century from authors such as Niebuhar, Ramsey, Yoder, and Hauerwas, examining their methodologies, religious contexts, theological assumptions, and anthropological conclusions, and how these affect their affect their treatment of particular issues.</td>
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<tr>
<td>REL 404</td>
<td>SEMINAR IN CHRISTIAN THEOLOGY</td>
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<td><strong>Prerequisite:</strong> REL 106 or REL 109</td>
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<td>The careful reading and interpretation of primary source materials in Christian theology. The goals are familiarization with contemporary Christian theology and the acquisition or sharpening of research and writing skills for use in future graduate work, pastoral ministry, or independent study.</td>
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<tr>
<td>REL 450</td>
<td>SEMINARY COURSE IN BIBLICAL STUDIES</td>
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<td></td>
<td><strong>Prerequisite:</strong> 3.0 GPA minimum, junior status; Religion Department Chair approval</td>
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<td>An ATS topics course in Biblical studies which investigates sections or books of the Bible. May be repeated once for a different topic. See department chair for information.</td>
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<tr>
<td>REL 451</td>
<td>SEMINARY COURSE IN CHRISTIAN HISTORY, THEOLOGY, AND PHILOSOPHY</td>
<td>3</td>
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<td></td>
<td><strong>Prerequisite:</strong> 3.0 GPA minimum, junior status; Religion Department Chair approval</td>
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<td></td>
<td>An ATS topics course in Christian history, theology and/or philosophical studies. May be repeated once for a different topic. See department chair for information.</td>
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<tr>
<td>REL 452</td>
<td>SEMINARY COURSE IN PRACTICAL THEOLOGY</td>
<td>3</td>
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<td></td>
<td><strong>Prerequisite:</strong> 3.0 GPA minimum, junior status; Religion Department Chair approval</td>
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<td></td>
<td>An ATS topics course in Christian ministry or practical theology. May be repeated once for a different topic. See department chair for information.</td>
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<tr>
<td>REL 497</td>
<td>RELIGION THESIS SEMINAR</td>
<td>3</td>
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<td></td>
<td><strong>Prerequisite:</strong> REL 106</td>
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<td>Designed to give religion majors a guided opportunity to research and write a paper on a topic of interest in their area of concentration.</td>
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</table>
SUPPLY CHAIN MANAGEMENT (SCM)

SCM 243  PROCUREMENT  3
Prerequisite: MKT 233
This course will introduce the student to the principles of procurement. The course will focus on the purchasing process and structure as well as supplier evaluation.

SCM 316  SUPPLY CHAIN MANAGEMENT  3
Prerequisite: MATH 208, MKT 233, or MGT 240
Physical distribution management involves the integration of the purchasing, production, control, warehousing, transportation, materials handling, forecasting, ordering processing, and marketing functions in a modern business. A relatively new area of management study, physical distribution draws upon the fields of marketing, production, accounting and transportation, and the disciplines of applied mathematics, organizational behavior and economics.

SCM 350  LOGISTICS  3
Prerequisite: SCM 316
This course will introduce the student to the principles of logistics. The course will focus on information, warehousing, and transportation mode requirements necessary for the development of a comprehensive logistics system.

SCM 351  LEAN PRODUCTION AND QUALITY  3
Prerequisite: MGT 319
This course will introduce the student to the principles of lean production and quality management. The course will focus on the identification of quality requirements and lean production procedures. The student will learn the use of these techniques and procedures in the context of application to supply chain management.

SCM 431  SUPPLY CHAIN STRATEGY  3
Prerequisite: SCM 351
This course will focus on the integration of operational supply chain plans, including procurement, warehousing, inventory management, and transportation requirements, into a macro supply chain strategy that is a critical element of a total business strategic plan.

SPORT MANAGEMENT (SMG)

SMG 122  BADMINTON  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 124  BILLIARDS  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 125  BOWLING  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 147  TENNIS I  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 151  VOLLEYBALL  1
Prerequisite: None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 161  CONCEPTS OF SPORT, RECREATION, AND LEISURE  3
Prerequisite: None
A survey of the historical development of recreation and leisure and its corresponding philosophical and theoretical thought. Understanding of and ability to facilitate leisure lifestyles and use of leisure resources throughout the human life span.

SMG 168  FIELD EXPERIENCE IN SPORT I  1
Prerequisite: None
Initial experience in various leisure delivery settings at approved sites under qualified personnel. 30-60 clock hours minimum.

SMG 238  FIELD EXPERIENCE IN SPORT II  2
Prerequisite: SMG 168
Field experience in approved leisure, sport, or therapeutic recreation service delivery systems with qualified supervisor during sophomore or junior year following completion of prerequisite major courses. 60 clock hours minimum, with exposure to various sites and clientele.

