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 MATH 220 Calculus II  
 The B.S. degree in chemistry is certified by the American Chemical Society.

\*NOTE: HONS 157/158 may be substituted for PHYS 111/112.

### Chemistry Major (B.A.)

Degree: Bachelor of Arts

Major Hours: 32

#### Major Requirements:

##### (liberal arts major)

CHEM 111/111L Principles of Chemistry (with laboratory)  
 CHEM 112/112L Principles of Chemistry (with laboratory) **or**  
 HONS 191/191L Honors Chemical Principles (with laboratory)

**and**

HONS 294/294L Honors Chemical Principles (with laboratory)  
 CHEM 221 Quantitative Analysis (with laboratory)  
 CHEM 231/231L Organic Chemistry (with laboratory)  
 CHEM 232/232L Organic Chemistry (with laboratory) **or**  
 HONS 192/192L Honors Organic Chemistry

**and**

HONS 293/293L Honors Organic Chemistry  
 CHEM 341/341L Physical Chemistry (with laboratory)  
 CHEM 342/342L Physical Chemistry (with laboratory)  
 CHEM 492 Senior Seminar

Elective: one three-hour course at the 300 level or above, exclusive of CHEM 583.

### Chemistry and Biochemistry Teacher Education Program (Grades 9–12)

After declaration of a major in chemistry, students interested in teacher certification must meet with the director of certification and clinical practice, School of Education, Health, and Human Performance, 953-5613. Students must take EDFS 201 during their sophomore year and apply for acceptance into this program no later than the second semester of their sophomore year. Requirements include admission to and successful completion of the approved teacher education program.

Specific general education, teacher education program, and content major requirements can be found at <http://www.cofc.edu/schoolofeducation/EDFS/>.

### Biochemistry Major

Degree: Bachelor of Science

Major Hours: 72

#### Major Requirements:

##### Chemistry requirements: 40 hours

CHEM 111/111L Principles of Chemistry (with laboratory)  
 CHEM 112/112L Principles of Chemistry (with laboratory) **or**  
 HONS 191/191L Honors Chemical Principles (with laboratory)

**and**

HONS 294/294L Honors Chemical Principles (with laboratory)  
 CHEM 221 Quantitative Analysis (with laboratory)  
 CHEM 231/231L Organic Chemistry (with laboratory)  
 CHEM 232/232L Organic Chemistry (with laboratory) **or**  
 HONS 192/192L Honors Organic Chemistry

**and**

HONS 293/293L Honors Organic Chemistry  
 CHEM 341/341L Physical Chemistry (with laboratory)  
 CHEM 342/342L Physical Chemistry (with laboratory)  
 CHEM 351 Biochemistry  
 CHEM 352 Biochemistry II  
 CHEM 354L Biochemistry Laboratory  
 CHEM 490 Chemistry and Biochemistry Seminar  
 CHEM 492 Senior Seminar  
 CHEM 511 Advanced Inorganic Chemistry

#### Biology requirements: 16 hours

BIOL 111/111L Introduction to Cell and Molecular Biology (with laboratory)\*  
 BIOL 112/112L Evolution, Form, and Function of Organisms (with laboratory)\*  
 BIOL 312/312L Molecular Biology (with laboratory)

#### Four hours in advanced laboratory courses selected from:

BIOL 305/305L Genetics (with laboratory)  
 BIOL 310 General Microbiology (with laboratory)  
 BIOL 313/313L Cell Biology (with laboratory)  
 BIOL 321 General and Comparative Physiology (with laboratory)

#### Additional requirements: 12 hours

PHYS 111

**and**

PHYS 112 General Physics (with laboratory)\*  
 MATH 220 Calculus II

NOTE: The degree in biochemistry is certified by the American Chemical Society.

\*NOTE: HONS 151/152 may be substituted for BIOL 111/112 and HONS 157/158 for PHYS 111/112 and associated laboratories.

### Chemistry and Biochemistry Minor

#### Chemistry Minor

Minor Hours: 23

#### Minor Requirements:

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.  
 15 hours beyond CHEM 112/112L are required.

CHEM 221/221L Quantitative Analysis (with laboratory)  
 CHEM 231/231L, Organic Chemistry (with laboratory) **or**  
 232/232L  
 CHEM 341/341L, Physical Chemistry (with laboratory)  
 342/342L

Electives: three hours at the 300 level or above

**OR**

7 hours beyond CHEM 294/294L are required.

CHEM 221/221L Quantitative Analysis (with laboratory)

Electives: three hours at the 300 level or above

## Computer Science

Phone: 843-953-6905

**Christopher W. Starr, Chair**

### Faculty

Bill Manaris, Renée McCauley, George J. Pothering, *Professors*Paul A. Buhler, Anthony P. Leclerc, Christopher W. Starr,  
*Associate Professors*Paul Anderson and Jim Bowering, *Assistant Professors*Gerard J. Boetje, Christine L. Moore, Roxann H. Stalvey, *Senior Instructors*

### About the Department

Computer science is more than writing code and building robots. It is the blending of computational principles and human creativity with the application of computing technologies. Since its inception, computer science has revolutionized the way we compute, communicate, find information, and conduct business. Problem solving and logical reasoning are at the core of computer science, making it one of the most pervasive areas of study.

The demand for graduates well-versed in computing is expected to grow as society becomes more technologically advanced. Increasingly, computer science graduates are able to use the skills they've learned to pursue careers in various disciplines such as medicine, social sciences, humanities, law, education, and physical and life sciences.

In the computer science department, you will be challenged and supported by excellent faculty who are focused on preparing you for a successful future. We pride ourselves on our small class sizes, individual attention, and our focus on undergraduate education. Interdisciplinary connections and applications are emphasized in our computer science programs for non-majors, keeping with the liberal arts tradition at the College of Charleston. At the same time, we provide a sound foundation for those students who major in computer science and opt to either work in industry or pursue advanced degrees.

The **bachelor of science in computer science** is designed to prepare students for graduate study in computer science or for professional careers, especially in the computer industry.

*NOTE: The bachelor of science in computer science program is accredited by the Computing Accreditation Commission of ABET.*

The **bachelor of science in computer information systems** is designed to prepare students for computing positions in business and industry while keeping open the option for continuing study in graduate school.

The **bachelor of arts in computer science** is designed to provide students with solid foundations in the fundamental areas of computer science, but permits a greater variety of elective courses to be taken outside of the discipline than do the other two degree programs.

The **bachelor of arts in computing in the arts (CITA)** is designed to offer students an interdisciplinary experience in computer science and the arts, with concentrations in music, theatre, and visual arts. CITA combines creativity, problem solving, and computational thinking to prepare students for graduate school or for careers in the information and arts industries."

There are three minor programs in computer science, one intended primarily for business majors and two for all other majors.

## Computer Science Majors

### Computer Science Major (B.S.)

Degree: Bachelor of Science

Major Hours: 43

### Major Requirements:

CSCI 220	Computer Programming I
CSCI 220L	Computer Programming I Laboratory
CSCI 221	Computer Programming II
CSCI 230	Data Structures and Algorithms
CSCI 250	Introduction to Computer Organization and Assembly Language Programming
CSCI 320	Programming Language Concepts
CSCI 340	Operating Systems
CSCI 350	Digital Logic and Computer Organization
CSCI 360	Software Architecture and Design
CSCI 362	Software Engineering
CSCI 392	Seminar on Computing and Society
CSCI 462	Software Engineering Practicum

### Nine hours of computer science elective courses at or above the 300 level.

MATH 120	Introductory Calculus
MATH 207	Discrete Structures I
MATH 250	Statistical Methods I
MATH 307	Discrete Structures II

and

### One MATH course from the following:

MATH 220	Calculus II
MATH 203	Linear Algebra
MATH 245	Numerical Methods and Mathematical Computing
MATH 260	Mathematical Modeling and Public Decision-Making
MATH 350	Statistical Methods II
MATH 440	Statistical Learning I
COMM 104	Public Speaking

**Fourteen hours of science, eight of which satisfy the general education requirement for science and all of which can be used to satisfy requirements in the major for a bachelor of science degree in biology, marine biology, chemistry, biochemistry, geology, or physics. Students usually choose from among:**

BIOL 111/111L	Introduction to Cell and Molecular Biology (with laboratory)
BIOL 112/112L	Evolution, Form, and Function of Organisms (with laboratory)

CHEM 111/111L	Principles of Chemistry (with laboratory)
CHEM 112/112L	Principles of Chemistry (with laboratory)
GEOL 101/101L	Dynamic Earth (with laboratory) <b>or</b>
GEOL 103/103L	Environmental Geology (with laboratory)
GEOL 105/105L	Earth History (with laboratory)
PHYS 111/111L	General Physics I (with laboratory)
PHYS 112/112L	General Physics II (with laboratory)

*NOTE: Courses such as BIOL 101, BIOL 102, CHEM 101, CHEM 102, PHYS 101, PHYS 102, ASTR 129, or ASTR 130 cannot be used to satisfy this requirement.*

### Computer Information Systems Major

Degree: Bachelor of Science

Major Hours: 34

#### Major Requirements:

CSCI 220	Computer Programming I
CSCI 220L	Computer Programming I Laboratory
CSCI 221	Computer Programming II
CSCI 230	Data Structures and Algorithms
CSCI 250	Introduction to Computer Organization and Assembly Language Programming
CSCI 320	Programming Language Concepts
CSCI 332	Database Concepts
CSCI 340	Operating Systems
CSCI 362	Software Engineering
CSCI 432	Concepts of Database Implementation
CSCI 462	Software Engineering Practicum

#### Three hours of computer science elective credit at or above the 300 level.

ACCT 203	Financial Accounting
ACCT 204	Managerial Accounting
MATH 120	Introductory Calculus
MATH 207	Discrete Structures I
MATH 250	Statistical Methods I
MATH 307	Discrete Structures II
COMM 104	Public Speaking
DSCI 232	Business Statistics <b>or</b> an approved mathematics elective
FINC 303	Business Finance
MGMT 301	Management and Organizational Behavior

*NOTE: ECON 200 Principles of Microeconomics and ECON 201 Principles of Macroeconomics are prerequisites for FINC 303.*

### Computer Science Major (B.A.)

Degree: Bachelor of Arts

Major Hours: 34

#### Major Requirements:

CSCI 220	Computer Programming I
CSCI 220L	Computer Programming I Laboratory
CSCI 221	Computer Programming II
CSCI 230	Data Structures and Algorithms
CSCI 250	Introduction to Computer Organization and Assembly Language Programming
CSCI 320	Programming Language Concepts

CSCI 340	Operating Systems
CSCI 360	Software Architecture and Design
CSCI 462	Software Engineering Practicum

#### Nine hours of computer science elective courses at or above the 300 level.

MATH 120	Introductory Calculus
MATH 207	Discrete Structures I
MATH 307	Discrete Structures II
COMM 104	Public Speaking

## Computing in the Arts

### Computing in the Arts Major (B.A.)

Degree: Bachelor of Arts

Major Hours: 50

#### Major Requirements:

##### Choose one (3 hours):

CITA 120	Building Virtual Worlds
CITA 180	Computers, Music and Art

##### Required CITA courses(7 hours)

CITA 210	Game Programming
CITA 295	Seminar
CITA 495	Capstone

##### Required CSCI Courses (7 hours)

CSCI 220	Computer Programming I
CSCI 220L	Computer Programming I Laboratory
CSCI 221	Computer Programming II

##### 9 hours from:

CSCI 230	Data Structures and Algorithms
CSCI 250	Introduction to Computer Organization and Assembly Language Programming
CSCI 320	Programming Language Concepts
CSCI 325	Declarative Programming Languages
CSCI 350	Digital Logic and Computer Organization
CSCI 360	Software Architecture and Design
CSCI 380	User Interface Development
CSCI 399	Tutorial
CSCI 470	Principles of Artificial Intelligence
CSCI 480	Principles of Computer Graphics
CSCI 490	Special Topics

##### Required MATH course

MATH 207	Discrete Structures
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##### Choose one:

MATH 105	Calculus for Business and Social Sciences
MATH 111	Pre-calculus Mathematics

##### Art Concentration Requirements (18 hours)

##### Required courses (6 hours)

ARTS 119	Drawing I
ARTH 290	Special Topics: New Media in Contemporary Art

**12 hours from:**

ARTH 101	History of Art: Prehistoric through Medieval
ARTH 102	History of Art: Renaissance to Modern
ARTH 104	Themes in History of Art
ARTH 293	Introduction to Film Art
ARTS 215	Photography I
ARTS 216	Painting I
ARTS 218	Printmaking I
ARTS 220	Sculpture I
ENGL 212	The Cinema: History and Criticism

The following courses have prerequisites of courses in the list above.

ARTH 306	Studies in Modern, Contemporary & Film Arts
ARTH 391	Contemporary Art
ARTH 392	The Camera and Visual Perception
ARTH 490	Independent Study in Art History
ARTS 315	Photography II
ARTS 319	Drawing II
ARTS 322	Painting II
ARTS 323	Printmaking II
ARTS 324	Sculpture II
ARTS 326	Drawing III
ARTS 327	Advanced Photographic Techniques
ARTS 328	Painting III
ARTS 330	Sculpture III
ARTS 331	Painting IV
ARTS 332	Advanced Printmaking
ARTS 333	Sculpture IV
ARTS 334	Advanced Photography
ARTS 335	Selected Topics in Advanced Studio Practice
ARTS 339	Drawing IV
ARTS 430	Independent Study in Studio Art

**Music Concentration Requirements (18 hours):****Required courses (6 hours)**

MUSC 146	Music Fundamentals
MUSC 246	Music Theory I

**12 hours from:**

MUSC 247	Music Theory II
MUSC 345	Jazz Theory
MUSC 351	Seminar in Composition I
MUSC 352	Seminar in Composition II
MUSC 381	Music History I
MUSC 382	Music History II
MUSC 399	Tutorial
MUSC 460	Senior Independent Study in Music Composition
MUSC 481	Music Theory III
MUSC 482	Music Theory IV
MUSC 499	Bachelor's Essay

**Theatre Concentration Requirements (18 hours):****Required courses (9 hours)**

THTR 276	Script Analysis
THTR 277	Acting I
THTR 355	Playwriting I

**3 hours from:**

THTR 240	Costume I
THTR 209	Stagecraft

**3 hours from:**

THTR 310	Theatre History and Literature to 1750
THTR 311	Theatre History and Literature from 1750

**3 hours from:**

THTR 207	Drafting and Rendering for the Theatre
THTR 221	Creative Drama I
THTR 340	Costume II
THTR 350	Special Topics: Screenwriting
THTR 455	Playwriting II

**Computer Science Minors****Computational Thinking Minor**

Minor Hours: 18

**Minor Requirements:**

At least nine hours in the minor at the 200-level or above must be earned at the College of Charleston.

**100-level courses (at most 9 hours from this set are required for this minor):**

CSCI 112	Communication Technology and the Internet
CSCI 114	Electronic Publishing and Design
CSCI 120	Building Virtual Worlds
CSCI 180	Computers, Music and Art
CSCI 199	Special Topics in Computing

**200-level courses and above (at least 9 hours from this set are allowed for the minor):**

CSCI 210	Game Programming
CSCI 220	Computer Programming I
CSCI 220L	Computer Programming I Laboratory
CSCI 221	Computer Programming II
CSCI 230	Data Structures and Algorithms
CSCI 250	Introduction to Computer Organization and Assembly Language Programming
CSCI 299	Special Topics in Computer Science

See CSCI course listing for 300- and 400-level courses.

**Computer Science Minor**

Minor Hours: 19

**Minor Requirements:**

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

CSCI 220	Computer Programming I
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CSCI 220L	Computer Programming I Laboratory
CSCI 221	Computer Programming II
CSCI 230	Data Structures and Algorithms

**One course from:**

CSCI 120	Building Virtual Worlds
CSCI 180	Computers, Music and Art
CSCI 210	Game Programming

**Six additional hours from:**

CSCI 250	Introduction to Computer Organization and Assembly Language Programming <b>or</b>
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Any CSCI course numbered 300 or higher

MATH 105	Calculus for Business and the Social Sciences
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MATH 207	Discrete Structures I
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**Information Systems Minor**

Minor Hours: 25

**Minor Requirements:**

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

CSCI 220	Computer Programming I
CSCI 220L	Computer Programming I Laboratory
CSCI 221	Computer Programming II
CSCI 230	Data Structures and Algorithms
CSCI 332	Database Concepts
CSCI 362	Software Engineering
CSCI 462	Software Engineering Practicum
MATH 105	Calculus for Business and the Social Sciences <b>or</b>
MATH 120	Introductory Calculus
MATH 207	Discrete Structures I

## Discovery Informatics

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Phone: 843-953-8150

**Christopher W. Starr, Director**

**Faculty****About the Interdisciplinary Program**

Discovery Informatics is a mathematically and computationally rigorous, interdisciplinary program, enabling the discovery of implicit patterns in large sets of data sets and data streams. The Discovery Informatics program combines statistics, mathematics, computational thinking, programming, learning theory, logic, information theory, complexity, and artificial intelligence. In addition, students choose a cognate discipline and associated courses, culminating in a Discovery Informatics project directed by a faculty member from their chosen cognate. Cognates and their directors are listed below.

The purpose of the Discovery Informatics program is to provide students with the theoretical foundations and practical analytics experiences needed to understand and utilize methods for knowledge discovery in data sets and data streams.

Today's demand for expertise in data mining and analytics far exceeds the current supply. Discovery Informatics graduates are highly employable in business, industry, and in professional fields like medicine (e.g. health informatics) and law (e.g., computational forensics), and higher government (e.g., national security and cyber-warfare). Graduates wishing to pursue higher degrees in machine learning, or more domain specific fields like bioinformatics, are well prepared for graduate study by completing the Discovery Informatics program.

## Discovery Informatics Major

**Bachelor of Science in Discovery Informatics****Core Requirements (54 credit hours)****Discovery Informatics (9 credit hours)**

DISC 101	Introduction to Discovery Informatics (3)
DISC 210	Dataset Organization and Management (3)
DISC 495	Discovery Informatics Capstone (3)

**Computer Science (19 credit hours)**

CSCI 220	Computer Programming I (3)
CSCI 220L	Computer Programming I Laboratory (1)
CSCI 221	Computer Programming II (3)
CSCI 230	Data Structures and Algorithms (3)
CSCI 310	Advanced Algorithms (3)
CSCI 334	Data Mining (3)
CSCI 470	Principles of Artificial Intelligence (3)

**Mathematics (26 credit hours)**

MATH 120	Introductory Calculus (4)
MATH 203	Linear Algebra (3)
MATH 207	Discrete Structures I (3)
MATH 220	Calculus II (4)
MATH 250	Statistical Methods I (3)
MATH 350	Statistical Methods II (3)
MATH 440	Statistical Learning I (3)
MATH 441	Statistical Learning II (3)

**Cognate Requirement (15-22 credit hours)**

Each student selects one cognate to complete for the Discovery Informatics major. New cognates may become available. Please contact the program director or consult the discovery informatics homepage at <http://discovery.cofc.edu> for a complete listing of cognates along with their directors.

**Accounting Cognate****(15 credit hours)****Director: Brad Trinkle**

The Department of Accounting and Legal Studies offers an opportunity for students in the area of Discovery Informatics to plan, collect, and analyze data pertaining to Accounting. The ability to mine data and build predictive models is paramount in the field of accounting. Organizations consistently use models to forecast financial numbers. Audit firms mine data to gather audit evidence, detect fraud, and to provide evidence for going-concern decisions. The

Accounting cognate will provide the learner with the knowledge necessary to succeed in the competitive world of accounting as a discovery informatics professional. Students should take ECON 200 and 201 to satisfy their social sciences general requirements. Additionally, the required courses are:

ACCT 203	Financial Accounting (3)
ACCT 204	Managerial Accounting (3)
ACCT 316	Intermediate Accounting I (3)
ACCT 317	Intermediate Accounting II
ACCT 409	Auditing Theory (3)

### Biomechanics Cognate

**(22 credit hours)**

**Director: William Barfield**

The Department of Physical Education and Health offers an opportunity for students in the area of Discovery Informatics to plan, collect, and analyze data pertaining to the physics of human motion. Students are advised to take BIOL 111 and BIOL 112 with the mandatory laboratories to satisfy their general education requirements. The complete list of course requirements is shown below. Data associated with these classes could include, but will not be limited to: kinematics of normal and pathological gait, kinematics of other types of human movement including golf and tennis, and the kinetic analysis of movement and how the kinematics and kinetics might be combined to solve a particular issue.

BIOL 111/111L	Introduction to Cell and Molecular Biology (with laboratory) (4)
BIOL 112/112L	Evolution, Ecology, and Biology of Organisms (with laboratory) Lab (4)
BIOL 202	Human Anatomy (4)
PHYS 101/101L	Introductory Physics (with laboratory) (4)
EXSC 330	Kinesiology (3)
PEHD 440	Biomechanics (3)

### Customer Relationship Management Cognate

**(15 credit hours)**

**Director: Julia Blöse**

The Department of Management and Marketing offers an opportunity for students in the area of Discovery Informatics to plan, participate in and assist in analyzing data associated with the study of customer relationship management. The benefits associated with discovery informatics applications in customer relationship management include customer profitability, customer acquisition, cross-selling, customer retention, customer segmentation and customer scoring.

ECON 200	Principles of Microeconomics (3)
ECON 201	Principles of Macroeconomics (3)
DSCI 232	Business Statistics (3)
MKTG 302	Marketing Concepts (3)
MKTG 320	Marketing Research (3)

### e-Commerce Cognate

**(18 credit hours)**

**Director: Gioconda Quesada**

The Department of Management and Marketing offers an opportunity for students in the area of Discovery Informatics to plan, participate in and assist in analyzing data associated with the study of e-commerce. The benefits associated with discovery informatics applications in e-commerce include improved marketing intelligence, enhanced decision making, reduced operational and administration costs, and improved visibility of customer demand.

ACCT 203	Financial Accounting (3)
ACCT 204	Managerial Accounting (3)
DSCI 232	Business Statistics (3)
DSCI 320	Management Information Systems (3)
DSCI 306	Introduction to Electronic Commerce (3)
MKTG 333	Purchasing and Supply Chain Management (3)

### Economics Cognate

**(15 credit hours)**

**Director: Calvin Blackwell**

The Department of Economics and Finance offers an opportunity for students in the area of Discovery Informatics to plan, participate in and assist in analyzing data associated with the study of economics and finance. Improved methods for interpreting the vast amount of data available concerning the macro-economy and financial markets is important to both business leaders and government policy-makers. Specific courses required to provide a content background for these students are listed below. These classes will present the student with the basic problems economics addresses, the tools of economic analysis, and some of the most widely used data in economics.

ECON 200	Principles of Microeconomics (3)
ECON 201	Principles of Macroeconomics (3)
ECON 317	Microeconomic Analysis (3)
ECON 318	Macroeconomic Analysis (3)
ECON 419	Introduction to Econometrics and Forecasting (3)

### Exercise Physiology Cognate

**(16 credit hours)**

**Director: William Barfield**

This cognate, offered by the Department of Physical Education and Health, provides Discovery Informatics students with the opportunity to plan, collect, and analyze large datasets that pertain to the performance of the physiological systems that are most affected by the stress of physical activity. Students are advised to take BIOL 111 and BIOL 112 with the mandatory laboratories to satisfy their general education requirements. The complete list of course requirements is shown below. Data associated with these classes will include, but will not be limited to: the physiology of fitness, nutrient metabolism and energy production, diet modification for physically active individuals, pulmonary function and spirometry, electrocardiography, endocrinology, and the determinants of VO<sub>2</sub> max.

BIOL 111/111L	Introduction to Cell and Molecular Biology (with laboratory) (4)
BIOL 112/112L	Evolution, Ecology, and Biology of Organisms (with laboratory) (3)

BIOL 201	Human Physiology (4)
EXSC 340	Exercise Physiology and Lab (4)

### Finance Cognate

(15 credit hours)

**Director: Brad Trinkle**

The Department of Accounting and Legal Studies offers an opportunity for students in the area of Discovery Informatics to plan, collect, and analyze data pertaining to Accounting. The ability to mine data and build predictive models is paramount in the field of accounting. Organizations consistently use models to forecast financial numbers. Audit firms mine data to gather audit evidence, detect fraud, and to provide evidence for going-concern decisions. The Accounting cognate will provide the learner with the knowledge necessary to succeed in the competitive world of accounting as a discovery informatics professional. Students should take ECON 200 and 201 to satisfy their social sciences general requirements. Additionally, the required courses are:

ACCT 203	Financial Accounting (3)
ACCT 204	Managerial Accounting (3)
FINC 303	Business Finance (3)
FINC 315	Intermediate Business Finance (3)
FINC 400	Investment Analysis (3)

### Geoinformatics Cognate

(16-17 credit hours)

**Director: Norman Levine**

Geoinformatics technologies include Geospatial Information Systems (GIS), Global Positioning System (GPS), and remote sensing. Furthermore, the cognate includes issues in geospatial data delivery and documentation. In order to complete this cognate area, students will need a background in geology; students are advised to take GEOL 101 and 105, or GEOL 103, and 105, with the mandatory laboratories to satisfy their general education requirements. The cognate has three tracks: Geospatial Informatics, Hydro-Geophysical, and Applied Environmental Geoinformatics. The requirements for each track are:

#### Geospatial informatics track:

GEOL 314	Introduction to Remote Sensing (4)
GEOL 442	Geological Application of Remote Sensing (4)
GEOL 449	Geographical Information Systems (4)

A geophysics elective, chosen in consultation with cognate advisor

#### HydroGeophysical track:

GEOL 412	Crustal Geophysics (3)
GEOL 438	Hydrogeology (4)
GEOL 441	Aqueous Geochemistry (4)
GEOL 444	Quantitative Hydrogeology (3)
GEOL 448	Number Modeling of Groundwater (3)

#### Applied Environmental Geoinformatics track:

GEOL 314	Introduction to Remote Sensing (4)
GEOL 438	Hydrogeology (4)
GEOL 441	Aqueous Geochemistry (4)

GEOL 449	Geographical Information Systems (4)
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### Molecular Biology Cognate

(15-16 credit hours)

**Director: Allan Strand**

Bioinformatics makes use of large genetic datasets to address questions in biology at the cellular and molecular level. To expose DI students to training in bioinformatics, we suggest that students take Biology 111 and 112 with the mandatory laboratories to satisfy their general education requirements. The list of requirements is:

BIOL 111/111L	Introduction to Cell and Molecular Biology (with laboratory) (4)
BIOL 112/112L	Evolution, Ecology, and Biology of Organisms (with laboratory) (4)
BIOL 305/305L	Genetics (with laboratory) (4)
BIOL 312/312L	Molecular Biology (with laboratory) (4) <b>or</b>
BIOL 453	Special topics Advanced Genetics (3)

### Organismal Biology Cognate

(15-16 credit hours)

**Director: Allan Strand**

Historically DI has been relevant to biology through the field of bioinformatics, but large datasets can be found in many biological sub-disciplines that focus upon levels of organization higher than the cell. Large datasets, particularly ecological time-series and imagery, have proliferated in environmental biology. For students to receive the training they would need to apply DI approaches to organismal-level subfields, we recommend that students take Biology 111 and Biology 112 as part of their general education requirements. The list of requirements is:

BIOL 111/111L	Introduction to Cell and Molecular Biology (with laboratory) (4)
BIOL 112/112L	Evolution, Ecology, and Biology of Organisms (with laboratory) Lab (4)
BIOL 211/211D	Biodiversity, Ecology, and Conservation Biology (with discussion) (4)

#### One of

BIOL 341	General Ecology (4) <b>or</b>
BIOL 350	Evolution (3)

### Physics and Astronomy Cognate

(18 credit hours)

**Director: Jon Hakkila**

The Physics and Astronomy cognate, offered by the Department of Physics and Astronomy, provides students with a working knowledge of basic physics and astronomy as well as some familiarity with associated data types. Students in this cognate are advised to take Physics 111 and Physics 112 to satisfy their general education requirements. The department is also in the process of expanding course offerings in computational physics; it is expected that anticipated computational physics courses would replace some of the aforementioned courses and/or would serve as ideal cognate requirements when implemented.

PHYS 111	General Physics I (4)
PHYS 112	General Physics II (4)
PHYS 230	Introduction to Modern Physics I (3)
ASTR 311	Stellar Astronomy and Astrophysics (3)
PHYS 370	Experimental Physics (4)

### Psychology Cognate

(13–22 credit hours)

**Director: Kim May**

The Department of Psychology offers a psychology cognate. Psychology, as a scientific discipline that studies human and animal behavior and biobehavioral relationships, relies significantly on accumulating and querying extensive databases in subfields of psychology to address salient research questions (e.g., in neuroscience, cognition, health, and social psychology). To provide training that DI students would require, students will take PSYC 103 (Introduction to Psychological Science) as part of their general education social science requirement. PSYC 211 (Psychological Statistics) and PSYC 220 (Research Methods) are required but can be excused if students present appropriate background in statistics and/or experimental methods. Other courses include:

**One** of the following with accompanying laboratory:

PSYC 213	Conditioning and Learning
<b>and</b>	
PSYC 360	Laboratory in Conditioning and Learning (4) <b>or</b>
PSYC 214	Behavioral Neuroscience
<b>and</b>	
PSYC 364	Laboratory in Physiological Psychology (4) <b>or</b>
PSYC 215	Cognitive Psychology
<b>and</b>	
PSYC 368	Laboratory in Cognitive Psychology (4) <b>or</b>
PSYC 310	Social Psychology
<b>and</b>	
PSYC 362	Laboratory in Social Psychology (4)
<b>and</b>	
PSYC 390	Research Design and Interpretation (3)
PSYC 400	Independent Study (3)

### Sociology Cognate

(15 credit hours)

**Director: Tracy Burkett**

The Department of Sociology and Anthropology offers the sociology cognate. Sociology is a quantitative discipline, and much of the current research in this field is based upon querying large databases. To provide the training that DI students interested in sociology would require, students pursuing the sociology cognate are advised to take SOCY 101 or SOCY 102 as part of their general education social science requirement.

SOCY 101	Introduction to Sociology (3) <b>or</b>
SOCY 102	Contemporary Social Issues
SOCY 260	Development of Social Thought (3)
SOCY 271	Introduction to Social Research (3)

### One course from

SOCY 331-369 or SOCY 390 (selected in consultation with the Cognate Director).

### 3 credit hours from:

(Selected in consultation with the Cognate Director)

SOCY 381	Internship
SOCY 382	Student Research Apprenticeship in Sociology
SOCY 399	Tutorial
SOCY 490	Independent Study
SOCY 499	Bachelor's Essay

### Supply Chain Management Cognate

(18 credit hours)

**Director: Marvin Gonzalez**

The Department of Management and Marketing offers an opportunity for students in the area of Discovery Informatics to plan, participate in and assist in analyzing data associated with the study of supply chain management. Students are advised to take ECON 200 and ECON 201 to fulfill their general education social science requirements.

ECON 200	Principles of Microeconomics (3)
ECON 201	Principles of Macroeconomics (3)
DSCI 232	Business Statistics (3)
MKTG 302	Marketing Concepts (3)
MKTG 333	Purchasing and Supply Chain Management (3)
TRAN 312	Global Logistics (3)

### Discovery Informatics Minor

#### Discovery Informatics Minor

Minor Hours: 18-19 hours

#### Minor Requirements:

The Discovery Informatics minor provides students an introduction to the field by developing their quantitative abilities in statistics and in data mining, and by giving students a broad overview of the field with some practical applications of data mining, programming and databases.

The primary goal of the Discovery Informatics minor is to increase the quantitative and analytical learning skills of students in all degree programs at the College of Charleston who complete this minor. The curriculum exposes students to the nature of discovery informatics and builds a small skill set in data mining.

#### Discovery Informatics (6 credit hours)

DISC 101	Introduction to Discovery Informatics (3)
DISC 210	Dataset Organization and Management (3)

#### Computer Science (4 credit hours)

CSCI 220	Computer Programming I (3)
CSCI 220L	Computer Programming I Laboratory (1)

#### Mathematics (10 credit hours)

MATH 111	Pre-Calculus Mathematics (4)
MATH 250	Statistical Methods I (3)

MATH 355 Bayesian Statistical Inference (3)

# Geology and Environmental Geosciences

Phone: 843-953-5589

**Mitchell W. Colgan, Chair**

## Faculty

James L. Carew, Robert L. Nusbaum, *Professors*  
 Erin K. Beutel, Timothy J. Callahan, Mitchell W. Colgan,  
 Steven C. Jaumè, Norman S. Levine, Cassandra J. Runyon,  
 Leslie R. Sautter, *Associate Professors*  
 Briget C. Doyle, Scott Harris, Vijay M. Vulava, *Assistant Professors*  
 Elizabeth F.K. Rhodes, *Senior Instructor*

## About the Department

Geology is the science of the Earth – including its structure, dynamics, and history at many scales of inquiry. Geoscientists provide a unique perspective on using science and mathematics to solve common problems affecting society locally, regionally, and on a global scale. Because of the relatively low faculty to student ratio, students have the opportunity to actively participate in faculty guided geoscience research.

The Department of Geology and Environmental Geosciences offers a major, a minor, and a broad array of topical and interdisciplinary elective courses in the geosciences. Students who complete a bachelor of science or bachelor of arts degree with a major in geology may tailor a program of study to better prepare themselves for a wide variety of career opportunities in:

1. Advanced graduate study – Our students have received graduate fellowships from universities throughout the U.S.
2. Industry and government using geospatial technologies
3. Environmental consulting firms and state or federal environmental regulatory agencies and hazard mitigation.
4. Interdisciplinary careers such as oceanography, national intelligence, and resource management

## Geology and Environmental Geosciences Majors

### Geology Major (B.S.)

Degree: Bachelor of Science

Major Hours: 42

### Major Requirements:

#### Core Courses

GEOL 101/101L Dynamic Earth (with laboratory) **or**  
 GEOL 103/103L Environmental Geology (with laboratory) **or**  
 HONS 155/155L Honors Geology I (with laboratory)

GEOL 105/105L Earth History (with laboratory) **or**  
 HONS 156/156L Honors Geology II (with laboratory)  
 GEOL 252 Mineralogy  
 GEOL 269 Introduction to Petrology  
 GEOL 272 Stratigraphy and Sedimentation  
 GEOL 333 Paleobiology  
 GEOL 352 Structural Geology  
 GEOL 360 Field Studies  
 GEOL 492 Senior Seminar

### Electives: nine additional hours in geology.

Students pursuing a B.S. degree in geology may receive a maximum of three hours of elective credit for courses taken at the 200 to 249 level. All additional elective hours in geology must be taken at the 250 level or above.

CHEM 111/111L Principles of Chemistry (with laboratory)  
 CHEM 112/112L Principles of Chemistry (with laboratory) **or**  
 GEOL 250/250L Introduction to Geochemistry (with laboratory)  
 MATH 120 Introductory Calculus  
 MATH 220 Calculus II **or**  
 MATH 250 Statistical Methods I  
 PHYS 101/101L  
**and**  
 PHYS 102/102L Introductory Physics (with laboratory) **or**  
 PHYS 111/111L  
**and**  
 PHYS 112/112L General Physics (with laboratory) **or**  
 BIOL 101/101L  
**and**  
 BIOL 102/102L Concepts and Applications in Biology (with laboratory) **or**  
 BIOL 111/111L Introduction to Cell and Molecular Biology (with laboratory)  
**and**  
 BIOL 112/112L Evolution, Form and Function of Organisms (with laboratory)

### Computer science is recommended.

### Additional Electives (A Maximum of 3 credit hours in these classes can count toward the Geology & Environmental Sciences B.A.)

GEOL 260 NASA Space Mission Design  
 GEOL 260L NASA Space Mission Design Lab  
 GEOL 460L NASA Space Mission Design Leadership Lab

### Geology Major (B.A.)

Degree: Bachelor of Arts

Major Hours: 36

### Major Requirements:

GEOL 101/101L Dynamic Earth (with laboratory) **or**  
 GEOL 103/103L Environmental Geology (with laboratory) **or**  
 HONS 155/155L Honors Geology I (with laboratory)  
 GEOL 105/105L Earth History (with laboratory) **or**  
 HONS 156/156L Honors Geology II (with laboratory)  
 GEOL 252 Mineralogy

GEOL 269	Introduction to Petrology
GEOL 272	Stratigraphy and Sedimentation
GEOL 333	Paleobiology
GEOL 352	Structural Geology
GEOL 492	Senior Seminar

**Electives: seven additional hours in geology**

Students pursuing a B.A. degree in geology may receive a maximum of three hours of elective credit for courses taken at the 200 to 249 level. All additional elective hours in geology must be taken at the 250 level or above.

CHEM 101/101L	General Chemistry (with laboratory)
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**and**

GEOL 250/250L	Geochemistry (with laboratory) <b>or</b>
CHEM 111/111L	Principles of Chemistry (with laboratory)

**and**

CHEM 112/112L	Principles of Chemistry (with laboratory) <b>or</b>
GEOL 250/250L	Geochemistry (with laboratory)
MATH 111	Pre-Calculus Mathematics
MATH 250	Statistical Methods I

PHYS 101/101L	
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**and**

PHYS 102/102L	Introductory Physics (with laboratory) <b>or</b>
PHYS 111/111L	

**and**

PHYS 112/112L	General Physics (with laboratory) <b>or</b>
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BIOL 101/101L	
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**and**

BIOL 102/102L	Concepts and Applications in Biology (with laboratory) <b>or</b>
BIOL 111/111L	Introduction to Cell and Molecular Biology with laboratory

**and**

BIOL 112/112L	Evolution, Form, and Function of Organisms (with laboratory)
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**Additional Electives (A Maximum of 3 credit hours in these classes can count toward the Geology & Environmental Sciences B.A.)**

GEOL 260	NASA Space Mission Design
GEOL 260L	NASA Space Mission Design Lab
GEOL 460L	NASA Space Mission Design Leadership Lab

Computer science courses **and** GEOL 360 Field Studies are recommended.

## Geology and Environmental Geosciences Concentration

### Environmental Geology Concentration

**Concentration Requirements:**

Students electing to complete a concentration in environmental geology must complete all of the core requirements for either degree program, and

**12 hours of electives to include:**

GEOL 438	Hydrogeology
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GEOL 441	Aqueous Geochemistry
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**Additional courses selected from the following:**

GEOL 257	Marine Geology
GEOL 275	Geomorphology
GEOL 300	

**and**

GEOL 303	Independent Study in Geology
GEOL 312	Environmental Field Methods
GEOL 314	Introduction to Remote Sensing
GEOL 320	Earth Resources
GEOL 360	Field Studies <b>or</b>

Other suitable electives as approved by the department.