SMG 255  LEADERSHIP IN SPORT  3
Prerequisite: None
An introduction to theories, approaches, and styles of leadership utilized in the recreation profession. Topics for study include decision-making strategies, motivation techniques, communication, non-verbal communication, group dynamics, diversity, trends, values, ethics, and vision.

SMG 262  FACILITIES DESIGN/EVENT MANAGEMENT IN SPORT  3
Prerequisite: SMG 161
This course examines the principles and procedures for planning, designing, operating, and maintaining the facilities, resources, and areas of leisure services. This course increases the awareness of knowledge and skills in event planning and management as applied to a variety of sport and recreational settings.

SMG 270  INTRODUCTION TO TOURISM  3
Prerequisite: None
An introduction to the various facets of tourism and the tourism industry. The relationships among psychological, sociological, anthropological economic and environmental issues associated with tourism will be examined.

SMG 310  CURRENT TRENDS IN SPORT  3
Prerequisite: Sophomore status
The purpose of this course is for students to learn about current trends related to the management and operation of resort, private club properties, sport and recreational values. This course will be a project-based course which will encourage students to study and explore the historical development, economic influence and demographic impact of these various venues. Topics will include private club and resort management, sport and recreational management, customer service, advertising, outdoor programming, and diversity implications.
SMG 313 OUTDOOR PROGRAMMING 3
Prerequisite: None
The role of outdoor education and recreation in today's society; functions and policies, current issues, development of outdoor education programs and adventure challenge activities.

SMG 329 LEGAL ASPECTS 3
Prerequisite: SMG 161 or ATR 165
Course covers the different types of laws that affect the fields of recreation, therapeutic recreation, athletics and sport in the areas of facility supervision, tort law, professional regulations, risk management, liability, negligence, contract law, constitutional law, trademark laws, Title IX and others.

SMG 360 RESEARCH IN SPORT 3
Prerequisite: MATH 208
This course includes the investigation of current issues and research in sport management. It also incorporates using computer applications such as SPSS software to analyze research data and business statistics.

SMG 370 INTERNATIONAL TOURISM 3
Prerequisite: None
This course introduces students to the field of international tourism from the political, social, environmental, cultural, and applied (business) perspectives. The course is designed to incorporate both lecture and seminar learning.

SMG 404 PSYCHOLOGY OF SPORT AND COACHING 3
Prerequisite: ATR 165 or SMG 161; PSYC 101 recommended
Acquaints the student with the wide realm of sports in modern society. A discussion of general psychological factors which characterize sports, such as personality of the athlete, personality of the coach, motivation, emotion, aggression, and social factors which are unique in sports and coaching.

SMG 405 MANAGEMENT OF SPORT 3
Prerequisite: MGT 240
Analysis of administration philosophy, standards, policies and procedures in the sport industry.

SMG 408 ETHICS AND SOCIAL ISSUES IN SPORT AND PHYSICAL ACTIVITY 3
Prerequisite: SMG 161
An exploration of the changing concepts of the sport sciences over time. The student is given the opportunity to apply philosophical, historical and sociological foundations to practical issues in sport and physical activity. The focus on current issues and their development is a central component of this course.

SMG 415 SPORT MARKETING 3
Prerequisite: MKT 233
This course provides basic principles of marketing and the nuances of such applied to the managed sport industry (i.e., intercollegiate athletics, youth sports, professional sport, recreation, fitness, multi-sport club operations, etc.) Students will examine and utilize basic marketing principles in the domain of sport. Topics will include sport products and services, marketing strategies, consumer behavior, research and information management, promotions, targeting, segmenting, positioning, and sponsorship.

SMG 420 GOVERNANCE & POLICY IN SPORT ORGANIZATIONS 3
Prerequisite: SMG 161
An examination of sport organizations focused on both professional and amateur governance structures and processes. The study of policy in educational, non-profit and professional sport venues will also be addressed.

SMG 430 FINANCIAL PRINCIPLES IN SPORT 3
Prerequisite: SMG 161, ACCT 201, ECON 232
This course examines the monetary aspects of the sport industry. Applications are made industry-wide and to specific sport organizations.

SMG 435 GLOBAL PERSPECTIVES IN SPORT 3
Prerequisite: None
An interdisciplinary examination of sport as a global phenomenon. Historical, cultural, economic, and governance perspectives will be considered.

SMG 440 PROFESSIONAL SEMINAR: SPORT LEADERSHIP 3
Prerequisite: Permission
Professional trends and issues including legislation, laws, credentialing, accreditation, ethical and social issues, regulations, advocacy, and changes in management and health care.

SMG 450 INTERNSHIP IN SPORT 6
Prerequisite: Permission
A full-time, 12-week, 480-hour experience in an approved sport recreation and/or leisure agency setting under the direction of a qualified university supervisor.