*NOTE: Students electing to take independent research courses are allowed to enroll in a maximum of six credit hours of senior thesis, independent study courses, or both.*

## Geology and Environmental Geosciences Minor

### Geology Minor

Minor Hours: 20

**Minor Requirements:**

**At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.**

GEOL 101/101L	Dynamic Earth (with laboratory) <b>or</b>
GEOL 103/103L	Environmental Geology (with laboratory) <b>or</b>
HONS 155/155L	Honors Geology I (with laboratory)
GEOL 105/105L	Earth History (with laboratory) <b>or</b>
HONS 156/156L	Honors Geology II (with laboratory)

**A maximum of 3 credit hours in these classes can count toward to Geology & Environmental Sciences Minor**

GEOL 260	NASA Space Mission Design
GEOL 260L	NASA Space Mission Design Lab
GEOL 460L	NASA Space Mission Design Leadership Lab

Additional geology courses selected to complement the student's major. The student's major advisor and his or her geology advisor must approve the courses.

## Mathematics

Phone: 843-953-5730

**Robert J. Mignone, Chair**

**Faculty**

Annalisa Calini, James Carter, Ben Cox, Gary Harrison, Thomas Ivey, Renling Jin, Katherine Johnston-Thom, Martin Jones, Alex Kasman, Robert Mignone, Dinesh Sarvate, Sandra Shields, Paul Young, *Professors*

Elizabeth Jurisich, Thomas Kunkle, Stephanie Lafortune, Amy Langville, Brenton LeMesurier, Oleg Smirnov, Arthur Vartanian, *Associate Professors*

Iana Anguelova, Hope Florence, Bo Kai, Jiexiang Li, Jin-Hong Park, A. Przeworski I, *Assistant Professors*

Sofia Agrest, Rohn England, Deborah Jeter, Jim Young, *Senior Instructors*

### About the Department

Mathematics is one of the oldest academic disciplines, valued for its intrinsic beauty, as training in logical and analytical reasoning, and for its widespread applications throughout other disciplines. As our society adopts more technology and collects more data, training in mathematics becomes ever more valuable.

At the bachelor's level, the Department of Mathematics offers a major, two minors, and a number of service courses for various disciplines. Students who complete a bachelor of science in mathematics have a number of career options.

1. They may pursue an advanced degree in mathematics or a closely related area such as statistics, computer science, biometry, information science, or operations research.
2. Students who combine mathematics with another discipline that uses mathematics can enhance their pursuit of graduate studies in either discipline. These areas include biology, chemistry, economics, medicine, physics, and even such areas as sociology, political science, and psychology.
3. Mathematics majors may teach at the secondary level.
4. Mathematics majors may work in business, industry, or government, and other areas. Often the analytical reasoning developed by a mathematics major is more important to these companies than any specific mathematical technique.
5. Many mathematics majors work in the computer industry, in such areas as systems analysis, programming, design of algorithms, or computer graphics. The computer industry is one of the largest employers of mathematicians.
6. Many mathematics majors work as actuaries in the insurance industry, applying mathematics and statistics to risk assessment and financial analysis.

To meet the varying needs of mathematics majors with different career goals, the Department of Mathematics offers five tracks leading to the bachelor of science degree. All students wishing to graduate with a major in mathematics must complete one of the five tracks. These tracks are built around a common core of courses required of all math majors. The core courses and requirements for each track are listed below.

Students interested in the mathematics major are not required to select a track immediately. Instead, they may focus on the first five core courses. Typically, a mathematics major should complete these core courses by the end of the sophomore year. Entering majors should enroll in one of these courses or MATH 111, the prerequisite for MATH 120.

The calculation of the GPA in the major will be based only on those mathematics courses that are acceptable for credit toward the major.

## Mathematics Major

### Mathematics Major

Degree: Bachelor of Science

#### Major Requirements:

Students must complete the core courses plus one of the five tracks (actuarial, applied, pure, statistics, teacher education). See also "Academic Regulations" section of this catalog.

#### Core Courses Required for All Tracks

MATH 120	Introductory Calculus
MATH 203	Linear Algebra
MATH 220	Calculus II
MATH 221	Calculus III

#### Actuarial Studies Track

*Minimum 34 hours in math; 18 hours in business*

This track is designed to prepare students to work as actuaries in the insurance industry.

MATH 250	Statistical Methods I
MATH 350	Statistical Methods II
MATH 430	Mathematical Statistics I
MATH 431	Mathematical Statistics II

*One of the following course/lab pairs:*

MATH 245	Numerical Methods and Mathematical Computing <b>and</b>
MATH 246	Mathematical Computing and Programming Laboratory
<b>or</b>	
CSCI 220	Computer Programming I <b>and</b>
CSCI 220L	Computer Programming I Laboratory

*Three additional hours chosen from:*

MATH 440	Statistical Learning I
MATH 445	Numerical Analysis (Math 323 is a prerequisite for Math 445)
MATH 451	Linear Programming and Optimization

*All of the following courses in business:*

ACCT 203	Financial Accounting
ACCT 204	Managerial Accounting
ECON 200	Principles of Microeconomics
ECON 201	Principles of Macroeconomics
FINC 303	Business Finance
FINC 385	Principles of Risk Management and Insurance

#### Applied Mathematics Track

*Minimum 46 hours*

This track is designed to prepare students for careers in industries requiring skills in mathematical modeling and technology, including finance, or graduate study in applied fields.

MATH 245	Numerical Methods and Mathematical Computing <b>and</b>
MATH 246	Mathematical Computing and Programming Laboratory
MATH 295	An Introduction to Abstract Mathematics

Next:

MATH 311	Advanced Calculus I
MATH 315	Introduction To Complex Variables
MATH 323	Differential Equations
MATH 430	Mathematical Statistics I

Either:

MATH 303	Abstract Algebra I
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or

MATH 402	Advanced Linear Algebra
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At least two-course taken from:

MATH 423	Introduction to Partial Differential Equations
MATH 431	Mathematical Statistics II
MATH 445	Numerical Analysis
MATH 451	Linear Programming and Optimization
MATH 452	Operations Research
MATH 470	Mathematical Modeling

In addition, an elective requirement of 3 additional hours of mathematics courses at the 400 level or above.

### Pure Mathematics Track

46 hours

This option is primarily intended for majors who will attend graduate school in mathematics. Those who select the mathematics major for its intrinsic value may also choose this option.

MATH 295	An Introduction to Abstract Mathematics
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One of the following course/lab pairs:

MATH 245	Numerical Methods and Mathematical Computing <b>and</b>
MATH 246	Mathematical Computing and Programming Laboratory

or

CSCI 220	Computer Programming I <b>and</b>
CSCI 222	Computer Programming I Laboratory

Next:

MATH 303	Abstract Algebra I
MATH 311	Advanced Calculus I
MATH 315	Introduction To Complex Variables
MATH 323	Differential Equations
MATH 340	Axiomatic Geometry

Either:

MATH 403	Abstract Algebra II
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or

MATH 411	Advanced Calculus II
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(Note: Majors considering graduate school would be strongly advised to take both.)

In addition, an elective requirement of six additional hours of mathematics courses at the 400 level or above.

### Statistics Track

Minimum 46 hours

This option is intended for majors who wish to specialize in statistics. For example, students interested in biological

statistics, industry, and market research may wish to choose this track.

MATH 250	Statistical Methods I
MATH 295	An Introduction to Abstract Mathematics
MATH 311	Advanced Calculus I
MATH 350	Statistical Methods II
MATH 430	Mathematical Statistics I
MATH 431	Mathematical Statistics II

**and**

One of the following course/lab pairs:

MATH 245	Numerical Methods and Mathematical Computing <b>and</b>
MATH 246	Mathematical Computing and Programming Laboratory

or

CSCI 220	Computer Programming I <b>and</b>
CSCI 222	Computer Programming I Laboratory

Nine additional hours chosen from:

MATH 440	Statistical Learning I
MATH 441	Statistical Learning II
MATH 451	Linear Programming
MATH 452	Operations Research
MATH 455	Bayesian Statistical Methods
MATH 475	Statistical Consulting
CSCI 334	Data Mining

### Teacher Education Track (Grades 9-12)

Minimum 41 hours

After declaration of a major in mathematics in this track, students must meet with the director of certification and clinical practice, School of Education, Health, and Human Performance, 953-5613. Students must take EDFS 201 during their sophomore year and apply for acceptance into this program no later than the second semester of their sophomore year. Requirements for this track in the math major include admission to and successful completion of the approved teacher education program.

Specific general education, teacher education program, and content major requirements can be found at <http://www.cofc.edu/schoolofeducation/EDFS/>.

MATH 246	Numerical Methods and Mathematical Computing Laboratory
MATH 250	Statistical Methods I
MATH 295	An Introduction to Abstract Mathematics
MATH 303	Abstract Algebra I
MATH 323	Differential Equations
MATH 340	Axiomatic Geometry
MATH 417	One hour of directed reading and portfolio on the history of mathematics
MATH 430	Mathematical Statistics I
MATH 470	Mathematical Modeling

Either:

MATH 311	Advanced Calculus I
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**or**

MATH 315 Introduction to Complex Variables  
Successful completion of all requirements for certification in secondary education.

## Mathematics Minors

### Mathematics Minor

Minor Hours: 21-23

#### Minor Requirements:

See also **Academic Regulations on page 16.**

MATH 120 Introductory Calculus

MATH 220 Calculus II

MATH 203 Linear Algebra

Ten additional hours at the 200 level or above, of which three hours must be at the 300 level or above.

See course listings for a complete list of courses offered.

### Pre-Actuarial Studies Minor

#### Minor Requirements:

**Pre-Actuarial Studies Minor: 21 hours**

*For students majoring in mathematics (other than the Actuarial Studies Track):*

ACCT 203 Financial Accounting

ACCT 204 Managerial Accounting

ECON 200 Principles of Microeconomics

ECON 201 Principles of Macroeconomics

FINC 303 Business Finance

FINC 385 Principles of Risk Management and Insurance

MATH 250 Statistical Methods I

MATH 350 Statistical Methods II

MATH 430 Mathematical Statistics I

MATH 431 Mathematical Statistics II

*NOTE: Three or four of the mathematics courses in this minor can be used to satisfy specific or elective course requirements in the various tracks (other than actuarial studies) in the mathematics major.*

**Pre-Actuarial Studies Minor: 24 hours**

*For students majoring in business administration:*

FINC 385 Principles of Risk Management and Insurance

MATH 120 Introductory Calculus

MATH 203 Linear Algebra

MATH 220 Calculus II

MATH 221 Calculus III

MATH 250 Statistical Methods

MATH 430 Mathematical Statistics I

MATH 431 Mathematical Statistics II

## Preparation for MUSC Master's in Biometry Program

By carefully choosing the coursework in our B.S. in mathematics, a student may also be able to obtain an M.S. degree in biometry from the Medical University of South Carolina, with coursework for both degrees completed within five years. This is not a formal program, but rather a

consequence of careful planning. College of Charleston math majors interested in both degrees should apply for admission to the College of Graduate Studies at MUSC during the spring semester of their junior year, and this admission is not automatic. For more information, contact the mathematics department at the College of Charleston or visit MUSC's Web page.

## Physics and Astronomy

Phone: 843-953-5593

**Jon Hakkila, Chair**

### Faculty

Jon Hakkila, Linda R. Jones, James E. Neff, Laura R. Penny  
*Professors*

P. Chris Fragile, Narayanan Kuthirummal, B. Lee Lindner, Sorinel Oprisan, Norris W. Preyer, Alem Teklu  
*Associate Professors*

Joseph Carson, George Chartas, Michael Larsen, Ana Oprisan  
*Assistant Professors*

Mikhail Agrest, Terry Richardson, Jeffrey L. Wragg, *Senior Instructors*

### About the Department

Physics is the present-day equivalent of what used to be called natural philosophy, from which most of modern science arose. It investigates the properties, changes, and interactions of matter and energy. The study of physics does not involve following a recipe; rather, it entails developing an attitude or way of looking at phenomena and asking questions. Physicists seek to understand how the physical universe works, no matter what the scale of observation – from quarks to quasars, from the time it takes a proton to spin around to the age of the cosmos. Awareness of the beauty, harmony, and interplay of the laws of physics greatly enhances our view and appreciation of our environment. Astronomy and astrophysics are physics disciplines that seek to understand the natural world beyond the Earth's boundaries.

The four degree programs offered by the Department of Physics and Astronomy enable a student to prepare for a career in physics or astronomy or for a career in related fields such as engineering, biophysics, agriculture, medicine, law, geophysics, meteorology, and business.

## Physics and Astronomy Majors

### Physics Major (B.S.)

Degree: Bachelor of Science

Major Hours: 43

#### Major Requirements:

PHYS 111/111L General Physics I (with laboratory)

PHYS 112/112L General Physics II (with laboratory)

PHYS 230 Introduction to Modern Physics I

PHYS 301 Classical Mechanics

PHYS 370 Experimental Physics

PHYS 403	Introductory Quantum Mechanics
PHYS 409	Electricity and Magnetism
PHYS 419	Research Seminar
PHYS 420	Senior Research or
PHYS 499	Bachelor's Essay

**15 additional hours chosen with department approval from:**

ASTR 206	Planetary Astronomy
PHYS 296	Biophysical Modeling of Excitable Cells

Any 300- or 400-level physics or astronomy course with a maximum of six credits total from PHYS 381, PHYS 390 and PHYS 399.

*NOTE: CSCI 220 Computer Programming I or its equivalent is strongly recommended.*

**Astrophysics Major**

Degree: Bachelor of Science

Major Hours: 43

**Major Requirements:****Required courses:**

PHYS 111/111L	General Physics I (with laboratory)
PHYS 112/112L	General Physics II (with laboratory)
PHYS 230	Introduction to Modern Physics I
PHYS 301	Classical Mechanics
PHYS 403	Introduction to Quantum Mechanics
PHYS 405	Thermal Physics
PHYS 409	Electricity and Magnetism
PHYS 419	Research Seminar
PHYS 420	Senior Research (astronomy topic required)
ASTR 206	Planetary Astronomy
ASTR 311	Stellar Astronomy and Astrophysics
ASTR 312	Galactic/Extragalactic Astronomy
ASTR 377	Experimental Astronomy

**3 additional hours chosen from the following:**

ASTR 410	Black Holes: Advanced Topics
ASTR 413	Astrophysics
ASTR 460L	NASA Space Mission Design Leadership Lab
PHYS 390	Research (astronomy topic required)
PHYS 404	Introduction to Quantum Mechanics II
PHYS 407	Introduction to Nuclear Physics
PHYS 410	Electricity and Magnetism II
PHYS 412	Special Topics (astronomy topic required)
PHYS 415	Fluid Mechanics

Demonstrated skill in analytical computer programming (e.g. MATH 245/246 Numerical Methods and Mathematical Computing)

**NOTES:**

- Fifteen hours of mathematics are required by course prerequisites.*
- With department approval, completion with grades of at least "B" in PHYS 101 and PHYS 102 with labs, together with MATH 120 and MATH 220 may be substituted for PHYS 111/111L and PHYS 112/112L.*
- With department approval, PHYS 499 may be substituted for PHYS 420.*

*4. Except for the substitution of ASTR 377 for PHYS 370, this qualifies for the B.S. in Physics. If the student takes ASTR 377 and PHYS 370, then they have a double major in Physics and Astrophysics.*

**Physics Major (B.A.)**

Degree: Bachelor of Arts

Major Hours: 30

**Major Requirements:**

PHYS 111/111L	General Physics I (with laboratory)
PHYS 112/112L	General Physics II (with laboratory)
PHYS 230	Introduction to Modern Physics I
PHYS 370	Experimental Physics
PHYS 419	Research Seminar
PHYS 420	Senior Research <b>or</b>
PHYS 499	Bachelor's Essay

**Electives: 11 additional hours in physics to be selected by the student, with the approval of the department, with a maximum of three credits total from PHYS 381, PHYS 390 and PHYS 399. Additionally, a maximum of three credits from PHYS 260, PHYS 260L and PHYS 460L is allowed.**

**NOTES:**

- Fifteen hours of mathematics are required by course prerequisites.*
- With department approval, completion with grades of at least "B" in PHYS 101 and PHYS 102 with labs, together with MATH 120 and MATH 220 may be substituted for PHYS 111/111L and PHYS 112/112L.*
- With department approval, PHYS 499 may be substituted for PHYS 420.*
- Suggested programs of study leading to graduate school in physics, astronomy, astrophysics, meteorology and engineering are available from the department.*

**Astronomy Major**

Degree: Bachelor of Arts

Major Hours: 30

**Major Requirements:****Required courses:**

PHYS 111/111L	General Physics I (with laboratory)
PHYS 112/112L	General Physics II (with laboratory)
PHYS 230	Introduction to Modern Physics I
PHYS 419	Research Seminar
PHYS 420	Senior Research (astronomy topic required)

**and either**

ASTR 206	Planetary Astronomy <b>or</b>
ASTR 311	Stellar Astronomy and Astrophysics

**12 additional hours chosen from the following (at least 6 hours from boldface courses):**

ASTR 205	Intelligent Life in the Universe
ASTR 206	Planetary Astronomy
ASTR 210	Black Holes in the Universe
ASTR 260	NASA Space Mission Design
ASTR 260L	NASA Space Mission Design Lab
ASTR 311	Stellar Astronomy and Astrophysics
ASTR 312	Galactic and Extragalactic Astronomy

ASTR 377	Experimental Astronomy
ASTR 410	Black Holes: Advanced Topics
ASTR 413	Astrophysics
ASTR 460L	NASA Space Mission Design Leadership Lab
GEOL 206	Planetary Geology
GEOL 412	Crustal Geophysics
PHYS 298	Special Topics (astronomy related topic)
PHYS 301	Classical Mechanics
PHYS 340	Photonics
PHYS 390	Research (astronomy topic required)
PHYS 403	Introductory Quantum Mechanics I
PHYS 405	Thermal -Physics
PHYS 409	Electricity and Magnetism
PHYS 404	Introductory Quantum Mechanics II
PHYS 407	Introduction to Nuclear Physics
PHYS 410	Electricity and Magnetism II
PHYS 412	Special Topics (astronomy topic required)
PHYS 415	Fluid Mechanics

**NOTES:**

1. Twelve hours of mathematics are required by course prerequisites.
2. With department approval, completion with grades of at least "B" in PHYS 101 and PHYS 102 with labs, together with MATH 120 and MATH 220 may be substituted for PHYS 111/111L and PHYS 112/112L.
3. With department approval, PHYS 499 may be substituted for PHYS 420.
4. Suggested programs of study leading to graduate school in astronomy and astrophysics are available from the department.

## Physics and Astronomy Concentrations

### Energy Production Concentration

Concentration Hours: 18

**Concentration Requirements:****Core courses:**

CHEM 111	General Chemistry I with lab
PHYS 350	Energy Production with lab

**Electives (10 hours, at least two courses from those in group I)***Group I*

PHYS 320	Introductory Electronics
PHYS 340	Photonics
PHYS 405	Thermal Physics
PHYS 407	Nuclear Physics
PHYS 408	Solid State Physics

*Group II*

PHYS 381	Internship (energy related)
PHYS 390	Research (energy related)
PHYS 308	Atmospheric Physics
PHYS 409	Electricity and Magnetism
PHYS 412	Special Topics (energy related) (1-3 hours)

PHYS 415	Fluid Mechanics
PHYS 419	Research Seminar
PHYS 420	Senior Research (energy related) <b>or</b>
PHYS 499, but only count 3 hours of its 6 hours toward the concentration	
PHYS 456	Air Pollution Meteorology
PHYS 458	Climate Change
GEOL 320	Earth Resources
CHEM 341/341L	Physical Chemistry
CHEM 528	Nuclear and Radiochemistry

**Meteorology Concentration**

Concentration Hours: 18

**Concentration Requirements:****Core courses:***Two selected from:*

PHYS 105	Introduction to Meteorology
PHYS 308	Atmospheric Physics
PHYS 456	Air Pollution Meteorology
PHYS 457	Satellite Meteorology
PHYS 458	Climate Change

**Electives:**

BIOL 204	Man and the Environment
BIOL 342	Oceanography
CHEM 111	Principles of Chemistry
ENVT 200	Introduction to Environmental Studies
GEOL 103	Environmental Geology
GEOL 438	Hydrogeology
GEOL 240	Special Topics*
GEOL 314	Introduction to Remote Sensing
GEOL 442	Remote Sensing
HONS 390	Special Topics*
ASTR 206	Planetary Astronomy
PHYS 298	Special Topics*
PHYS 301	Classical Mechanics
PHYS 308	Atmospheric Physics†
PHYS 340	Photonics
PHYS 390	Research*
PHYS 399	Tutorial*
PHYS 405	Thermal Physics
PHYS 412	Special Topics*
PHYS 415	Fluid Mechanics
PHYS 420	Senior Research*
PHYS 456	Air Pollution Meteorology†
PHYS 457	Satellite Meteorology†
PHYS 458	Climate Change†
PHYS 499	Bachelor's Essay*

\*Must involve meteorology and must be approved by the meteorology concentration program director.

†If not already taken to satisfy core course requirements.

**NOTES:**

1. Many of these courses require prerequisites which will not count towards the concentration unless they are on the list above.

2. A minimum of three physics courses are required to obtain a concentration.

3. Students must notify the meteorology concentration program director prior to graduation to receive credit for the concentration on their transcript.

The department's Handbook for Majors is an invaluable resource for students. Copies are available from the department office. The handbook includes advice for constructing a major, minor, or area of concentration which is consistent with an individual's career goals. It is usually the most up-to-date source of information about the department and our programs. Also, visit the Web pages at [www.cofc.edu/~physics/](http://www.cofc.edu/~physics/).

## Physics and Astronomy Minors

### Astronomy Minor

Minor Hours: 18

#### Minor Requirements:

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

#### Core courses:

ASTR 129 and Astronomy I and II or 130

one year of Honors Astronomy or

ASTR 206 Planetary Astronomy and ASTR 311 Stellar Astronomy

#### Electives:

ASTR 205	Intelligent Life in the Universe
ASTR 206	Planetary Astronomy†
ASTR 210	Black Holes in the Universe
ASTR 260	NASA Space Mission Design
ASTR 260L	NASA Space Mission Design Lab
ASTR 460L	NASA Space Mission Design Leadership Lab
ASTR 311	Stellar Astronomy and Astrophysics†
ASTR 377	Experimental Astronomy
ASTR 410	Black Holes: Advanced Topics
ASTR 413	Astrophysics
GEOL 206	Planetary Geology
PHYS 101	Introductory Physics
PHYS 102	Introductory Physics
PHYS 111/111L	General Physics I (with laboratory)
PHYS 112/112L	General Physics II (with laboratory)
PHYS 298	Special Topics* (astronomy related topic)_
PHYS 301	Classical Mechanics
PHYS 340	Photonics
PHYS 390	Research*
PHYS 399	Tutorial*
PHYS 412	Special Topics*
PHYS 420	Senior Research*
PHYS 499	Bachelor's Essay*

\*Must involve astronomy and must be approved by the astronomy minor program director.

†If not used as a core course.

### NOTES:

1. A maximum of three courses may be at the 100 level.

2. Students may not receive credit for both PHYS 101 and 111, for both PHYS 102 and 112, or for both ASTR 129/130 and Honors Astronomy.

3. Students must notify the astronomy minor program director prior to graduation to receive credit for the minor on their transcript.

### Biomedical Physics Minor

Minor Hours: 18

#### Minor Requirements:

Students must take a minimum of 18 hours in physics and biology as listed below. At least 9 hours in the minor at the 200 level or above must be earned at the College of Charleston. A maximum of 3 credits of biology or chemistry courses at the 200-level and above may be counted toward the minor.

PHYS 102	Introductory Physics II with lab or
PHYS 112	General Physics II with lab or
HONS 158	Honors Physics II with lab
BIOL 112	Form and Function of Organisms with lab or
HONS 152	Honors Biology II with lab
PHYS 203	Physics & Medicine
PHYS 296/ BIOL 396	Biophysical Modeling of Excitable Cells

#### Additional 4 credits from the following electives:

PHYS 270	Nanotechnology in Medicine
PHYS 320	Introductory Electronics
PHYS 390/ BIOL 397/ CHEM 481/482	Research or
PHYS/BIOL/ CHEM 399	Tutorial (1-3 credits subject to approval by the minor coordinator and research adviser)
PHYS 298	Special Topics (1-3 credits subject to approval by the minor coordinator)
PHYS 412	Special Topics (1-3 credits subject to approval by the minor coordinator)
CHEM 351	Biochemistry
CHEM 354L	Biochemistry Lab

### Meteorology Minor

Minor Hours: 18

#### Minor Requirements:

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

#### Core courses (one from the following):

PHYS 105	Introduction to Meteorology
PHYS 308	Atmospheric Physics

#### One year of basic physics (two courses):

PHYS 101	
and	
PHYS 102	Introductory Physics including associated laboratories or
PHYS 111	
and	

PHYS 112	General Physics including associated laboratories or
HONS 157	
<b>and</b>	
HONS 158	Honors Physics including associated laboratories

**A minimum of one meteorology-based course selected from:**

HONS 390	Special Topics*
PHYS 105	Introduction to Meteorology†
PHYS 298	Special Topics*
PHYS 308	Atmospheric Physics
PHYS 390	Research*
PHYS 399	Tutorial*
PHYS 412	Special Topics*
PHYS 456	Air Pollution Meteorology
PHYS 457	Satellite Meteorology
PHYS 458	Climate Change
PHYS 499	Bachelor's Essay*

**Electives:**

BIOL 342	Oceanography
CHEM 101	General Chemistry
CHEM 111	Principles of Chemistry
CHEM 341	Physical Chemistry
ENVT 200	Introduction to Environmental Studies
GEOL 101	Introduction to Geology
GEOL 103	Environmental Geology
GEOL 438	Hydrogeology
GEOL 240	Special Topics*
GEOL 314	Introduction to Remote Sensing
HONS 390	Special Topics*†
ASTR 206	Planetary Astronomy
PHYS 298	Special Topics*†
PHYS 301	Classical Mechanics
PHYS 308	Atmospheric Physics†
PHYS 340	Photonics
PHYS 390	Research*†
PHYS 399	Tutorial*†
PHYS 405	Thermal Physics
PHYS 412	Special Topics*†
PHYS 415	Fluid Mechanics
PHYS 456	Air Pollution Meteorology†
PHYS 457	Satellite Meteorology†
PHYS 458	Climate Change†
PHYS 499	Bachelor's Essay*†

\*Must involve meteorology and must be approved by the meteorology minor program director.

†If not taken to satisfy requirements in above categories.

**NOTES:**

1. A minimum of nine credits must be at the 200 level or above.
2. Many of these courses require prerequisites which will not count towards the minor unless they are on the list above.
3. Students must notify the meteorology minor program director prior to graduation to receive credit for the minor on their transcript.

**Physics Minor**

Minor Hours: 18

**Minor Requirements:**

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

**Core courses:**

PHYS 111/111L	General Physics I (with laboratory)
PHYS 112/112L	General Physics II (with laboratory)

*NOTE: Under special circumstances, with department approval, and the student having earned grades of "B" or better, PHYS 101 and 102 (with associated labs) may replace PHYS 111/111L and 112/112L.*

**Electives:**

PHYS 150	Physics of Sound and Music
PHYS 203	Physics and Medicine
PHYS 230	Introduction to Modern Physics I
PHYS 260	NASA Space Mission Design
PHYS 260L	NASA Space Mission Design Lab
PHYS 270	Nanotechnology in Medicine
PHYS 296	Biophysical Modeling of Excitable Cells
PHYS 298	Special Topics*
PHYS 301	Classical Mechanics
PHYS 302	Classical Mechanics
PHYS 308	Atmospheric Physics
PHYS 320	Introductory Electronics
PHYS 331	Introduction to Modern Physics II
PHYS 340	Photonics
PHYS 350	Energy Production
PHYS 370	Experimental Physics
PHYS 390	Research*
PHYS 399	Tutorial*
PHYS 403	Introductory Quantum Mechanics
PHYS 404	Introductory Quantum Mechanics
PHYS 405	Thermal Physics
PHYS 407	Introduction to Nuclear Physics
PHYS 408	Introduction to Solid State Physics
PHYS 409	Electricity and Magnetism
PHYS 410	Electricity and Magnetism
PHYS 412	Special Topics*
PHYS 415	Fluid Mechanics
PHYS 420	Senior Research*
PHYS 460L	NASA Space Mission Design Leadership Lab
PHYS 499	Bachelor's Essay*

\*Must involve physics and be approved by the physics minor program director.

*NOTE: Students must notify the physics minor program director prior to graduation to receive credit for the minor on their transcript.*

**Meteorology Teacher Education Program  
(Grades 9-12)**

After a declaration of a major in physics or astronomy, students interested in teacher certification must meet with the

director of certification and clinical practice, School of Education, Health, and Human Performance, 953-5613. Students must take EDFS 201 during their sophomore year and apply for acceptance into this program no later than the second semester of their sophomore year. Requirements include admission to and successful completion of the approved teacher education program.

Specific general education, teacher education program, and content major requirements can be found at <http://www.cofc.edu/schoolofeducation/EDFS/>.

## School of Sciences and Mathematics Special Programs

### School of Sciences and Mathematics Non-Degree Programs

In addition to degree programs, the School of Sciences and Mathematics houses in its various departments several special programs listed below, as well as a joint program with the Medical University of South Carolina in mathematics and biometry. The school houses a laboratory that offers training in Geographic Information Systems (GIS).

#### Pre-Allied Health Programs

The College of Charleston provides pre-professional program education that prepares a student to enter a wide variety of allied health education programs. This includes, but is not limited to: physician assistant, physical therapy, occupational therapy, speech therapy, perfusion, health administration, and the medical laboratory science of cytotechnology. After completing their prerequisites, students must apply to the allied health program of their choice at an institution where it is offered. Admission to such programs requires application and successful competition for admission. Interested students should contact the director of Pre-professional Health Advising for additional information.

#### Pre-Professional Nursing Curriculum

The College of Charleston does not grant nursing degrees, but offers courses that prepare students for entry into colleges of nursing. Students planning to pursue a degree in nursing should contact each program of interest for a list of specific prerequisites. Typically, a pre-nursing student at the College of Charleston should expect to take the following courses, as well as additional courses specified by the nursing programs and/or by their major:

ENGL 101 and 102	6 hours
CHEM 101/101L and 102/102L or 111/111L and 112/112L	8 hours
BIOL 111/111L and 112/112L	8 hours
BIOL 211/212	6 hours
PSYC 103	3 hours
PSYC 224	3 hours
BIOL 202/202L (some programs accept BIOL 323)	4 hours

BIOL 201/201L (some programs accept BIOL 321)	4 hours
BIOL 310/310L	4 hours
Statistics	3 hours
Social science (in addition to psychology)	
Humanities (fine arts, literature, history, philosophy, religious studies, foreign languages literature)	
Additional requirements	

### Pre-Professional Curriculum for Dentistry, Medicine, Optometry, Osteopathy, Podiatry and Veterinary Medicine

The College of Charleston offers courses that prepare students for entry into professional schools while they major in a regular academic discipline. Students are reminded that there is no actual "pre-med" major, for example. Majoring in science is the most common approach; however, students can major in any field such as the arts, business, or science, as long as the course of study includes the general coursework required by the intended professional school and prepares them for the required standardized tests. The Departments of Biology, Chemistry and Biochemistry, and Physics and Astronomy each offer particularly attractive, but different, routes to strong bachelor's degrees that will qualify students for entry into professional schools. Coursework must include:

Biology	8 hours
Chemistry	16 hours
(8 must be in general chemistry, 8 in organic chemistry)	
Mathematics two courses, including calculus (statistics is recommended)	
Physics	8 hours
*Biochemistry	0-8 hours
*Genetics	4 hours

Students should take these courses as early as possible in the academic career by including mathematics and at least two science sequences (biology, chemistry, and physics) in their freshman year.

*\*Recommended for dentistry, medicine and veterinary medicine.*

#### Pre-Pharmacy Curriculum

The College of Charleston offers courses that prepare students for entry into pharmacy school after three years of study at the College. Students should consult the pharmacy schools to which they intend to apply for admission for specific coursework and admissions test requirements. Normally, students must include the following coursework as a minimum:

Biology	8 hours
Chemistry (8 must be in general chemistry, 8 in organic chemistry)	16 hours
Economics	3 hours
English Composition	6 hours
Anatomy/ Physiology	8 hours
Verbal Skills	3 hours
Liberal arts electives	9 hours
Mathematics (including calculus and statistics)	2 courses

Physics 8 hours

Psychology 3 hours

Students should take these courses as early as possible in the academic career by including mathematics and at least two science sequences (biology, chemistry, and physics) in their freshman year.

## SCAMP

843-953-4997

South Carolina Alliance for Minority Participation is a program designed for students from underrepresented groups in sciences and mathematics who are interested in pursuing a degree in the sciences, engineering, or mathematics fields.

Any minority student who is interested in the College's program in astronomy, biology, biochemistry, chemistry, computer science, geology, mathematics, or physics, and is interested in going to graduate school, is eligible. Minority students who want to become science or mathematics teachers are also eligible. For more information, please go to <http://msps.cofc.edu/academicservices/scamp.php>.

## SEA Semester

843-953-5586 or 843-953-9194

SEA Semester is a program sponsored by the Sea Education Association (SEA), a non-profit organization located in the oceanographic research community of Woods Hole, Massachusetts. Affiliated with the College of Charleston, Cornell University, Boston University, and others, SEA Semester is a 12-week, full-credit undergraduate program focusing on oceanographic and maritime studies. At SEA's Woods Hole campus, students undertake coursework in oceanography, nautical science, and maritime literature and history, followed by a practical component of marine science and blue-water sailing aboard one of SEA's sailing oceanographic research vessels (either of the 134-foot steel brigantine tall ships, the SSV Corwith Cramer or SSV Robert Seamans). For more information, please go to [www.sea.edu](http://www.sea.edu).

*NOTE: Any student at the College of Charleston is eligible to apply for participation in SEA Semester. No sailing experience is necessary for enrollment in SEA Semester.*

## Grice Marine Laboratory

843-953-9200

[www.cofc.edu/grice](http://www.cofc.edu/grice)

Located at Fort Johnson on James Island, about 10 miles from the main campus, the Grice Marine Laboratory houses classrooms, student and faculty research laboratories, faculty offices, an aquarium room, and a research collection of marine invertebrates and fishes. The Grice Lab supports teaching and research in marine sciences. The marine lab also offers limited housing to students in its programs. The Grice Lab is the home of the graduate program in marine biology and is where many of the courses for the undergraduate marine biology major are taught.

## Marine Resources Library

843-953-9370

The Marine Resources Library at Fort Johnson houses the extensive marine science holdings of the College of Charleston, the South Carolina Department of Natural Resources Marine Resources Division, and NOAA/NOS/CCEHBR/Charleston Laboratory.

# Interdisciplinary Minors

## African American Studies

Phone: 843-953-7738

**Director: Consuela Francis**

As an interdisciplinary minor focused on the study of the African American experience, African American Studies aims to provide students an understanding of the history and culture of African Americans and to introduce students to the diversity of African American experience in a variety of disciplines. Students who minor in African American Studies can acquire careers in the field as teachers, in community development, in social service agencies and in public administration. Students who minor in African American Studies also gain excellent preparation for graduate and professional school.

Students wishing to declare a minor in African American Studies should request the appropriate form(s) from the director.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

AAST 200	Introduction to African American Studies
ENGL 216	Introduction to African American Literature, <b>or</b>
ENGL 313	African American Literature
HIST 216	African American History to 1877
HIST 217	African American History, 1877 to Present

### Six hours selected from the following:

AAST 300	Special Topics
AAST 381	African American Studies Internship
AAST 400	Independent Study
ANTH 322	Peoples and Cultures of Africa
ANTH 323	African American Society and Culture
ANTH 327	Peoples and Cultures of the Caribbean
HIST 272	Pre-Colonial Africa
HIST 273	Modern Africa
HIST 320	Special Topics in Lowcountry History
HIST 420	Research Seminar in Lowcountry History
LANG 250	West African Literature in Translation
MUSC 222	Special Topics: African American Music
POLS 390	Southern Politics
POLS 322	Politics of Africa
POLS 366	International Diplomacy Studies
SOCY 366	Race and Ethnic Relations
THTR 316	African American Theater

### Special Topics

Department special topics and research seminar courses as appropriate, with the approval of the director.

## African Studies

Phone: 843-953-7858

**Director/Coordinator: Kea Gordon**

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

### Core courses:

AFST 101	Introduction to African Civilization
<b>and</b>	
HIST 272	Pre-Colonial Africa <b>or</b>
HIST 273	Modern Africa

### Twelve credit hours selected from the following:

AFST 202	Special Topics in African Studies (3)
ANTH 322	Peoples and Cultures of Africa
ENGL 352	Major African Writers
ENGL 353	African Women Writers
FREN 451	African Literature of French Expression
HIST 372	North Africa (The Maghrib)
HIST 373	West Africa Since 1800
HIST 473	Pan Africanism/OAU
LT 150-450	African Literature in Translation
POLS 322	Politics of Africa
POLS 366	International Diplomacy Studies

Departmental special topics, tutorials, and independent study courses will also be offered as appropriate.

## American Studies

Phone: 843-953-3859

**Director/Coordinator: Tom Heeney**

An interdisciplinary minor in American studies is available to students interested in an inclusive exploration of American culture and society, which focuses on the interplay of American arts, literature, philosophy and political economy within historical contexts.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

AMST 200	Introduction to American Studies
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15 additional hours selected in consultation with the American studies coordinator.

A representative list of elective courses appears below. For a complete list, consult the American studies coordinator.

AMST 300	Special Topics in American Studies
ANTH 320	Peoples and Cultures of Early America
ANTH 323	African American Society and Culture
HPCP 199	Introduction to Historic Preservation
ARTH 250	American Art
ARTH 205	Pre-Columbian Art and Culture
ARTH 338	American Vernacular Architecture and Material Culture
ECON 350	Financial Markets in the U.S. Economy
ENGL 207	American Literature to World War II
ENGL 313	African American Literature
ENGL 349	American Novel to 1900
ENGL 351	Studies in American Film
ENGL 356	Twentieth-Century American Literature
HIST 201	United States to 1865
HIST 202	United States since 1865
HIST 212	American Labor History
HIST 213	American Jewish History
HIST 214	American Ethnic History
HIST 304	U.S.: Civil War and Reconstruction
MUSC 348	Music in America
PHIL 310	American Philosophy
POLS 101	American Government
POLS 220	Criminal Justice
POLS 304	American Foreign Policy Process
POLS 384	The Presidency
POLS 386	American Politics and the Mass Media
RELS 250	Religions in America
RELS 260	Native American Religions
SOCY 351	Urban Sociology
THTR 212	History of the American Theatre

*NOTE: Courses will not include more than six hours in any one discipline.*

## Archaeology

Phone: 843-953-5408

### Director/Coordinator: Barbara Borg

At the College of Charleston, faculty from across four schools teach courses that expose students to the fundamentals and applications of archaeology. The minor program recognizes the completion of a course of study designed to highlight the interdisciplinary nature of a field that routinely integrates elements of the social sciences, humanities, arts, and natural sciences. This program serves as a means to unify and coordinate archaeological study at the College of Charleston and to provide a forum for intellectual contact between faculty and students.