SOC 111 PRINCIPLES OF SOCIOLOGY 3
Prerequisite: None
The focus of this course is centered on an in-depth examination of social forces and their impact on social structure, sociocultural evolution and the socialization process. The theoretical perspectives, concepts, and principles of sociology are then applied to various areas of sociology such as social organization, culture, social structure, social interaction, social stratification, social inequality, social deviance and social institutions. Meets core credit for social sciences.

SOC 202 ALCOHOLISM AND SUBSTANCE ABUSE 3
Prerequisite: None
This course is designed to give a general overview of the role and extent of the alcohol/chemical use abuse, and dependency in our society. Areas to be discussed include examining our personal and societal attitudes, defining and understanding the stages of addiction, gaining specific expertise in intervention and helping techniques, looking at the problem of DWI in our country and studying the impact of chemical dependency on the family members and significant others.

SOC 223 SOCIOLOGY OF AGING 3
Prerequisite: None
Course will examine the societal aspects of aging: the meaning and consequences of aging; cultural and ethnic issues; and the interaction of the aging with political, economic, and other social phenomena. Course focus begins at the later stage of middle adulthood, and progresses through older adulthood.

SOC 225 CONTEMPORARY SOCIAL PROBLEMS 3
Prerequisite: SOC 111
An in-depth study of selected social problems, emphasizing major theoretical approaches to understanding problem situations. Particular attention is given to diversity and oppression as they impact on life in contemporary America.

SOC 242 CRIMINOLOGY 3
Prerequisite: See CJ 242 for course information

SOC 244 JUVENILE DELINQUENCY 3
Prerequisite: See CJ 244 for course information
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 275</td>
<td>GANGS AND CULTS</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
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<tr>
<td>Examinesthe historical and contemporary issue of gangs and cults in the United States and focuses on gang-and-cult recruitment, subculture, beliefs, activities, signs, and symbols. CJ/SOC credit.</td>
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<tr>
<td>SOC 301</td>
<td>RACE ETHNIC AND MINORITY ISSUES</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
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<tr>
<td>The course will examine the interaction between the dominant and minority cultures particularly within the United States. Students will be introduced to a transnational perspective; exploring groups who have immigrated to the United States, but share a set of cultural values shaped by their homeland, especially in the areas of human interaction, social expectations, economics, religious and political movements. The concept of culture will be discussed in terms of both the majority culture, which provides the social framework that encourages assimilation and fusion, and the minority sub-culture that strives and struggles to maintain a sense of identity. The consequences of living in a multi-ethnic, multi-faith, and multi-cultural society will also be studied. Meets Core credit for social sciences.</td>
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<tr>
<td>SOC 305</td>
<td>SOCIAL PSYCHOLOGY</td>
<td>3</td>
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<tr>
<td>Prerequisite: See PSYC 305 for course information</td>
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<tr>
<td>SOC 307</td>
<td>VICTIMOLOGY</td>
<td>3</td>
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<tr>
<td>Prerequisite: See CJ 307 for course information</td>
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<tr>
<td>SOC 330</td>
<td>TOPICS IN SOCIOLOGY</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
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<tr>
<td>A concentrated analysis of social institutions in specialized areas. Topics include politics, education, religion, sports, medicine, collective behavior, etc. On demand, repeatable to a maximum of nine semester hours</td>
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<tr>
<td>SOC 340</td>
<td>MARRIAGE AND FAMILY RELATIONSHIPS</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
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<tr>
<td>This course explores the similarities and differences among families and marriages, family structures and functions, changes throughout the family life cycle, and the history of marriage and family in American culture. Critical topics in the area of marriage and family relationship, including events and attitudes leading to the formation of family units (defining love, dating, pairing up, cohabitation, marriage); problems and experiences arising from the institution of the family (gender roles, conflict, parenting, work/life balance, divorce, remarriage); and development of a philosophy regarding marriage and family life will be explored. Meets Core credit for social sciences.</td>
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<tr>
<td>SOC 352</td>
<td>SOCIAL DEVIANCE</td>
<td>3</td>
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<tr>
<td>Prerequisite: SOC 111</td>
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<tr>
<td>The systematic and objective study of human behavior and phenomena that conventional society has labeled different, rule-breaking and norm-violating.</td>
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<tr>
<td>SOC 355</td>
<td>HUMAN SUXUALITY</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
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<tr>
<td>An examination of such topics as sexual potential and development, reproduction, psychosexual factors, values, morality, sexual variables, social influences, sexual problems, sexual diseases, love, sexual expression, and the role of the schools, mass media, the arts, professional preparation programs, education, and the family in sex education.</td>
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<tr>
<td>SOC 415</td>
<td>ADVANCED CRIMINOLOGY AND PROFILING</td>
<td>3</td>
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<tr>
<td>Prerequisite: See CJ 415 for course description.</td>
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<tr>
<td>SOC 460</td>
<td>RESEARCH METHODS IN SOCIAL SCIENCE</td>
<td>3</td>
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<tr>
<td>Prerequisite: MATH 208, SOC 111; senior status</td>
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<tr>
<td>An introduction to methodological techniques of research in the social sciences. Emphasis is placed on quantitative and qualitative research methodologies as they relate to building knowledge for practice and to evaluating service delivery in all areas of practice. Research ethics, analysis and evaluation of theoretical bases, research questions, analysis of data, and use of technology are covered. SOC/SOCWK credit.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>SOCWK 306</td>
<td>SOCIAL ENVIRONMENT AND HUMAN BEHAVIOR</td>
<td>3</td>
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<tr>
<td>Prerequisite: SOCWK 304, SOC 301 or co-requisite</td>
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<tr>
<td>A continuation of the study of individual interaction with the social environment, particularly with larger systems such as organizations and rural and urban communities. Students learn the dynamics of oppression and the effects of oppression on the social and economic circumstances of members of diverse and at risk populations.</td>
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</table>