### Requirements

Minor Hours: 22-28

### Required courses (10)

ANTH 202	Archaeology
CLAS 104	Introduction to Classical Archaeology
GEOL 101/101L	Dynamic Earth w/lab (4) <b>or</b>
GEOL 103/103L	Environmental Geology w/lab (4) <b>or</b>
HONS 155/155L	Honors Geology I w/lab (4)

### Electives (9-10)

Students will take one elective course from each of the following groups: social sciences; humanities and arts; and natural sciences.

#### Social Sciences (3)

ANTH 302	Archaeology of North America
ANTH 303	Paleolithic Archaeology
ANTH 304	Rise of Complex Civilization
ANTH 305	Prehistoric Art and Ritual
ANTH 309	Special Topics in Archaeology
ANTH 318	Theories on the Origins of Agriculture
ANTH 328	Aztecs, Maya, and Their Ancestors

#### Arts and Humanities (3)

ARTH 220	History of Greek and Roman Art
ARTH 290	Special Topics in Art History (when the subject substantially involves archaeological material)
ARTH 205	Pre-Columbian Art and Culture
ARTH 338	American Vernacular Architecture and Material Culture
ARTH 340	Special Topics in Art History (when the subject substantially involves archaeological material)
ARTH 350	History of Early Christian and Byzantine Art
CLAS 121	Classical Greece (travel course)
CLAS 122	Bronze Age Greece (travel course)
CLAS 290	Special Topics in Classics (when the subject substantially involves archaeological material)
CLAS 303	Topics in Classical Civilization (when the subject substantially involves archaeological material)
HIST 230	Ancient Egypt and Mesopotamia
HIST 270	Special Topics in Pre-Modern History (when the subject substantially involves archaeological material)
HIST 320	Special Topics in Lowcountry History (when the subject substantially involves archaeological material)
HIST 370	Special Topics in Pre-Modern History (when the subject substantially involves archaeological material)
HPCP 199	Introduction to Historic Preservation
HPCP 275	History of Land Design
HPCP 375	Landscape Preservation and Design
HPCP 420	Preservation Law and Economics

#### Natural Sciences (3-4)

BIOL 332	Vertebrate Zoology
BIOL 340	Zoogeography
CHEM 583	Special Topics in Chemistry (when the subject substantially involves archaeological material)
GEOL 272	Stratigraphy and Sedimentation
GEOL 235	Geology and Civilization
GEOL 275	Geomorphology

GEOL 240	Special Topics in Geology (when the subject substantially involves archaeological material)
GEOL 314	Introduction to Remote Sensing
GEOL 449	Geographic Information Systems

**Capstone Experience: Fieldwork (3-8)**

A hands-on application of theory and methods through fieldwork or lab work forms the capstone experience.\*

ANTH 493	Field School (8) <b>or</b>
CLAS 221	Field Methods in Classical Archaeology I
<b>and</b>	
CLAS 222	Field Methods in Classical Archaeology II <b>or</b>
ANTH 300	Archaeological Lab (1)

**and**

ANTH 381	Internship in Archaeological Fieldwork (3)
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*\*NOTE: Students may transfer 3 to 6 credit hours in fieldwork from another institution. This option accommodates students who have a particular interest in archaeological research outside the confines of opportunities available at the College of Charleston. Decisions upon acceptance of outside field experience will be determined by the program director.*

## Arts Management

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Phone: 843-953-6301

**Director/Coordinator: Scott Shanklin-Peterson****Requirements****Minor Requirements (for School of the Arts majors): 21 hours**

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

ARTM 200	Introduction to Arts Management
ARTM 310	Advanced Arts Management
ACCT 203	Financial Accounting
ECON 200	Principles of Microeconomics
ECON 201	Principles of Macroeconomics
MGMT 105	Introduction to Business

**Choose one:**

ARTM 350	Marketing, Fundraising and Grantwriting for Non-Profit Arts Organizations
MKTG 302	Marketing Concepts

**Minor Requirements (for School of Business majors): 18 hours**

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

ARTM 200	Introduction to Arts Management
ARTM 310	Advanced Arts Management
ARTS 118	Studio Art: Issues and Images
MUSC 131	Music Appreciation: The Art of Listening
THTR 176	Introduction to Theatre

**Choose one from:**

ARTH 101	History of Art: Prehistory to Renaissance
ARTH 102	History of Art: Renaissance Through Modern
ARTH 103	History of Asian Art

Students who major in all other College programs must complete all the courses required of students in both the School of the Arts and the School of Business: 33 hours.

## Asian Studies

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Phone: 843-953-6313

**Director/Coordinator: Mary Beth Heston**

The Asian studies minor is an interdisciplinary program intended to introduce students to the diverse cultures and regions of Asia through the study of history, politics, languages and literature, visual arts, religion, and economics.

**Requirements**

Minor Hours: 18

**Core courses****Choose one (3 hours):**

ASST 101	Introduction to Asian Studies <b>or</b>
ARTH 103	History of Asian Art <b>or</b>
ASST 105	Value and Tradition in Asian Civilization

**Electives (15 hours from list below):**

The elective courses must be chosen from at least three different disciplines, and with no more than 12 hours in one geographic region (for example, South Asia, Southeast Asia, China or Japan). Language courses beyond the 200 level may count toward the minor. No more than 6 hours at the 100 level may be counted toward the minor.

ARBC 313	Conversation and Composition I
ARBC 314	Conversation and Composition II
ARST 240	Special Topics in Arabic Studies
ARST 340	Special Topics in Arabic Studies
ARTH 103	Survey of Asian Art
ARTH 241	Art of India
ARTH 242	Art of China
ARTH 243	Art of Japan
ARTH 321	Hindu Myth and Image
ARTH 322	Indian Paintings
ASST 240	Special Topics in Asian Studies
ASST 340	Special Topics in Asian Studies
ASST 390	Independent Study in Asian Studies
CHNS 313	Conversation and Composition I
CHNS 314	Conversation and Composition II
CHNS 390	Special Topics in Chinese Literature
CHST 240	Special Topics in Chinese Studies
CHST 340	Special Topics in Chinese Studies
ENGL 234	Survey of Third World Masterpieces
ENGL 290	Special Topics (as appropriate to Asian studies)
ENGL 358	Colonial and Postcolonial British Literature
HIST 250	Special Topics in Comparative/ Transnational History (as appropriate to Asian studies)
HIST 261	Special Topics in Modern Asia, Africa or Latin America (as appropriate to Asian studies)

HIST 276	Medieval Islamic Civilization
HIST 282	China to 1800
HIST 283	Modern China
HIST 285	The Indian Subcontinent Since 1500
HIST 286	Japan to 1800
HIST 287	Modern Japan
HIST 350	Special Topics in Comparative/ Transnational History (as appropriate to Asian studies)
HIST 361	Special Topics in Modern Asia, Africa or Latin America (as appropriate to Asian studies)
HIST 377	Iran/Persia
HIST 461	Research Seminar in Modern Asia, Africa, or Latin America (as appropriate to Asian studies)
JPNS 313	Conversation and Composition I
JPNS 314	Conversation and Composition II
JPNS 343	Advanced Japanese Conversation and Composition
JPNS 390	Special Topics
LTAR 220	Modern Arabic Fiction in Translation
LTCH 250	Chinese Literature in Translation
LTJP 250	Japanese Literature in Translation
LTJP 350	Japanese Literature in Translation
LTJP 390	Special Topics in Japanese Literature in Translation
PHIL 234	Eastern Philosophy
POLS 323	Politics of East Asia
POLS 339	Special Topics (as appropriate to Asian studies)
POLS 362	Case Studies in Foreign Policy
RELS 205	Sacred Texts of the East
RELS 240	The Buddhist Tradition
RELS 245	Religions of India
RELS 248	Religions of China and Japan
RELS 340	Advanced Topics in Asian Religions
RELS 348	Asian Religions in America

## British Studies

Phone: 843-953-4978 // ThomasC@cofc.edu

### Director: Catherine Thomas

The minor in British Studies is designed to provide an integrative study of British life and culture throughout the ages. Students will examine the impact of British institutions and customs on the American experience and will gain an understanding of how British identity has been constituted in its member nations, the European Union, and the global community. The program offers courses and experiences in the study of England, Wales, Scotland, Ireland, Northern Ireland, and those countries and territories formerly a part of the British Empire.

### Requirements

Minor Hours: 18

### History, Politics, Economics and/or Sociology/Anthropology of the British Isles (6 credits)

Choose two three-credit courses from the following:

HIST 354	Tudor England
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HIST 355	Stuart England
HIST 356	Georgian England
HIST 357	Victorian Britain
POLS 334	Geographies and Politics of the European Union

*Special Topics (if appropriate) in History, Politics, Economics, and/or Sociology/Anthropology; e.g.,*

ANTH 329	Peoples and Cultures of the British Isles or Peoples and Cultures and Ireland
HIST 370	The Quest for Arthur's Britain
HIST 441	Elizabethan England
POLS 339	Special Topics in Comparative Politics

Bilateral Exchange Courses at Bath-Spa University College, Buckinghamshire New University, University of Lincoln, and University of Nottingham; USM British Studies Consortium Courses based at King's College, London

### Literature, Art, Architecture, Drama, and/or Music of the British Isles (6 credits)

Choose two three-credit courses from the following:

ENGL 201/202	British Literature to/since 1800
ENGL 301/302	Shakespeare, Early/Later Period
ENGL 304	Chaucer
ENGL 306	Milton
ENGL 307	Introduction to Old English
ENGL 308	Spenser
ENGL 311	Middle English Literature
ENGL 314	Non-Dramatic Literature of the Renaissance
ENGL 317	Seventeenth-Century English Literature
ENGL 318	Eighteenth-Century English Literature
ENGL 321	The Romantic Period
ENGL 323	The Victorian Period
ENGL 325	Modern British Literature
ENGL 327/328	British Novel I/II
ENGL 337	British Drama to 1642
ENGL 340	Restoration and Eighteenth-Century Drama

### Special Topics (if appropriate) in literature, art, architecture, drama, and/or music; e.g.:

ARTH 290	Art and Theatre in London
ARTH 340	Art, Architecture, and Preservation in Britain/ Urbanism in Britain
ENGL 395	Quest for Arthur's Britain
MUSC 222	Exploring the Arts and Culture of Scotland
MUSC 444	Music in Performance in Scotland and at the Edinburgh Festival
THTR 289	Art and Theatre in London

Bilateral Exchange Courses at Bath-Spa University College, Buckinghamshire New University, University of Lincoln, and University of Nottingham; USM British Studies Consortium Courses based at King's College, London

### British Empire (3 credits)

Choose one three-credit course from the following:

ARTH 241	History of the Art of India
ENGL 342	Colonial and Revolutionary American Literature
ENGL 358	Colonial and Postcolonial British Literature

HIST 264	Caribbean to 1800
HIST 265	Caribbean since 1800
HIST 273	Modern Africa
HIST 285	Indian Subcontinent since 1500
HIST 301	Colonial America
HIST 302	Era of the American Revolution
POLS 331	Politics of Film and Reality in South Africa
POLS 339	Special Topics in Comparative Politics (if appropriate)
POLS 367	Geography of International Conflict
POLS 379	Special Topics in International Relations (if appropriate)

Special Topics (if relevant to British Empire/Dominions); e.g., HIST 361 Gandhi; Bilateral Exchange Courses at Bath-Spa University College, Buckinghamshire New University, University of Lincoln, and University of Nottingham; USM British Studies Consortium Courses based at King's College, London

### Integrative Capstone (3 credits)

Choose one of the following options:

BRST 400	Capstone in British Studies
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### Bachelor's Essay/Senior Paper/Independent Study

By director's permission, may also include relevant and equivalent Bilateral Exchange Courses at Bath-Spa University College, Buckinghamshire New University, University of Lincoln, and University of Nottingham; USM British Studies Consortium Courses based at King's College, London.

## Comparative Literature

Phone: 843-953-6715

### Director/Coordinator: Martine-Cuvillier-Hiers

This interdisciplinary minor analyzes literature from different time periods, across national and linguistic boundaries and focuses on aspects of literature that a national approach might ignore or not be equipped to treat properly. Examining literature within an international context constitutes an important dimension to the study of literature.

### Requirements

Minor Hours: 19

#### Core courses:

CPLT 200	Introduction to Comparative Literature
CPLT 400	Capstone

#### Two courses selected from the following\*:

CPLT 390 on page 163	Special Topics in Comparative Literature
ENGL 203	Survey of European Literature I
ENGL 204	Survey of European Literature II
ENGL 233	Survey of Non-Western Twentieth-Century Literature <b>or</b>
ENGL 234	Survey of Third World Masterpieces
LTFR 250	Francophone Literature in Translation
LTSP 252	Contemporary Latin American Literature in Translation

*\*Either ENGL 233 or ENGL 234 count toward meeting the requirements of this section of the minor, but not both.*

### Three additional courses from at least two different departments, selected from the following list.

*(Please note: a maximum of two film courses may be applied to the minor; some special topics courses not in the list below may also count toward the minor, if approved by the program director.)*

#### Arabic

LTAR 250	Arabic Literature in (English) Translation
LTAR 350	Arabic Literature in (English) Translation

#### Chinese

LTCH 250	Chinese Literature in (English) Translation
LTCH 350	Chinese Literature in (English) Translation

#### Classics

CLAS 103	Classical Mythology
CLAS 253	Ancient Epic
CLAS 254	Classical Drama: Tragedy
CLAS 255	Classical Drama: Comedy
CLAS 256	Ancient Satire
CLAS 270	The Romans in Cinema
CLAS 301	Topics in Ancient Greek Literature
CLAS 302	Topics in Latin Literature

#### English

ENGL 201	British Literature to 1800
ENGL 202	British Literature since 1800
ENGL 203	Survey of European Literature I
ENGL 204	Survey of European Literature II
ENGL 207	Survey of American Literature to the Present
ENGL 212	The Cinema: History and Criticism
ENGL 216	Introduction to African American Literature
ENGL 233	Survey of Non-Western Twentieth-Century Literature
ENGL 234	Survey of Third World Masterpieces
ENGL 240	Science Fiction
ENGL 290	Special Topics
ENGL 301	Shakespeare: The Early Period
ENGL 302	Shakespeare: The Later Period
ENGL 304	Chaucer
ENGL 306	Milton
ENGL 307	Introduction to Old English
ENGL 308	Spenser
ENGL 311	Middle English Literature: Non-Chaucerian
ENGL 313	African American Literature
ENGL 314	Non-Dramatic Literature of the Renaissance
ENGL 317	The Seventeenth Century
ENGL 318	The Eighteenth Century
ENGL 320	Literature for Adolescents
ENGL 321	The Romantic Period
ENGL 323	The Victorian Period
ENGL 325	Modern British Literature
ENGL 326	Irish Literature
ENGL 327	The British Novel I

ENGL 328	The British Novel II	<i>Greek</i>	
ENGL 335	Modern Poetry	GREK 371	Readings in Greek Literature: Poetry
ENGL 336	Women Writers	GREK 372	Readings in Greek Literature: Prose
ENGL 337	British Drama to 1642	GREK 390	Special Topics
ENGL 338	Modern Drama	GREK 490	Seminar: Special Topics in Ancient Greek
ENGL 340	Restoration and 18th-Century Drama	<i>Hebrew</i>	
ENGL 341	Literature of the American South, 1900-Present	LTHB 250	Hebrew Literature in (English) Translation
ENGL 342	Colonial and Revolutionary American Literature	<i>Italian</i>	
ENGL 343	American Renaissance: 1830-1870	LTIT 250	Italian Literature in (English) Translation
ENGL 346	Contemporary American Fiction	LTIT 350	Italian Literature in (English) Translation
ENGL 349	American Novel to 1900	ITAL 361	Survey of Italian Literature I
ENGL 350	Major Authors	ITAL 362	Survey of Italian Literature II
ENGL 351	Studies in American Film	ITAL 370	Studies in Italian Film and Literature
ENGL 352	Major African Writers	LTIT 450	Italian Literature in English Translation
ENGL 353	African Women Writers	ITAL 452	20th-Century Italian Literature
ENGL 354	Jewish-American Literature	<i>Japanese</i>	
ENGL 355	The American Short Story	LTJP 250	Japanese Literature in (English) Translation
ENGL 356	American Novel: 1900-1965	LTJP 350	Japanese Literature in (English) Translation
ENGL 357	Contemporary British Literature	LTJP 450	Japanese Literature in (English) Translation
ENGL 358	Colonial and Postcolonial British Literature	<i>Latin</i>	
ENGL 359	Contemporary American Poetry	LATN 301	Introduction to Latin Literature
ENGL 360	Major Literary Themes	LATN 305	Medieval Latin
ENGL 370	Major Literary Genres	LATN 321	Cicero
ENGL 390	Studies in Film	LATN 322	Vergil
ENGL 395	Special Topics	LATN 323	Roman Historiography
	<i>French</i>	LATN 371	Roman Comedy
LTFR 150	French Literature in (English) Translation	LATN 372	Roman Satire
LTFR 250	Francophone Literature in Translation	LATN 373	Roman Biography
FREN 320	Survey of Francophone Literature	LATN 390	Special Topics in Latin
FREN 321	Survey of French Literature	LATN 490	Special Topics in Latin
FREN 326	Survey of Francophone Civilization	<i>Music</i>	
FREN 327	Survey of French Civilization	MUSC 337	Opera Literature
FREN 370	Studies in French Film and Literature	<i>Portuguese</i>	
FREN 431	The Middle Ages and Renaissance in France	LTPO 250	Portuguese Literature in (English) Translation
FREN 432	The 17th Century	LTPO 350	Portuguese Literature in (English) Translation
FREN 434	The 18th Century	LTPO 450	Portuguese Literature in (English) Translation
FREN 435	Literature of the 19th Century I	<i>Religion</i>	
FREN 437	Twentieth-Century French Literature	RELS 201	The Hebrew Bible
FREN 443	The Novel in France	RELS 202	The New Testament
FREN 451	African Literature of French Expression	RELS 205	Sacred Texts of the East
FREN 452	Literature of the Maghreb	RELS 310	Sacred Texts
FREN 482	French and Francophone Women Writers	RELS 360	Myth, Ritual, and Symbol
	<i>German</i>	<i>Russian</i>	
LTGR 150	German Literature in (English) Translation	LTRS 150	Russian Literature in (English) Translation
LTGR 250	German Literature in (English) Translation	LTRS 250	Russian Literature in (English) Translation
LTGR 270	Studies in German Film	LTRS 270	Studies in Russian Film
GRMN 365	Introduction to German Literature	LTRS 350	Russian Literature in (English) Translation
LTGR 450	German Literature in (English) Translation	LTRS 450	Russian Literature in (English) Translation
GRMN 460	German Literary Heritage		
GRMN 468	Studies in Modern German Literature		
GRMN 472	Studies in German Cinema		

*Spanish*

LTSP 150	Spanish Literature in (English) Translation
LTSP 250	Spanish Literature in (English) Translation
LTSP 252	Contemporary Latin American Literature in Translation
LTSP 256	Latin American Literature and Film
SPAN 320	Introduction to the Study of Hispanic Literature
LTSP 350	Literature in (English) Translation
SPAN 361	Survey of Spanish Literature I
SPAN 362	Survey of Spanish Literature II
SPAN 371	Survey of Spanish-American Literature I
SPAN 372	Survey of Spanish-American Literature II
LTSP 450	Spanish Literature in (English) Translation
SPAN 451	18th- and 19th-Century Spanish Literature
SPAN 452	20th-Century Spanish Literature
SPAN 453	Don Quijote de La Mancha
SPAN 454	Contemporary Spanish-American Poetry
SPAN 455	Contemporary Spanish-American Fiction
SPAN 456	Contemporary Spanish-American Theatre
SPAN 457	Early Colonial Spanish-American Texts
SPAN 458	Contemporary Hispanic-Caribbean Theater
SPAN 473	The Golden Age
SPAN 474	Contemporary Spanish Theater
SPAN 475	Medieval Literature of the Iberian Peninsula

*Theatre*

THTR 212	History of the American Theatre
THTR 214	Modern American and European Drama
THTR 310	Theatre History and Literature to 1750
THTR 311	Theatre History and Literature after 1750
THTR 316	African American Theatre
THTR 387	The Contemporary Theatre

## Crime, Law and Society

Phone: 843-953-6547

### Director/Coordinator: Ann Stein

The Crime, Law and Society minor is intended to provide students with the knowledge and experience necessary to understand the origins of criminal behavior, the consequences of crime for society and the legal responses societies develop to combat crime. This interdisciplinary minor allows students to take courses in political science, sociology, psychology, philosophy and history as well as interdisciplinary courses on the topic. In addition to traditional coursework, students are required to complete an internship.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

POLS 220	Criminal Justice
SOCY 341	Criminology
CRLS 400	Internship in Crime, Law, and Society

### Electives (9 hours):

Three courses selected from the following. No more than six hours may be taken in any one discipline. Three courses designated as CRLS may be taken or repeated with the program director's approval.