| SOCWK 310   | SOCIAL WORK PRACTICE I                           | 3       |
| Prerequisite: SOCWK 221 |
| This course is designed to provide students with a generalist approach to social work practice and basic knowledge of social work methods. Areas of study include social work values and ethics, problem-solving, the client worker relationship, interviewing and relationship-building skills, group process and professional writing. For social work majors only. |

| SOCWK 312   | SOCIAL WORK PRACTICE II                          | 3       |
| Prerequisite: SOCWK 304, SOCWK 310, a grade of C or better in SOCWK 310 |
| Continues the generalist approach to social work practice. Students learn the social work process, along with interviewing skill refinement, and the processes and skills involved in working with families. Attention is given to differential assessment and intervention skills that will enable practitioners to serve diverse populations and practice competently across rural and urban settings. |

| SOCWK 320   | TOPICS IN SOCIAL WORK                            | 3       |
| Prerequisite: None |
| A focused study of a particular area of social work practice, including assessment of problem situations and helping efforts directed at remediating problems. Topics include case management, women's issues, working with children, and others. Course can be repeated as topics change. |

| SOCWK 323   | LATER ADULTHOOD IN THE FAMILY CONTEXT           | 3       |
| Prerequisite: None |
| The study of later adulthood, focusing on relationships, kinship ties, living arrangements, and financial issues within the family context. The course will examine the reciprocal effects of decision-making and caring for an aging adult on the individual and the family. |

| SOCWK 324   | WORKING WITH OLDER ADULTS                        | 3       |
| Prerequisite: None |
| This course provides a comprehensive approach to working with older adults. Areas of study include the ethical basis for practice, forming and maintaining the working relationship, interviewing skills, problem-solving with assessment and intervention skills, professional writing, and knowledge of relevant social policy. |

| SOCWK 330   | INTERNATIONAL PERSPECTIVES ON WOMEN              | 3       |
| Prerequisite: None |
| This course focuses on women's issues from an international perspective and addresses the diversity and similarity of women's experiences worldwide. It considers the scope of gender injustice and the variety of factors (e.g. social, economic, political, religious) that contribute to it. The course examines current cross-cultural attitudes toward the family, women's work, and women's status and explores international gender equality movements and women's rights as human rights. |

| SOCWK 350   | DEATH AND DYING                                  | 3       |
| Prerequisite: None |
| This course explores concepts related to death and dying, death perceptions from childhood through older adulthood, social and cultural attitudes, insights into the needs of the dying person and family, one's own beliefs and feelings toward the death of others and self, and the ethical aspects surrounding death. The student will study current theories and practices related to death and dying from the standpoint of developmental and systems theories, and social and cultural attitudes and practices. Meets Core credit for social sciences. |

| SOCWK 408   | SOCIAL POLICY DEVELOPMENT AND ANALYSIS           | 3       |
| Prerequisite: SOCWK 221, SOCWK 250, and senior status |
| A continuing examination of social welfare policy, with emphases on current policy, policy analysis, and skills for influencing policy development. Students are exposed to theoretical frameworks and acquire practical skills in policy analysis and are introduced to theories and skills of influencing for change. |

| SOCWK 412   | SOCIAL WORK COMMUNITY PRACTICE                   | 3       |
| Prerequisite: SOCWK 306, SOCWK 312, SOC 225 (or co-requisite); a grade of C or better in SOCWK 312 |
| This course focuses on the theories and strategies that allow a generalist social worker to recognize and act on the need for change in larger systems such as organizations, communities, and societal institutions in order to ensure that human and civil rights are protected, that resources are equitably distributed, add that opportunities are available to all. |