CRLS 200	Crime, Law, and Society Field Experience*
CRLS 300	Special Topics in Crime, Law, and Society
CRLS 310	Policing in a Modern Society
CRLS 311	Community Policing
CRLS 401	Crime, Law, and Society Advanced Field Experience*
HIST 211	American Urban History <b>or</b>
POLS 306	Urban Policy <b>or</b>
SOCY 351	Urban Sociology
HIST 307	History of the United States: Cold War America, 1945-present
PHIL 206	Topics in Law and Morality
PHIL 270	Philosophy of Law <b>or</b>
POLS 344	Jurisprudence
POLS 221	Law and Society
POLS 342	Civil Liberties
POLS 352	Gender, Theory and Law: Sexual Harassment
POLS 353	Beginning Mock Trial <b>or</b>
POLS 354	Advanced Mock Trial
POLS 383	Judicial Behavior
PSYC 221	Abnormal Psychology
PSYC 223	Social Psychology <b>or</b>
SOCY 331	Society and the Individual
PSYC 344	Psychology of Substance Abuse <b>or</b>
SOCY 348	Sociology of Alcohol and Drugs
SOCY 342	Juvenile Delinquency
SOCY 361	Child Welfare
WGST 350	Gender and Violence

\*NOTE: Variable credit courses

## Discovery Informatics

Phone: 843-953-5730

### Director/Coordinator: Chris Starr

The discovery informatics minor provides students an introduction to the field by developing their quantitative abilities in statistics and in data mining and giving students a broad overview of the field with some practical applications of data mining, programming, and databases.

The primary goal of the discovery informatics minor is to increase the quantitative and analytical learning outcomes to students of all degree programs at the College who complete the minor. The curriculum of the minor exposes students to the nature of discovery informatics and builds a small skill set in data mining.

## Requirements

**Minor Hours: 19-20**

### Discovery Informatics (6 credit hours)

DISC 101	Introduction to Discovery Informatics (3)
DISC 210	Dataset Organization and Management (3)

### Computer Science (4 credit hours)

CSCI 220	Computer Programming I (3)
CSCI 220L	Programming I Laboratory (1)

### Mathematics (9-10 credit hours)

MATH 105	Calculus for Business and the Social Sciences (3) <b>or</b>
MATH 120	Introductory Calculus (4)
MATH 250	Statistical Methods I (3)
MATH 355	Bayesian Statistical Inference (3)

## Environmental Studies

Phone: 843-953-7143

### Director/Coordinator: Tracy Burkett

The environmental studies minor is offered for students who have an interest in learning more about the natural environment and the ecology of the planet, as well as understanding the relationship of political, social, cultural, and economic activities to that environment.

*NOTE: This minor is not intended to be a vocational track to equip students for careers in environmental areas.*

## Requirements

**Minor Hours: 19 hours** (from the following three categories)

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

### I. Natural Sciences and Mathematics Environmental Courses

*Three or more courses (at least nine hours) plus prerequisites selected from:*

BIOL 204	Man and the Environment
BIOL 209	Marine Biology, with lab
BIOL 340	Zoogeography
BIOL 341	General Ecology, with lab
BIOL 342	Oceanography, with lab
BIOL 360	Introduction to Biometry
BIOL 406	Conservation Biology
BIOL 410	Applied & Environmental Microbiology, with lab
BIOL 444	Plant Ecology
BIOL 503	Special Topics in Ecology
CHEM 522	Environmental Chemistry
CHEM 522L	Environmental Chemistry Lab
CHEM 526	Introduction to Nuclear and Radiochemistry
CHEM 528	Nuclear and Radiochemistry
GEOL 103	Environmental Geology, with lab
GEOL 107	Introduction to Coastal and Marine Geology
GEOL 213	Natural Hazards
GEOL 257	Marine Geology
GEOL 275	Geomorphology, with lab

GEOL 312	Environmental Field Methods, with lab
GEOL 320	Earth Resources
GEOL 438	Hydrogeology, with lab
GEOL 449	Geographical Information Systems, with lab
MATH 250	Statistical Methods I
MATH 260	Mathematical Modeling & Public Decision Making
PHYS 105	Introduction to Meteorology
PHYS 308	Atmospheric Physics
PHYS 456	Air Pollution Meteorology
PHYS 457	Satellite Meteorology
PHYS 458	Climate Change

Special topics courses offered by departments may be approved on a course-by-course basis.

*NOTE: Only one course in the student's major department may be applied to the minor. Only one mathematics course may be chosen.*

### II. Social Sciences and Humanities Environmental Courses

*Two courses (plus prerequisites) selected from:*

ANTH 316	Ecological Anthropology
ANTH 318	Theories for the Origin of Agriculture
ECON 311	Environmental Economics
PHIL 150	Nature, Technology and Society
PHIL 155	Environmental Ethics
PHIL 245	Environmental Philosophy
POLS 307	Environmental Policy
POLS 364	International Environmental Politics
PSYC 329	Environmental Psychology
SOCY 346	Environmental Sociology
SOCY 352	Population and Society
SOCY 355	Science, Technology, and Society

Special topics courses offered by departments may be approved on a course-by-course basis.

*NOTE: Only one course in the student's major department may be applied to the minor.*

### III. Interdisciplinary Environmental Courses

*At least four semester hours including:*

ENVT 200	Introduction to Environmental Studies
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*One additional ENVT course selected from:*

ENVT 350	Independent Study in Environmental Science and Studies
ENVT 352	Special Topics in Environmental Science and Studies
ENVT 355	Environmental Studies Field Internship
ENVT 395	Interdisciplinary Environmental Studies Seminar

## European Studies

Phone: 843-953-5930

### Director/Coordinator: William Olejniczak

European studies is an interdisciplinary area studies minor that introduces students to the diverse cultures and nations of Europe through the study of history, literature, languages, visual arts, economics, business, politics, religion and society.

**Requirements**

Minor Hours: 18

**Cluster A: History and Ideas (3 credit hours)****Cluster B: Languages, Literature, Culture (3 credit hours)****Cluster C: Economics, Politics, Society (3 credit hours)****Electives (6 credit hours)****European Studies 400 Capstone Course (3 credit hours)**

*NOTE: Six credit hours of electives must be taken from Cluster A, B, or C with the following restrictions: no more than 6 credit hours from one cluster, no more than 3 credit hours from one discipline, and no more than 6 credit hours devoted to the study of one country may count towards the 18-hour minor. In order to complete this minor, students will take HIST 101 and 102 (or HONS 120 and 130) or their equivalents and a European language.*

*NOTE: Each semester, departments offer relevant special topics courses. When appropriate, special topics courses will count towards the minor. Students should consult with the director of the program to determine if a special topics course may count towards the minor. Students may also need to fulfill prerequisites before they take certain upper-level courses in some departments.*

**Cluster A: History and Ideas**

Choose one 3-credit-hour course from the following:

HIST 231	Ancient Greece
HIST 232	Ancient Rome
HIST 234	Early Middle Ages
HIST 235	High Middle Ages
HIST 242	History of Modern France
HIST 244	Political and Social History of Germany from 1866 to Present
HIST 245	Tsarist Russia to 1796
HIST 246	Imperial Russia to 1917
HIST 252	Women in Europe
HIST 256	History of Science and Technology
HIST 258	European Jewish History: Medieval to Modern
HIST 291	Disease, Medicine, and History
HIST 334	European Social History to 1800
HIST 336	Italian Renaissance
HIST 337	The Age of Reformation
HIST 341	Age of Enlightenment and Revolution
HIST 344	Modern European Cultural History
HIST 345	Modern German Cultural and Intellectual History
HIST 346	History of the Soviet Union
HIST 354	Tudor England, 1485–1603
HIST 355	Stuart England, 1603–1714
HIST 356	Georgian Britain
HIST 357	Victorian Britain
PHIL 201	History of Ancient Philosophy
PHIL 202	History of Modern Philosophy
PHIL 203	Philosophy of Human Nature
PHIL 205	Existentialism
PHIL 240	Jewish Philosophy
PHIL 250	Marxism
PHIL 304	19th-Century Philosophy
PHIL 306	20th-Century Analytical Philosophy

PHIL 307	20th-Century Continental Philosophy
RELS 202	The New Testament: History and Interpretation
RELS 225	The Jewish Tradition
RELS 230	The Christian Tradition
RELS 335	Western Esotericism
SOCY 260	Development of Social Thought

**Cluster B: Languages, Literature, Culture (3 credit hours)**

Choose one 3-credit-hour course from the following.

COMM 382	Theories of Rhetoric
ENGL 201	British Literature to 1800
ENGL 202	British Literature since 1800
ENGL 203	Survey of European Literature I
ENGL 204	Survey of European Literature II
ENGL 301	Shakespeare: The Early Period
ENGL 302	Shakespeare: The Later Period
ENGL 304	Chaucer
ENGL 306	Milton
ENGL 307	Introduction to Old English
ENGL 308	Spenser
ENGL 311	Middle English Literature: Non-Chaucerian
ENGL 312	History of the English Language
ENGL 314	Non-Dramatic Literature of the Renaissance
ENGL 317	The Seventeenth Century
ENGL 318	The Eighteenth Century
ENGL 321	The Romantic Period
ENGL 323	The Victorian Period
ENGL 325	Modern British Literature
ENGL 326	Irish Literature
ENGL 327	The British Novel: I
ENGL 328	The British Novel: II
ENGL 335	Modern Poetry
ENGL 337	British Drama to 1642
ENGL 340	Restoration and 18th-Century Drama
ENGL 350	Major Authors
ENGL 357	Contemporary British Literature
ENGL 360	Major Literary Themes
LTFR 150	French Literature in (English) Translation
LTGR 150	German Literature in (English) Translation
LTGR 250	German Literature in Translation
LTGR 270	Studies in German Film
LTGR 450	German Literature in (English) Translation
LTIT 150	Italian Literature in (English) Translation
LTIT 250	Italian Literature in (English) Translation
LTIT 350	Italian Literature in (English) Translation
ITAL 370	Studies in Film and Italian Literature (English)
LTIT 450	Italian Literature in (English) Translation
LTRS 150	Russian Literature in (English) Translation
LTRS 250	Russian Literature in (English) Translation
LTRS 270	Studies in Russian Film
LTRS 350	Russian Literature in (English) Translation
LTRS 450	Russian Literature in (English) Translation
CLAS 242	Images of Women in Classical Antiquity

CLAS 253	Ancient Epic	FREN 434	The 18th Century*
CLAS 254	Tragedy	FREN 435	Literature of the 19th Century I*
CLAS 255	Comedy	FREN 437	Literature of the 20th Century*
CLAS 256	Ancient Satire	FREN 443	The Novel in France*
CLAS 270	The Romans in Cinema	FREN 482	French and Francophone Women Writers*
CLAS 301	Topics in Ancient Greek Literature	GRMN 320	Special Assignment Abroad*
CLAS 302	Topics in Latin Literature	GRMN 325	German Contemporary Issues*
CLAS 303	Topics in Classical Civilization	GRMN 326	German Media*
ARTH 220	History of Greek and Roman Art	GRMN 328	German Language Study Abroad*
ARTH 225	Medieval Art	GRMN 329	Current Issues in Germany or the German-Speaking World*
ARTH 265	The City as a Work of Art	GRMN 365	Introduction to Literature*
ARTH 277	Renaissance Art	GRMN 424	German Civilization and Culture*
ARTH 280	History of Baroque Art	GRMN 460	German Literary Heritage*
ARTH 285	Modern Art	GRMN 468	Studies in Modern German Literature*
ARTH 301	Studies in Ancient and Medieval Art	GRMN 472	Studies in German Cinema*
ARTH 303	Studies in Renaissance and Baroque Art	GREK 203	New Testament Greek*
ARTH 306	Studies in Modern, Contemporary, and Film Arts	GREK 371	Readings in Greek Literature: Poetry*
ARTH 350	History of Early Christian and Byzantine Art	GREK 372	Readings in Greek Literature: Prose*
ARTH 355	History of Early Medieval and Romanesque Art	ITAL 328	Italian Language Study Abroad*
ARTH 360	History of Gothic Art	ITAL 361	Survey of Italian Literature I*
ARTH 362	History of Medieval Manuscript Illumination	ITAL 362	Survey of Italian Literature II*
ARTH 365	History of Northern Renaissance Painting	ITAL 452	20th-Century Italian Literature*
ARTH 370	History of Italian Early Renaissance Art	LATN 301	Introduction to Latin Literature*
ARTH 375	History of Italian High and Late Renaissance Art	LATN 305	Medieval Latin*
ARTH 381	Spanish Baroque Painting and Sculpture	LATN 321	Cicero*
ARTH 385	History of European Painting, 1700-1850	LATN 322	Virgil*
ARTH 389	19th-Century European Art	LATN 323	Roman Historiography*
ARTH 390	20th-Century European Art	LATN 371	Roman Comedy*
ARTH 394	History of 18th- and 19th-Century Architecture	LATN 372	Roman Satire*
ARTH 395	History of 20th-Century Architecture	LATN 373	Roman Biography*
MUSC 230	Masterworks of Music Literature	SPAN 318	Spanish for International Business*
MUSC 337	Opera Literature	SPAN 320	Introduction to the Study of Hispanic Literature*
MUSC 381	Music History I	SPAN 322	Civilization and Culture of Spain I*
MUSC 382	Music History II	SPAN 323	Civilization and Culture of Spain II*
MUSC 481	Music Theory III	SPAN 328	Spanish Language Study Abroad*
MUSC 482	Music Theory IV	SPAN 329	Current Issues in Spain or the Spanish-Speaking World*
THTR 310	Theatre History and Literature to 1750	SPAN 361	Survey of Spanish Literature I*
THTR 311	Theatre History and Literature after 1750	SPAN 362	Survey of Spanish Literature II*
THTR 318	History of Fashion and Manners	SPAN 446	History of the Spanish Language*
THTR 387	The Contemporary Theatre	SPAN 451	18th- and 19th-Century Spanish Literature*
THTR 388	Dramatic Theory and Criticism	SPAN 452	20th-Century Spanish Literature*
FREN 220	Special Assignment Abroad*	SPAN 453	Don Quijote de La Mancha*
FREN 320	Survey of Francophone Literature*	SPAN 473	The Golden Age*
FREN 321	Survey of French Literature *	SPAN 474	Contemporary Spanish Theatre*
FREN 326	Survey of Francophone Civilization*	SPAN 475	Medieval Literature of the Iberian Peninsula*
FREN 327	Survey of French Civilization*		
FREN 330	Collateral Study*		
FREN 360	French Language Study Abroad*		
FREN 361	Current Issues in France or the French-Speaking World*		
FREN 363	Advanced French Culture*		
FREN 370	Studies in French Film and Literature*		
FREN 431	The Middle Ages and Renaissance in France*		
FREN 432	The 17th Century*		

*\*Please note: courses marked with an asterisk are taught in that language.*

#### **Cluster C: Economics, Politics, Society (3 credit hours)**

*Choose one 3-credit-hour course from the following:*

ANTH 326	Peoples and Cultures of Europe
ECON 308	Evolution of Economic Doctrines
ECON 310	International Economics
ECON 330	Comparative Economic Systems

FREN 380	Le Concept de Marketing*
FREN 381	French for World Business I*
FREN 382	French for World Business II*
GRMN 331	German for Business*
GRMN 332	German in International Business*
INTB 314	Management of Global Technology
INTB 322	International Business
INTB 409	Global Strategic Management
MGMT 325	International Management
MGMT 391	The International Corporation: A Comparative Approach
MKTG 326	International Marketing
POLS 334	Geographies and Politics of the European Union
SPAN 316	Applied Spanish*
TRAN 432	Global Logistics Systems Management

\*Please note: courses marked with an asterisk are taught in that language.

European Studies Capstone: 3 hours

## Film Studies

Phone: 843-953-4957

**Director/Coordinator: John Bruns**

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

(6 hours of core courses, plus 12 hours of approved elective courses)

### Core curriculum:

ENGL 212	The Cinema: History and Criticism
ENGL 351	Studies in American Film

*Note: In addition to the courses listed below, certain independent studies, tutorials, and special topics courses dealing specifically with film may also count toward the film minor, as determined by the film studies advisor on a case-by-case basis.*

### World Cinema/World Cultures (at least 3 hours):

ARTH 340	ST: Recent European Cinema <b>or</b>
ARTH 340	ST: New Wave Cinema <b>or</b>
ARTH 340	ST: Film Noir/Neo-Noir
CLAS 270	The Romans in Cinema
FREN 370	Studies in French Film and Literature
GRMN 472	Studies in German Cinema
LTGR 270	Studies in German Film
LTIT 270	Introduction to Italian Cinema
LTIT 370	Studies in Italian Cinema
LTPO 270	Studies in Brazilian Film
LTRS 270	Studies in Russian Film
LTSP 256	Latin American Literature and Film
POLS 331	The Politics of Film and Reality in South Africa
POLS 332	The Politics of Film and Reality in Latin America
POLS 339	Politics, Film, and Africa

### Specialized Topics in Film and Other Media (at least 3 hours):

ARTH 392	The Camera and Visual Perception
ARTH 293	Introduction to Film Art
COMM 383	Media Criticism
COMM 405	Independent Study in Communication
COMM 499	Writing a Screenplay <b>or</b>
THTR 350	Screenwriting
ENGL 390	Studies in Film
ENGL 399	Tutorial <b>or</b>
ENGL 404	Independent Study
PHIL 185	Philosophy in Film
RELS 280	Religion and Film
THTR 350	Selected Topics in Communication Production

## French Studies

Phone: 843-953-6529

**Director/Coordinator: Norbert Sclipa**

The French studies minor is an interdisciplinary approach to contemporary France and the Francophone world.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

### Required course:

LTFR 250	Francophone Literature in Translation
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### Select two courses from:

FREN 326	Survey of Francophone Civilization
FREN 327	Survey of French Civilization
HIST 242	History of Modern France
HIST 341	Age of Enlightenment and Revolution

### Select three courses from:

ANTH 326	Peoples and Cultures of Europe
ARTH 385	European Painting from 1700 to 1850
ENGL 203	Survey of European Literature
FREN 360	French Language Study Abroad
FREN 361	Current Issues in France and the French-Speaking World
FREN 370	Study in French Film and Literature
FREN 451	African Literature of French Expression
FREN 490	Special Topics in French
HIST 347	Special Topics in Modern European History
HIST 343	Europe Since 1939
MUSC 337	Opera Literature
PHIL 205	Existentialism
PHIL 307	20th-Century Continental Philosophy
POLS 334	Geog. & Politics of European Union
THTR 387	The Contemporary Theater

## German Studies

Phone: 843-953-5464

**Director/Coordinator: Nancy Nenno**

The German studies minor provides in-depth study of German history, literature, culture, society, and business, including socio-political issues in reunited Germany and a look at the societies of contemporary Switzerland and Austria. Students may select courses taught in English or German, depending on their interests and abilities

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

LTGR 250 or LTGR 270 is required. Other courses must be selected from the list below.