| SOCWK 417   | PRE-PRACTICUM SEMINAR                           | 1       |
| Prerequisite: SOCWK 306, SOCWK 312; Co-requisites SOCWK 408, SOCWK 412 |
| This course is designed to prepare students for beginning professional entry-level generalist practice. This course will review issues related to agency based work environments and service delivery in a generalist framework, discuss current issues in the field, and focus on the professional use of self. The course covers ethical practice documentation, supervision, and the development of a learning contract The process of arranging the field practicum (SOCWK 418 Field Instruction) for the subsequent spring semester takes place as part of this course. Graded S/U. |

| SOCWK 418   | FIELD INSTRUCTION                               | 12      |
| Prerequisite: All SOCWK academic courses with a minimum of 2.25 GPA; a grade of C or better in SOCWK 412 co-requisite SOCWK 419 |
| Field instruction is an integral part of the social work curriculum and takes place during the last semester of the senior year. Field Instruction gives students an intensive opportunity to apply social work knowledge, values, and skills in practice situations in a social agency under the supervision of a social worker. Students practice within the generalist framework with individuals, families, groups, organizations and communities and spend 36 hours a week in the agency (a minimum total of 500 hours). |

| SOCWK 419   | FIELD SEMINAR                                   | 3       |
| Prerequisite: SOCWK 417; co-requisite SOCWK 418 |
| A problem-solving seminar taken concurrently with Field Instruction in which students examine the social work knowledge base, practice skills, values, and policies as they relate to their experience in agencies. The seminar is designed to support and build upon agency experiences. As a part of the seminar, students complete the Montana Social Work Competence Written and Oral Examination. |

| SOCWK 460   | RESEARCH METHODS IN SOCIAL SCIENCE              | 3       |
| Prerequisite: MATH 208, SOC 111 |
| An introduction to methodological techniques of research in the social sciences. Emphasis is placed on quantitative and qualitative research methodologies as they relate to building knowledge for practice and to evaluating service delivery in all areas of practice. Research ethics, analysis and evaluation of theoretical bases, research questions, analysis of development. Students are exposed to theoretical frameworks and acquire data, and use of technology are covered. SOC/SOCWK credit. |

| SPAN 171    | ELEMENTARY SPANISH I                            | 3       |
| Prerequisite: Placement or no prior study of Spanish. Note: Not open to students who placed in other levels. |
| Introduction to Spanish language and culture with practice in the basic skills of the language. Lab work required. Taught in Spanish. Offered annually. Meets Core credit for CCI. |

| SPANISH (SPAN) |
SPAN 172 ELEMENTARY SPANISH II 3
Prerequisite: SPAN 171, placement or transfer equivalent. Note: Not open to students who placed in other levels.
A continuation of SPAN 171. Taught in Spanish. Offered annually. Meets Core credit for CCI.

SPAN 200 INTERMEDIATE LEVEL INTENSIVE SPANISH STUDY ABROAD 3
Prerequisite: SPAN 172, placement or transfer equivalent. Note: Not open to students who placed in other levels.
A program designed to provide students with an intermediate-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host cultures. Orientation and debriefing sessions on campus are required. 6 hours, or 3 hours plus SPAN 271. Meets the CCI requirement.

SPAN 271 INTERMEDIATE SPANISH I 3
Prerequisite: SPAN 172, placement or transfer equivalent. Note: Not open to students who placed in other levels.
A course designed to increase the student's understanding of the language by building on the skills learned in the elementary course. Lab work required. Taught in Spanish. Offered annually. Meets Core Credit for CCI

SPAN 272 INTERMEDIATE SPANISH II 3
Prerequisite: SPAN 271, placement or transfer equivalent. Note: Not open to students who placed in other levels.
A continuation of SPAN 271. Lab work required. Taught in Spanish. Offered annually. Meets Core Credit for CCI.

SPAN 300 ADVANCED LEVEL INTENSIVE SPANISH STUDY ABROAD 3
Prerequisite: SPAN 272, placement or transfer equivalent. Note: Not open to students who placed in other levels.
A program designed to provide students with an advanced-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host cultures. Orientation and debriefing sessions on campus are required. Meets Core Credit for CCI.

SPAN 307 SPANISH PHONETICS 3
Prerequisite: SPAN 272 or equivalent
A course designed to provide a review of Spanish pronunciation and an introduction to phonetics and phonology, including the study of features of principal dialects and a contrastive analysis of Spanish and English sound systems. Language lab required. Taught in Spanish. Offered alternate years. Meets Core Credit for CCI.

SPAN 310 SPANISH GRAMMAR AND COMPOSITION 3
Prerequisite: SPAN 272 or equivalent
The course offers an intensive review and expansion of grammar and vocabulary. Students will apply the material studied and develop their written expression in Spanish through a writing and revising process that leads to portfolio assessment. Taught in Spanish. Offered annually. Meets Core Credit for CCI.

SPAN 311 CIVILIZATION OF SPAIN 3
Prerequisite: SPAN 310
In order to understand contemporary Spanish identity, this course explores and analyzes current issues, cultural manifestations, historical and geopolitical developments, and internal and external relations. The social organization and forces of Spain from ancient times to the present are examined with an emphasis on contemporary Spain. Taught in Spanish. Offered alternate years. Meets core credit for CCI.

SPAN 312 CIVILIZATION OF LATIN AMERICA 3
Prerequisite: SPAN 310
In order to understand contemporary Latin American identity, this course explores and analyzes current issues, cultural manifestations, historical and geopolitical developments, and internal and external relations. The social organization and forces of Latin America from ancient times to the present are examined with an emphasis on contemporary Spain. Taught in Spanish. Offered alternate years. Meets core credit for CCI.

SPAN 371 INTRODUCTION TO SPANISH LITERARY STUDIES 3
Prerequisite: SPAN 310, SPAN 311, or SPAN 312
Introduction to the analysis of Spanish literary texts, including poetry, drama, fiction and essay. Reading selections will include authors from both Spain and Latin America. Taught in Spanish. Offered infrequently. Meets Core Credit for CCI.

SPAN 372 SURVEY OF SPANISH LITERATURE 3
Prerequisite: SPAN 310
A survey of the milestones of Spanish literature, from its beginnings to the present time. Taught in Spanish. Offered alternate years. Meets core credit for humanities.

SPAN 373 SURVEY OF LATIN AMERICAN LITERATURE 3
Prerequisite: SPAN 310
A survey of the milestones of Latin American literature, from its beginnings to the present time. Taught in Spanish. Offered alternate years. Meets core credit for humanities.

SPAN 377 CONVERSATIONAL SPANISH I 3
Prerequisite: SPAN 272 or equivalent
Designed to provide the student with an opportunity to apply the grammatical concepts learned in the basic language program and to improve conversational fluency through oral exercises, discussions, and activities related to everyday situations. Taught in Spanish. Offered alternate years. Meets core credit for CCI.

SPAN 378 CONVERSATIONAL SPANISH FOR THE PROFESSIONS 3
Prerequisite: SPAN 272 or equivalent
A project based course designed to provide the student with an opportunity to apply the grammatical concepts learned in the basic language program and to improve conversational fluency through oral exercises, discussions, and activities related to the profession of the individual student's intended major. Taught in Spanish. Offered annually. Meets Core Credit for CCI.

SPAN 381 PK-8 EDUCATION ABROAD 2
Prerequisite: SPAN 300, SPAN 310; study abroad eligibility criteria.
A course designed to increase the student's understanding of early childhood education in a Spanish-speaking country by providing in-class cultural and linguistic instruction as well as field experiences in elementary schools. Taught in Spanish. Required for early childhood education Spanish minor. Offered annually.

SPAN 476 SEMINAR IN HISPANIC STUDIES 3
Prerequisite: SPAN 311 or SPAN 312; SPAN 372 or SPAN 373
A seminar on topics pertinent to the field of Hispanic studies in language, culture, civilization or literature. The content will vary depending upon the interest and needs of students. The course may be repeated for a total of 6 hours. Taught in Spanish. Topics will vary or alternate each year. Offered annually.

SPAN 477 ADVANCED CONVERSATION AND COMPOSITION 3
Prerequisite: SPAN 310
A course designed for students to practice speaking Spanish, build specialized vocabulary necessary for communication, reinforce complex syntactic structures, and improve writing skills. Taught in Spanish. Offered infrequently.

THEATRE (TH)

TH 100 THEATRE PRACTICUM 0
Prerequisite: None
This is a studio course for students participating in Theatre Department productions directed by faculty or guest artists. Students participate in one of three areas as: a) performers, b) run crew/designers and c) managers. May be repeated.
TH 105  PERFORMANCE STUDIES  3
Prerequisite: See COM 105 for course information.

TH 109  STAGE MOVEMENT AND DANCE I  1
Prerequisite: None
An introduction to and development of movement and dance skills for the theatre. In progressive semesters different dance styles will be taught, including ballet, jazz, tap and modern. May be repeated once.

TH 110  STAGE MOVEMENT AND DANCE II  1
Prerequisite: TH 109
This course presents further study in movement and dance skills for the theatre. Students will take one ballet, one jazz and one tap class per week in a professional dance studio. May be repeated once.

TH 150  THEATRE PRODUCTION LABORATORY  1
Prerequisite: None
This is a laboratory course for students gaining practical experience while working on theatre department productions directed by faculty or guest artists. There are six laboratory areas: costume construction, lighting, scene painting, properties, scenic construction, and publicity. May be repeated.