ARTH 365	History of Northern Renaissance Painting
HIST 244	Political and Social History of Germany from 1866 to the present
HIST 258	European Jewish History: Medieval to the 20th Century
HIST 344	Modern European Cultural History
HIST 345	Modern German Cultural and Intellectual History
MUSC 230	Masterworks of Music Literature
PHIL 205	Existentialism
PHIL 304	Nineteenth-Century Philosophy
PHIL 307	Twentieth-Century Continental Philosophy
POLS 334	Geog. & Politics of European Union
LTGR 250	German Literature in Translation
LTGR 270	Studies in German Film

GRMN All courses at or above the 300 level

*NOTE: Any additional courses, including special topics courses not listed in the Undergraduate Catalog and which pertain to the field of German studies, may count towards the minor, with the approval of the director of German studies.*

## International Studies

Phone: 843-953-5701

**Director/Coordinator: Douglas Friedman**

The international studies minor is an elective program which provides a structured course of study designed to acquaint students with the international community. Completion of this minor course of studies will provide an important background for individuals planning careers in government, private enterprise, or non-governmental institutions.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

**Core: Nine hours to include:**

INTL 100 Introduction to International Studies and one course from each of the following two categories:

### A. Interdisciplinary Studies

ASST 101	Introduction to Asian Studies
AFST 101	Introduction to African Studies
LACS 101	Introduction to Latin American and Caribbean Studies
CPLT 200	Introduction to Comparative Literature

### B. International Politics, History, Geography, Culture and Literature

POLS 103	World Politics
HIST 104	World History since 1500
GEOG 101/ POLS 104	World Regional Geography
RELS 105	World Religions
ENGL 233	Survey of Non-Western 20 <sup>th</sup> Century Literature <b>or</b>
Any 200-level Foreign Literature in Translation survey course (i.e., LTOP, LTRS, LTFR, etc.)	

**Electives: 9 hours**

Nine hours directed toward a specific non-US geographic area (for example, Europe, Africa, Latin America, Asia, Middle East, etc.) or theme (for example, international human rights; international economy; international security, etc.) determined in consultation with the student's International Studies advisor.

## Italian Studies

Phone: 843-953-5489

**Director/Coordinator: Massimo Maggiari**

The Italian Studies minor is an elective program which provides a structured course of study designed to acquaint students with Italian history, culture, and civilization, as well as sociopolitical problems of contemporary Italy. The minor is an 18 credit interdisciplinary program which requires work primarily in Italian. Such a minor should include 3 courses in advanced Italian and 3 courses in related fields. Elective courses may be chosen from a number of fields, including English, Art History, Italian Literature in translation, Italian Cinema, History, and Music. Students select courses with their major advisor and have their minor approved by the coordinator of the Italian program who also becomes the students' advisor in the minor.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

The 18 hours must be above ITAL 202 or ITAL 250.

**Core Courses: Nine hours, with six from the following two courses:**

ITAL 313	Italian Conversation & Composition I
ITAL 314	Italian Conversation & Composition II

**And** three hours selected from the following courses in Italian literature and culture in translation:

LTIT 250	Italian Poetry
LTIT 270	Introduction to Italian Cinema
LTIT 350	Dante in Translation
LTIT 370	Studies in Italian Cinema

LTIT 450 Italian Literature in Translation

**Electives: nine hours selected from any LTIT courses or the following:**

ARTH 277	Renaissance Art
ARTH 280	Baroque Art
ARTH 370	History of Italian Early Renaissance Art
ARTH 375	History of Italian High & Late Renaissance Art
ENGL 203	Survey of European Literature (through the Renaissance)
HIST 336	Italian Renaissance
MUSC 337	Opera Literature
ITAL 300+	All courses at or above the 300 level.

*Note: Prerequisites are required for many of the courses needed for a minor.*

## Japanese Studies

Phone: 843-953-7821

**Director/Coordinator: Yoshiki Chikuma**

The Japanese studies minor is a structured course of study designed to acquaint students with Japanese language, civilization, and culture.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

**Two courses selected from the following core courses:**

JPNS 313	Japanese Conversation and Composition I
JPNS 314	Japanese Conversation and Composition II

**Electives:***Four courses selected from:*

ARTH 103	History of Asian Art
ARTH 243	History of the Art of Japan
HIST 286	History of Japan to 1800
HIST 287	History of Modern Japan
JPNS 343	Advanced Japanese Conversation and Composition
JPNS 390	Special Topics
LTJP 250	Japanese Literature in (English) Translation
LTJP 350	Japanese Literature in (English) Translation
LTJP 390	ST: Japanese Literature in (English) Translation
POLS 323	Politics of East Asia
RELS 248	Religious Traditions of China and Japan

## Jewish Studies

Phone: 843-953-5682

**Martin Perlmutter, Director****Larry Krasnoff, Associate Director**

### Faculty

Martin Perlmutter, *Professor*  
 Adam Mendelsohn, Joshua Shanes, *Assistant Professors*  
 Zipora Wagner, *Instructor*

Theodore Rosengarten, *Zucker/Goldberg Chair in Holocaust Studies*

The goal of the Yaschik/Arnold Jewish Studies Program Jewish Studies major is to enable students to understand the diversity and complexity of the Jewish experience. Students will acquire a sophisticated understanding of the historical, religious, philosophical, literary, sociological, and linguistic components that constitute the Jewish experience, as well as an armory of interpretative and analytical skills that can be applied within and across a broad range of disciplines. The program includes the Zucker/Goldberg Center for Holocaust Studies, and each year hosts a distinguished faculty member to occupy the Arnold Visiting Chair. The Sylvia Vlosky Yaschik Jewish Studies Center is home to a small Judaica library, faculty offices, lounges and meeting facilities that foster academic, cultural and social aspects of Jewish Studies and Jewish student life. The College's Addlestone library houses the Jewish Heritage Collection, world-class archives on southern Jewish history and culture that offers research resources of exceptional depth to students and scholars.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

**REQUIRED:**

JWST 210 Jewish History

Courses should be selected with the approval of the director or assistant director.

ENGL 354	Jewish-American Literature
FYSM 142*	First-Year Seminar in Jewish Studies
HBRW 101	Elementary Modern Hebrew I
HBRW 102	Elementary Modern Hebrew II
HBRW 201	Intermediate Modern Hebrew I
HBRW 202	Intermediate Modern Hebrew II
HBRW 313	Advanced Modern Hebrew: Conversation and Composition
HBRW 314	Advanced Modern Hebrew: Conversation and Composition
HIST 213	American Jewish History: Colonial Times to the Present
HIST 244*	History of Germany from 1866 to the Present
HIST 344*	Modern European Cultural History
HIST 345*	Modern German Cultural and Intellectual History
HIST 359	Modern Jewish History: French Revolution to the Present
JWST 200	The Jewish Tradition
JWST 215	Jewish History II
JWST 230	The Holocaust
JWST 240	Jewish Philosophy
JWST 245/ ENGL 191	Introduction to Jewish-American Literature
JWST 300	Special Topics in Jewish Studies
JWST 310	Topics in Jewish History
JWST 315	Southern Jewish History
JWST 320	Topics in American Jewish Culture
JWST 325	Jewish Mysticism
JWST 330	Representations of the Holocaust

JWST 335	Modern Jewish Politics
JWST 400	Independent Study in Jewish Studies
JWST 450	Research Seminar in Jewish Studies
PHIL 255*	Philosophy of Religion
POLS 324	Politics of the Middle East
POLS 339*	Special Topics in Comparative Politics
RELS 201	The Old Testament: History and Interpretation
RELS 225	The Jewish Tradition
RELS 310*	Sacred Texts

\*NOTE: These courses must have specifically Jewish content to count towards the Jewish Studies Minor.

## Language and International Business

Phone: 843-953-5723

### Director/Coordinator: Godwin Okebaram Uwah

This is a cross-disciplinary minor available to students in any discipline. The minor is of particular interest to business majors unable to take the full range of language courses for a double major, and to language majors trying to gain an insight into basic business and business culture without taking full range of courses in business. The minor has special appeal to students in programs such as communication, political science, art history, etc., seeking an understanding of business language and culture to widen the field of application for their majors. Students whose major is one of the modern languages must take 18 credit hours in business administration, economics, or accounting. Similarly, students whose major is in the School of Business must take an additional 18 credit hours in a modern language. A total of 18 hours is required for this minor.

### Requirements

#### Languages Requirements: 18 hours

At least nine hours in the minor at the 300 level or above must be earned at the College of Charleston.

#### French

FREN 313 or 314	French Composition and Grammar
FREN 327	Survey of French Civilization or
FREN 328	Study Abroad
FREN 380	Le Concept de Marketing
FREN 381	French for World Business I or
FREN 382	French for World Business II

Two additional courses in French at the 300/400 level

#### German

GRMN 313 or 314	Conversation and Composition
GRMN 325	German Contemporary Issues
GRMN 328	Studies Abroad or
GRMN 329	Current Issues in German
GRMN 331	German for Business or

GRMN 332	German in International Business
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Two additional courses in German at the 300/400 level

#### Spanish

SPAN 313	Spanish Composition and either
SPAN 314	Spanish Conversation or
SPAN 312	Spanish as a Heritage Language (required for heritage/near-native speakers) or
SPAN 328	Spanish Language Study Abroad or
SPAN 350	Intensive Conversation and Composition
SPAN 316	Applied Spanish or
SPAN 318	Spanish for International Business
SPAN 320	Introduction to the Study of Hispanic Literature

#### One course selected from the following:

SPAN 322	Civilization and Culture of Spain I
SPAN 323	Civilization and Culture of Spain II
SPAN 326	Latin American Civilization and Culture I
SPAN 327	Latin American Civilization and Culture II
SPAN 329	Current Issues Abroad

One additional course in Spanish at the 300/400 level

#### School of Business Requirements: 18 hours

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

ACCT 203	Financial Accounting
MGMT 301	Management and Organizational Behavior or
MKTG 302	Marketing Concepts
INTB 322	International Business or
ECON 310	International Economics

#### Nine credit hours in international courses from:

INTB 314	Management of Global Technology
ECON 303	Economics of Transportation and Geography
FINC 382	International Financial Markets
MGMT 308	Managing Diversity
INTB 322	International Business or
ECON 310	International Economics
MGMT 325	Comparative International Management
MKTG 326	International Marketing
TRAN 311	Intermodal Transportation

All students should constantly check with the program director.

NOTE: Students from disciplines other than languages and business should consult with the program director to determine the configuration of their credit hours.

## Latin American and Caribbean Studies

Phone: 843-953-5701

Director/Coordinator: Douglas Friedman

This interdisciplinary minor and program will expose students to the cultures, history, politics, economy, and languages of our Latin American and Caribbean neighbors.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

Not more than nine of the required credit hours may be in any one discipline (excluding LACS).

*NOTE: Students are encouraged to fulfill their language requirement in Spanish, Brazilian Portuguese, or French. Students are encouraged to spend one summer or semester in a study abroad program in Latin America or the Caribbean.*

### Required course:

LACS 101 Introduction to Latin American and Caribbean Studies

### Two courses selected from:

ANTH 325	Peoples and Cultures of Latin America
ANTH 327	Peoples and Cultures of the Caribbean
ARTH 205	Pre-Columbian Art and Culture
HIST 262	Colonial Latin America
HIST 263	Modern Latin America
HIST 264	Caribbean to 1800
HIST 265	Caribbean Since 1800
HIST 364	Sugar and Slaves in Colonial Brazil
HIST 365	Modern Brazil
LACS 103	Introduction to Contemporary Cuba
LACS 104	Introduction to Contemporary Chile
LACS 105	Introduction to Contemporary Brazil
LACS 106	Introduction to Contemporary Argentina
LTPO 150	Portuguese Literature in (English) Translation
LTPO 250	Portuguese Literature in (English) Translation: A Foreign Literature
LTPO 270	Studies in Brazilian Film
LTPO 280	Studies in Brazilian Civilization and Culture Through Literature
LTPO 350	Portuguese Literature in (English) Translation: A Foreign Author
LTPO 450	Portuguese Literature in (English) Translation: Comparative Literature
LTSP 252	Contemporary Latin American Literature in Translation
LTSP 254	Society, History, and Culture in Spanish-American Literature
LTSP 256	The Magic and The Real in Latin American Literature and Film
POLS 321	Politics of Latin America
POLS 333	The Politics of Contemporary Brazil
POLS 335	Cuban Revolution
SPAN 326	Latin American Civilization and Culture I or
SPAN 327	Latin American Civilization and Culture II

### Electives (including the above):

ANTH 362	Social and Cultural Change
ANTH 328	Aztecs, Maya, and Their Ancestors
ARTH 255	Latin American Colonial Art

ENGL 233	Survey of Non-Western Twentieth-Century Literature
ENGL 234	Survey of Third World Masterpieces
ENGL 358	Colonial and Postcolonial British Literature
FREN 320	A Survey of Francophone Literature
FREN 326	A Survey of Francophone Civilization
HIST 261	Special Topics in Asia, Africa and Latin America
HIST 266	Aztecs, Maya, and Their Ancestors
HIST 361	Special Topics in Asia, Africa and Latin America
HIST 366	Comparative Slavery in the Americas
HIST 461	Research Seminar in Asia, Africa, and Latin America
LACS 200	Special Topics in Latin American and Caribbean Studies
LACS 300	Special Topics in Latin American and Caribbean Studies
LACS 400	Independent Study in Latin American and Caribbean Studies
POLS 328	Modernization, Dependency, and Political Development
POLS 332	Politics of Film and Reality in Latin America
POLS 366	Model Organization of American States
SOCY 362	Social and Cultural Change
SPAN 315	Special Assignment Abroad
SPAN 328	Spanish Language Study Abroad
SPAN 329	Current Issues in Spain or the Spanish-Speaking World
SPAN 371	Survey of Spanish-American Literature I
SPAN 372	Survey of Spanish-American Literature II
SPAN 447	Spanish Dialectology
SPAN 454	Contemporary Spanish-American Poetry
SPAN 455	Contemporary Spanish-American Fiction
SPAN 456	Contemporary Spanish-American Theatre
SPAN 457	Early Colonial Spanish-American Texts
SPAN 458	Contemporary Hispanic-Caribbean Theater

## Linguistics

Phone: 843-953-8066

### Director/Coordinator: Elizabeth Martínez-Gibson

Linguistics is an interdisciplinary minor designed to examine the importance of language in all aspects of life and to contribute to the students' expansion of the understanding of the global community. Linguistics is the study of language in its many different disciplines and environments. It is no longer simply a study of the theoretical issues of pronunciation and grammar, but it is also a study of how we acquire language, the learning process, societal effects, the evolution of language, the behavioral patterns involved, the importance of language in the computer age, and the biological aspects of language. The idea of this minor is to bring together all of these disciplines with one common theme, language. Through this field of study it is the intent that students will realize the importance of language in all fields of study and will be able to apply their knowledge in their careers and everyday life to communicate and understand the world as a whole.

### Requirements

Minor Hours: 18

Students will take the following sequence of courses for a total of eighteen (18) credits:

**Introduction to Language and Linguistics (3 credits)****Two courses from "Languages and Society" (6 credits):**

ANTH 205	Language and Culture
COMM 210	Introduction to Communication Theory
COMM 220	Interpersonal Communication
COMM 221	Intercultural Communication
COMM 380	Studies in Communication (when appropriate to the area of language and linguistics)
HIST 272	Pre-Colonial Africa
INTR 510	Language and Culture (Spanish specific, permission of the instructor required for undergraduates)
PSYC 358	Non-Verbal Communication
PSYC 378	Psychology of Language
SPAN 447	Spanish Dialectology
SPAN 448	Spanish Sociolinguistics
SPAN 590	Spanish Linguistics – Special Topics (with special permission)

*Note: Any new courses, additional courses, or special topics in the area of socio- or psycholinguistics will be considered on an individual basis.*

**One course from "Structured Linguistics" (3 credits):**

CSCI 325	Declarative Programming Languages
CSCI 410	Automata and Formal Languages
ENGL 303	Modern English Grammar
FREN 342	Advanced Grammar
FREN 341	Phonetics and Advanced Language Study
GRMN 341	Advanced Grammar and Syntax
LALE 601	Applied Linguistics (with special permission)
SPAN 344	Spanish Grammar and Lexicon
SPAN 381	Introduction to Spanish Linguistics
SPAN 443	Spanish Morphology
SPAN 445	Spanish Phonetics and Phonology
SPAN 590	Spanish Linguistics – Special Topics (with special permission)
PHIL 120	Symbolic Logic
PHIL 335	Philosophy of Language

*Note: Any new courses, additional courses, or special topics in the area of descriptive language will be considered on an individual basis.*

**One course from "Historical Linguistics" (3 credits):**

ENGL 307	Introduction to Old English
ENGL 312	History of the English Language
HIST 272	Pre-Colonial Africa
SPAN 446	History of the Spanish Language
SPAN 447	Spanish Dialectology

*NOTE: Any new courses or special topic courses related to the history or evolution of language will be considered on an individual basis.*

One elective from any of the above areas or an independent study based on the approval of the director of the minor program, the department chair, and the faculty member involved (3 credits).

*\*\*\* LING 290 is a Special Topics course, which can be used to introduce a linguistic course of interest.*

*\*\*\*FREN 630 Seminars in French Language Studies (with special permission); Director must approve topic for the minor.*

This program will benefit the following programs:

- All language students
- SNAP program, by providing additional alternative courses for language.
- The School of Education, Health, and Human Performance, in the area of ESL and Special Education.

*NOTE: Courses transferred to the College that count for requirements in different departments, must contain one-third linguistic content (similar to those courses taught here), to satisfy the minor requirement.*

## Neuroscience

Phone: 843-953-5504

### Co-Directors: Christopher Korey (Biology) and Michael Ruscio (Psychology)

The neuroscience minor is designed to provide students with a full-spectrum approach to understanding how the brain and nervous system work in the expression of behavior. The field of neuroscience is a hybrid that integrates biology with psychology while drawing from other academic areas. This program fulfills the interdisciplinary nature of the field of neuroscience by allowing students to take neuroscience-related courses in the sciences, social sciences, and humanities in addition to core courses offered by the Departments of Biology and Psychology. In order to adequately prepare students for future careers in neuroscience-related fields, students are required to complete two semesters of independent research on a neuroscience-related topic.