TH 203  THEATRE AESTHETICS  3
Prerequisite: None
Students will examine ways in which theatre art and theatre artists suggest meaning and invite interpretation of the human experience. Critical standards and theories specific to theatre will be discussed and then applied to the study of selected play scripts and performances. Meets Core credit for aesthetics.

TH 204  SCRIPT ANALYSIS  3
Prerequisite: None
This course introduces students to methods of script analysis or how to read a play. Analysis will focus on dramatic structure, content and meaning from a theatrical point of view and will be based on principles established by Aristotle in the Poetics. Methods of script analysis will be discussed and applied to representative play scripts. Meets Core credit for aesthetics.

TH 205  VOICE AND ARTICULATION  3
Prerequisite: None
The study of correct sound production focusing on the precise shaping of the vocal sound. Emphasis on articulation and standard speech exercises incorporating the use of phonetics and one of the accepted methods of vocal production theory.

TH 206  INTRODUCTION TO TECHNICAL THEATRE  3
Prerequisite: None
The course is an interactive introduction to the many techniques of technical theatre and theatre operations. It covers basic scenic construction, costume construction, technical aspects of lighting and properties building techniques.

TH 207  THE VISUAL ART OF THEATRE  3
Prerequisite: None
The course offers the opportunity to learn, develop and practice the art of set, costume and lighting design. Students are required to critically analyze all visual and other sensory aspects of a live production. The course concentrates specifically on the processes, skills and disciplines of design for performance - the handling of forms, textures and colors in real, fictional and metaphorical spaces. Students will read several play scripts and work to discover the metaphors within. They will examine ways in which theatre design can suggest meaning and interpretation of the script. Meets Core credit for aesthetics.

TH 208  VOCAL EXPRESSION OF LITERATURE  3
Prerequisite: None
The study and interpretation of literature through oral performance. Emphasis on vocal and body technique, textual analysis and the communication of various literary art forms expressing their intellectual, emotional and aesthetic qualities through oral performance. Meets Core credit for aesthetics.

TH 209  STAGE MOVEMENT & DANCE III  1
Prerequisite: TH 110
Ballet concentration, offering intensive training for the advanced student. Classroom performance, demonstration of knowledge of ballet vocabulary, and advancement of ballet skills are stressed. May be repeated once.

TH 210  STAGE MOVEMENT & DANCE IV  1
Prerequisite: TH 209
Tap concentration class. Grade is determined by demonstration of knowledge of tap vocabulary and advancement of tap skills. May be repeated once.

TH 211  BASIC ACTING TECHNIQUE  3
Prerequisite: For Theatre majors and minors only
A study of the actor's craft with strong emphasis on physicalization. Students will discover the importance of physicalization to the acting process through the practice and performance of realistic pantomimes, improvisations, and theatre games. Beginning vocal technique, character analysis and process performance of modern realistic monologues will also be incorporated.

TH 212  BUILDING ACTING TECHNIQUE  3
Prerequisite: None
A continuation of Basic Acting Technique beginning with deconstructing the process performance monologue in a moment to moment exercise. Exercises in advanced vocal and physical technique will also be employed. Students will be introduced to armed stage combat technique and beginning scene study.

TH 214  ACTING FOR NON-MAJORS  3
Prerequisite: None
This course is a study of acting as an art form. It emphasizes an acting process and skills utilized by the beginning actor. The approach to acting is grounded in contemporary acting theory and practice. Meets Core credit for aesthetics.

TH 222  STAGE MAKE-UP  3
Prerequisite: None
The study of stage make-up, its application and its relationship to developing a character. Emphasis on traditional painting techniques, but with exploration of some prosthetic building and use of crepe hair, spirit gum, latex and wigs.

TH 303  AMERICAN MUSICAL THEATRE  3
Prerequisite: None
This course is an exploration of the development of the Broadway musical during the twentieth century. Representative musicals will be examined in terms of style, elements, and structure in order to identify criteria for aesthetic evaluation. The contributions of the major musical theatre artists and practitioners of the 20th century will be discussed as they relate to the evolution of this uniquely American theatrical form. Meets Core credit for aesthetics.

TH 305  TOPICS IN PERFORMANCE  3
Prerequisite: None
This course will examine various topics relating to theatre performance. Repeatable with different topics, but only three hours count toward the major.

TH 306  TOPICS IN THEATRE DESIGN  3
Prerequisite: None
This course will examine various topics relating to theatre design and technology. Repeatable with different topics, but only three hours count toward the major.

TH 309  STAGE MOVEMENT & DANCE V  3
Prerequisite: TH 209
Jazz concentration. Grading is based on knowledge of jazz vocabulary
and advancement of jazz skills. May be repeated once.

TH 313 SCENE STUDY 3
Prerequisite: TH 212
Students will explore various approaches to acting using scenes from representative plays. Approaches include: performing actions with a character's psychological intention; playing episodes and applying episodic techniques; building images and using vocal and physical masks; playing the rules in the world of the play; point of view in storytelling and soliloquies; and combinations of episode, event, image and illusion techniques.

TH 314 ACTING THEORY AND ADVANCED SCENE STUDY 3
Prerequisite: TH 211
An advanced acting laboratory that combines approaches to scene work with continual study in acting theory. In addition to acting scenes, students will engage in research and study of important representative acting theorists and practitioners.

TH 316 ADVANCED SCENE DESIGN 3
Prerequisite: TH 206, TH 207
Students will explore alternative methods and media of presentational matter. Students will be asked to design in a variety of styles based upon the careful reading of plays. This course will also focus on the problems of designer/director communication in both verbal and written forms. May be repeated for up to 9 hours credit.

TH 317 ADVANCED LIGHTING DESIGN 3-9
Prerequisite: TH 206, TH 207
Students will explore methods of lighting for productions other than theatre, such as dance, opera and musical concert. This course will also focus on the problems of designer/director communication in both verbal and written form. Lab hours required. May be repeated for up to 9 hours credit.

TH 321 THEATRE AND ARTS MANAGEMENT 3
Prerequisite: None
A study of theatre and arts management principles and techniques. Attention will be given to each of the major functions of the theatre or arts manager, including organization, budget preparation, publicity, box office operation and fund raising. The students will apply these techniques in a final project and will assist in actual managerial tasks.

TH 322 ADVANCED COSTUME DESIGN 3-9
Prerequisite: TH 206, TH 207
This course will guide the student through the steps required to design the costumes for a variety of plays, based upon the careful reading and analysis of a number of scripts. Continued practice in drawing and rendering techniques will be stressed. May be repeated for up to 9 hours.

TH 325 THEATRICAL DESIGN SEMINAR 3
Prerequisite: TH 316 OR TH 317 or TH 322
An in-depth study of trends and standard practices in theatrical design. Students create and develop a complete design package for a theatrical performance, producing the appropriate renderings, models, and paper work for the project. The materials generated are included in their portfolios. Emphasis is placed on advanced visual analysis of the play, presentation of the projects, and artistic skills. Repeatable up to 9 hours, but only three hours count toward the major.

TH 404 MODERN DRAMATIC STYLES 3
Prerequisite: TH 204; 2 from TH 418, 419, 420
How have the events of the 20th century influenced drama and performance? How have theatre artists responded to the events of the 20th century? The social, cultural, political, and technological events of the 20th century have inspired numerous styles and movements in theatre. This course examines the drama, performance styles and theories for the early Modern Period through the present.

TH 405 MUSICAL THEATRE PERFORMANCE 3
Prerequisite: TH 211, MUSIC 212, 2 semesters of MUSIC 140
A workshop course in which students examine the craft and technique of acting a song. Students will prepare musical theatre selections and create an audition portfolio. Healthy vocal performance habits and physicalization are discussed. Various methods of analysis are used for the interpretation of songs from the musical theatre.

TH 410 STAGE MOVEMENT & DANCE VI 1
Prerequisite: TH 209
Capstone of the series and stresses the performance aspect. Students continue to take one ballet class per week and one dance class of their choice per week. The student must participate in a dance concert either as a dancer or as a choreographer. This requirement is arranged as the student reaches the proper level of training and the particular form of the assessment will be reached in consultation with the faculty. May be repeated once.

TH 411-412 DIRECTING I AND II 3-3
Prerequisite: TH 211 or TH 212; TH 411 must precede 412
A study of the functions of the director as an administrator, interpreter and artist. Attention will be given to the director's relationship with the playwright, the actor, the technical staff and audience. During the second semester, each student will select, cast and direct a one-act play for workshop performance.

TH 418-420 HISTORY OF THEATRE I-II-III 3
Prerequisite: TH 204
A survey of the periods, practices and theories of the theatre. First semester covers ancient Greeks to the Elizabethan Period. Second semester covers the Elizabethan to end of the nineteenth century. Third semester covers Modern Drama to the present day.

TH 425 STAGE MANAGEMENT 3
Prerequisite: None
This course is an investigation of the role of the stage manager in the theatrical production. Students will explore all of the organizational and communication skills needed to excel in this position. Course will culminate in both a written and practical exercise of skills.

TH 499 SENIOR PROJECT 3
Prerequisite: Senior standing, approval of advisor, and prior approval of a prospectus by faculty one semester in advance of registration
An activity that integrates the student's theatrical experiences and studies at A.U. The project should be of great interest to the student and should provide sufficient depth and rigor to help guide the student to the next professional or academic step. The student conceives, creates, and presents theoretical or executed theatrical productions as part of the requirements for graduation.