### Requirements

Minor Hours: 24-26

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

### All of the following core courses:

15 credit hours

BIOL 351/ PSYC 351	Principles of Neurobiology
BIOL 352/ PSYC 352	Neurobiology and Behavior
BIOL 447/ PSYC 447	Seminar in Neuroscience
BIOL 448/ PSYC 448	Bachelor's Essay in Neuroscience (6 hours)

### One of the following specialized neuroscience electives: 3 hours

PSYC 356	Introduction to Behavioral Genetics
PSYC 386	Behavioral Pharmacology
PSYC 387	Neuropsychology
PSYC 410	Special Topics (when content covers neuroscience, see program director)
BIOL353/ PSYC 353	Hormones and Behavior
BIOL 446/ PSYC 446	Special Topics in Neuroscience
PHYS 296/ BIOL 396	Biophysical Modeling of Excitable Cells

**Two of the following general electives (plus pre-requisites): 6-8 hours\***

*\*The two electives must be taken outside the declared major in order to fulfill the interdisciplinary nature of the minor. At least one of these electives must be offered by the Department of Biology or Department of Psychology.*

*Anthropology (may also be used to fulfill the general education requirement)*

ANTH 333	Human Evolution
ANTH 334	Human Variation and Adaptation
ANTH 335	Primate Behavior and Evolution
ANTH 342	Human Behavior and Evolution

*Biology*

BIOL 305	Genetics
BIOL 312	Molecular Biology
BIOL 313	Cell Biology
BIOL 321	General and Comparative Physiology
BIOL 322	Developmental Biology
BIOL 343	Animal Behavior

*Chemistry*

CHEM 351	Biochemistry
CHEM 352	Biochemistry II

*Computer Science*

CSCI 470	Principles of Artificial Intelligence
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*Discovery Informatics*

DISC 101	Introduction to Discovery Informatics
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*Philosophy (may also be used to fulfill the general education requirement)*

PHIL 170	Biomedical Ethics
PHIL 260	Philosophy of Biology
PHIL 265	Philosophy of Science
PHIL 330	Philosophy of Mind

*Physics*

PHYS 203	Physics and Medicine
PHYS 270	Nanotechnology in Medicine
PHYS 320	Introduction to Electronics
PHYS 230	Introduction to Modern Physics
PHYS 340	Photonics

*Psychology*

PSYC 215	Cognitive Psychology
PSYC 307	Abnormal Psychology
PSYC 216	Sensation and Perception
PSYC 317	Motivation
PSYC 318	Comparative Psychology
PSYC 336	States of Consciousness

*NOTE: Only one course from the minor can be applied towards the student's major.*

## Russian Studies

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Phone: 843-953-5776

**Director/Coordinator: Raisa Gomer**

After the disintegration of the Soviet Union, Slavic countries in Eurasia opened their borders allowing an unprecedented exchange of ideas, culture and business throughout the world. The Russian Studies Program has developed as a multidisciplinary course of study combining the Russian language with courses related to Russian civilization, culture, history, politics and economics. The program is designed to provide students with the language skills, cultural exposure, and historical background needed to understand and interact with the citizens of these newly available countries both in the international community and at home.

**Requirements**

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

**Six hours in Russian language selected from:**

RUSS 201	Intermediate Russian
RUSS 202	Intermediate Russian
RUSS 313	Russian Conversation and Composition I
RUSS 314	Russian Conversation and Composition II

**Three hours in Russian literature or film selected from:**

LTRS 110	Russian Folktales in Translation
LTRS 150	Russian Literature in Translation
LTRS 210	19th Century Russian Literature
LTRS 220	20th Century Russian Literature
LTRS 250	Russian Literature in Translation
LTRS 270	Studies in Russian Film
LTRS 350	Russian Literature in Translation
LTRS 450	Russian Literature in Translation

**Three hours in Russian history and politics selected from:**

HIST 245	Czarist Russia to 1796
HIST 246	Imperial Russia to 1917
HIST 258	European Jewish History
HIST 343	Europe Since 1939
HIST 346	History of the Soviet Union
POLS 329	Politics of Protest and Revolution
POLS 360	International Relations
POLS 362	Case Studies in Foreign Policy

**Electives: Six additional hours in Russian language, literature, film, history, politics or art, selected from the courses listed above and/or from:**

ARTH 350	History of Early Christian and Byzantine Art
ARTH 390	20th century European Art
RUSS 295	Russian for Mass Media
RUSS 330	Collateral Studies
RUSS 331	Business Russian
RUSS 390	Special Topics in Russian

## Women's and Gender Studies

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Phone: 843-953-2280

**Director/Coordinator: Alison Piepmeier**

Women's and Gender Studies is an interdisciplinary major in which students explore gender identities, relations, practices, theories and institutions. Courses examine gender roles and relations, women's cultural contributions, the social, historical, political, and economic status of women, the intersection of race, class, and gender issues, and theoretical concerns about the relation of gender to knowledge. Women's and Gender Studies courses are offered in every school on campus. Many may be used to satisfy the College's general education requirements in the social sciences and the humanities.

### Requirements

Minor Hours: 18

At least nine hours in the minor at the 200 level or above must be earned at the College of Charleston.

WGST 200 Introduction to Women's and Gender Studies

*NOTE: WGST 200 should be taken early in the minor, preferably as one of the first three courses. This course can satisfy a humanities degree requirement.*

### Five courses\*\* from the following:

ANTH 346	Anthropology of Gender
CLAS 242	Images of Women in Classical Antiquity
COMM 370	Gender and Communication
ENGL 336	Women Writers
ENGL 353	African Women Writers
HEAL 217	Human Sexuality
HEAL 317	Sexual Behavior and Relationships
HEAL 323	Women's Health Issues
HIST 221	Women in the United States
HIST 252	Women in Europe
PHIL 165	Philosophy and Feminism
PHIL 275	Feminist Theory
POLS 330	Comparative Gender Politics
POLS 352	Gender, Theory, and Law: Sexual Harassment
POLS 392	Women and Politics
PSYC 350	Psychology of Gender
RELS 185	Women and Religion
RELS 285	Religion and Feminism
SOCY 103	Sociology of the Family
SOCY 337	Prejudice
SOCY 364	Gender and Society
WGST 300	Special Topics
WGST 350	Gender and Violence
WGST 356	Conservative Voices in Women's and Gender Studies
WGST 381	Internship
WGST 400	Independent Study
WGST 401	Capstone in Women's and Gender Studies

*NOTE: No more than two courses may be taken in any single department except those courses designated as WGST.*

*\*\*Certain special topics courses from the various departments may also be counted towards the minor requirements. Please consult the instructor or the director of the Women's and Gender Studies Program.*

# Courses

## Legend of Course Abbreviations

AAST	African American Studies	HTMT	Hospitality and Tourism Management
ACCT	Accounting	INTB	International Business
AFST	African Studies	INTL	International Studies
AMST	American Studies	ITAL	Italian
ANTH	Anthropology	JPNS	Japanese
ARBC	Arabic	JWST	Jewish Studies
ARTH	Art History	LACS	Latin American and Caribbean Studies
ARTM	Arts Management	LATN	Latin
ARTS	Studio Art	LIBR	Library
ASST	Asian Studies	LING	Linguistics
ASTR	Astronomy	LTX	Literature in Translation
ATEP	Athletic Training	MATH	Mathematics
BIOL	Biology	MGMT	Management and Entrepreneurship
BLAW	Business Law	MKTG	Marketing and Supply Chain Management
CHEM	Chemistry and Biochemistry	MUSC	Music
CHNS	Chinese	MUSP	Music - Practice and Performance
CITA	Computing in the Arts	PEHD	Physical Education
CLAS	Classics	PHIL	Philosophy
COMM	Communication	PHYS	Physics
CPLT	Comparative Literature	POLS	Political Science
CRLS	Crime, Law, and Society	PORT	Portuguese
CSCI	Computer Science	PSYC	Psychology
DISC	Discovery Informatics	REAL	Real Estate
DSCI	Decision Science	RELS	Religious Studies
ECON	Economics	RUSS	Russian
EDEE	Elementary and Early Childhood Education	SOCY	Sociology
EDFS	Foundations, Secondary, and Special Education	SPAN	Spanish
EDLS	Learning Strategies	SPOL	Spoleto
EDMG	Middle Grades Education	TEDU	Teacher Education
ENGL	English	THTR	Theatre
ENTR	Entrepreneurship	TRAN	Transportation
ENVT	Environmental Studies	URST	Urban Studies
EUST	European Studies	WGST	Women's and Gender Studies
FINC	Finance		
FREN	French		
FYSM	First Year Seminar		
GEOG	Geography		
GEOL	Geology and Environmental Geosciences		
GREK	Greek (Ancient)		
GRMN	German		
HBRW	Hebrew		
HEAL	Health and Human Performance		
HISP	Hispanic Studies		
HIST	History		
HNDI	Hindi		
HONS	Honors		
HPCP	Historic Preservation and Community Planning		

## Accounting Courses

### ACCT 203 Financial Accounting (3)

A survey of accounting information essential for external parties to make business decisions about an organization.

*Prerequisite:* Sophomore standing.

### ACCT 204 Managerial Accounting (3)

A survey of accounting information critical for planning, control and business decision-making within an organization.

*Prerequisite:* ACCT 203; sophomore standing.

### ACCT 307 Accounting Information Systems (3)

This course covers the concepts and techniques of the design, control, implementation and auditing of accounting information systems, with an emphasis on internal controls and reporting. In addition, new information technology (IT) and its application to accounting and auditing will also be introduced.

*Prerequisites:* Junior standing; ACCT 203.

### ACCT 308 Cost Accounting (3)

Cost concepts and techniques used by manufacturing and service organizations in accumulating cost data for product costing purposes with emphasis on joborder and process cost systems, standard cost systems and the problem of cost allocation. Also covered are the planning tools of budgeting and cost-volume-profit analysis.

*Prerequisites:* Junior standing; ACCT 203, 204.

### ACCT 316 Intermediate Accounting I (3)

Accounting principles for income, investments, asset valuation, financial statement presentation as related to current assets, current liabilities and non-current assets.

*Prerequisites:* Junior standing; ACCT 203, 204.

### ACCT 317 Intermediate Accounting II (3)

Income measurement, valuation, statement presentation and terminology problems as related to liabilities and stockholders equity, changes in capital, pensions, leases, income taxes,

accounting changes and error analysis, cash versus accrual, incomplete data problems and related contemporary financial accounting issues.

*Prerequisites:* Junior standing; ACCT 203, 204, 316.

### ACCT 336 Governmental and Not-for-Profit Accounting (3)

The accounting principles used by state and local governmental units and financial and tax accounting issues facing not-for-profit organizations such as hospitals, colleges and voluntary health and welfare organizations are examined.

*Prerequisites:* Junior standing; ACCT 203, 204.

### ACCT 341 Federal Taxation I (3)

A study of federal income taxation as applied to individuals and sole proprietorships.

*Prerequisites:* Junior standing; ACCT 203, 204.

### ACCT 342 Federal Taxation II (3)

A study of federal taxation as applied to partnerships, corporations, trusts and exploration of federal gift and estate taxes.

*Prerequisites:* Junior standing; ACCT 203, 204, and 341.

### ACCT 360 Special Topics in Accounting (1-3)

An in-depth treatment of a current area of special concern within the field of accounting.

*Prerequisites:* Junior standing, and other prerequisites as required.

### ACCT 409 Auditing Theory (3)

Role of independent auditors, their legal responsibilities, professional ethics, auditing standards, internal control, statistical sampling, basic auditing techniques and limited consideration of the role of the internal auditor are examined.

*Prerequisites:* Senior standing; ACCT 203, 204, 316; ACCT 317. ACCT 317 co-requisite by permission of the instructor.

### ACCT 444 Accounting Internship (1-3)

A supplemental source of learning to the student's academic program through experiential education. The internship experience will be guided by a learning

contract outlining expectations and academic components.

*Prerequisite:* Senior standing as a declared Accounting major in the School of Business and Economics

## African American Studies Courses

### AAST 200 Introduction to African American Studies (3)

This course is an interdisciplinary approach to the African American experience in the United States. Using a model developed by African American Studies pioneer Maulana Ron Karenga that focuses on history, religion, politics, economics, sociology, psychology and the creative arts as the essential topics in the study of the African American experience, this course provides students an understanding of the African American perspective in these areas.

Primary sources by African American writers and scholars are also used to support this perspective and introduce students to the latest literature and research on the African American experience.

### AAST 300 Special Topics (3)

An examination of an area of African American Studies for which no regular course is offered. This course may be repeated for credit if the content is different. The specific content will be listed when the course is offered.

### AAST 381 African American Studies Internship (1-4)

An opportunity for students to integrate research with professional experience through supervised field placement in areas related to the study of African American history and culture. Students will produce specific assignments that reflect agreed upon learning goals under the direction of the director of African American Studies or a program faculty member.

*Prerequisites:* The student must have completed AAST 200, have sophomore standing, be an African American Studies minor, and have the permission of the African American Studies director. The student must also be in academic and

personal good standing with the College of Charleston.

*Note: This course may count for humanities or social science credit, depending upon the nature of the internship.*

#### **AAST 400 Independent Study (3)**

Individually supervised readings and study of some work, problem, or topic in African American studies of the student's interest. A project proposal must be submitted in writing and approved by the director prior to registration for the course.

*Prerequisites:* The student must have completed AAST 200, have sophomore standing, be an African American Studies minor, and have the permission of the African American Studies director. The student must also be in academic and personal good standing with the College of Charleston.

*Note: This course may count for humanities or social science credit, depending upon the nature of the internship.*

## **African Studies Courses**

#### **AFST 101 Introduction to African Civilization (3)**

An interdisciplinary survey of the history, geography, literature, culture, politics and economics of the peoples and nations of the continent of Africa.

#### **AFST 202 Special Topics in African Studies (3)**

## **American Studies Courses**

#### **AMST 200 Introduction to American Studies (3)**

An integrated and interdisciplinary study which relates a broad range of American cultural forms – arts, literature and philosophy, formal and popular – to the specific historical experiences and development of the United States from the colonial era to the present. The course introduces the concept and methodology of American studies and explores six major themes (natural environment and the frontier; people and immigration; government and constitutionalism; urbanization and industrialism; the

American dream; and America and the world).

#### **AMST 300 Special Topics in American Studies (3)**

An intensive examination of a specific topic. The specific topic will be listed with the course when offered.

#### **AMST 400 Seminar in American Studies (3)**

This interdisciplinary seminar applies perspectives of the humanities and the social sciences in an intensive investigation of a particular period and/or a central theme of American studies.

*Prerequisites:* AMST 200 and at least one 200 or 300 level course in American literature, arts, history or social science, or permission of the instructor.

## **Anthropology Courses**

#### **ANTH 101 Introduction to Anthropology (3)**

An introduction to the study of humankind, including archaeology, ethnology, linguistics and biological anthropology.

#### **ANTH 109 Special Topics in Anthropology (1-4)**

Occasional courses offered at the introductory level on subjects of interest in anthropology to students and faculty that are not included in the regular course offerings.

#### **ANTH 201 Cultural Anthropology (3)**

A comparative review of the principles used in social organization among various peoples of the world. Non-Western societies and their transformations through contact with the West will be examined.

#### **ANTH 202 Introduction to Archaeology (3)**

An introduction to basic theory and methods in the archaeological recovery and interpretation of past cultural remains.

#### **ANTH 203 Introduction to Biological Anthropology (4)**

An introduction to the study of human evolution including a survey of human variation, our relationship to other primates and the interaction of biology and culture. Lectures three hours per week; laboratory three hours per week.

#### **ANTH 205 Language and Culture (3)**

A study of language in its social and cultural context. Relationships between language and the transmission of meaning, world view and social identity will be examined.

#### **ANTH 210 Development of Anthropological Thought (3)**

A survey of major theories that anthropologists use to explain human social and cultural behavior. Recommendation - should be taken within first 15 hours of the major.

*Prerequisite:* ANTH 101 or permission of the instructor.

#### **ANTH 290 Anthropology Field Experience (1-3)**

Anthropological field experience to be paired with appropriate course where the classroom study of anthropology will benefit from supplemental experiences outside the classroom or where more individualized instruction is necessary in a lab/field setting.

#### **ANTH 300 Archaeological Lab Methods (1)**

An introduction to basic archaeological lab methods, techniques, and goals. Instruction will be provided in artifact processing and identification, quantitative and qualitative analysis, map construction and interpretation and artifact conservation. Students will be exposed to both prehistoric and historic period material culture.

*Prerequisite:* ANTH 202 or permission of the instructor.

#### **ANTH 302 Archaeology of North America (3)**

A survey of what is known archaeologically of the diverse prehistoric societies of North America from first settlement before 12,000 B.C. up to European contact and beyond.

*Prerequisite:* ANTH 101 or ANTH 202 or permission of the instructor.

#### **ANTH 303 Paleolithic Archaeology (3)**

This course entails a survey of human cultural evolution from its earliest beginnings until the end of the Pleistocene Ice Ages (2.5 mya – 10,000 years ago). The basis for the course is a culture history for Pleistocene archaeological materials in two principal regions: Africa and Europe. In addition to a culture history, processual issues such as the origins of culture, the evolution of

cognitive behavior and changing human land use patterns will be discussed in some detail.

*Prerequisite:* ANTH 101 or ANTH 202 or permission of the instructor.

### **ANTH 304 Rise of Complex Civilization (3)**

Using the archaeological record, Rise of Complex Civilization surveys human cultural evolution leading up to the rise of complex society after the Pleistocene (10,000–3,000 BP). The basis of the course is a culture history for early/pre-farming cultures in the Near East and Europe. In addition to a culture history, processual issues such as the nature of post-Pleistocene human adaptations, the origins of food production, the spread of agriculture, the rise of stratified societies and the development of complex political organizations will be considered in detail.

*Prerequisite:* ANTH 101 or ANTH 202 or permission of the instructor.

### **ANTH 305 Prehistoric Ritual and Art (3)**

This course examines prehistoric forms of ritual and art, their interpretation, and their evolutionary and behavioral significance within an archaeological framework. Students are introduced to prehistoric ritual and art throughout the Old and New Worlds – their form, content, and chronological evolution. This course reviews and assesses competing interpretive frameworks, with emphasis on understanding the social and ideological context within which prehistoric ritual and art were produced and comprehended.

*Prerequisite:* ANTH 101 or a 100-level ARTH course or ANTH 202 or permission of the instructor.

### **ANTH 306 Historical Archaeology (3)**

An introduction to the archaeology of recent sites for which we have some written documentation, focusing upon how archaeologists interpret these sites using two separate but equal classes of information: archaeological artifacts (especially ceramics) and historical documents, with the goal of understanding past lifeways.

### **ANTH 307 Southeastern Prehistoric Archaeology (3)**

The course examines prehistoric cultures of the Southeastern US from the first migrations to European contact. The class

proceeds in a traditional, chronological fashion from Paleo through Contact periods with an emphasis on recent archaeological discoveries and interpretations and current questions and controversies within each time frame.

### **ANTH 309 Special Topics in Archaeology (1-4)**

Occasional courses offered on subjects of archaeological interest to students and faculty that are not included in the regular course offerings.

*Prerequisite:* ANTH 101, ANTH 202, or permission of the instructor.

### **ANTH 314 Anthropological Perspective on Time (3)**

An examination of the various conceptions of time to be found in different cultures. Particular attention will be paid to the way different cultural conceptions of time are related to ecology, subsistence and social organization.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 316 Ecological Anthropology (3)**

A study of the relationship between cultures and their physical/ecological environments.

*Prerequisite:* ANTH 101 or permission of the instructor

### **ANTH 318 Theories for the Origin of Agriculture (3)**

An examination of the development of agriculture from hunting and gathering to food production and its association with the development of "civilization." Theories for the origin of agriculture with particular attention to demographic arguments and co-evolutionary perspectives will be studied.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 319 Special Topics in Anthropology (1-4)**

Occasional courses offered on subjects of interest to students and faculty that are not included in the regular course offerings.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 320 Peoples and Cultures of North America (3)**

A survey of the pre- and post-contact history of Native American peoples in the major cultural areas of North America.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 322 Peoples and Cultures of Africa (3)**

A review of the major socio-cultural developments in prehistoric and historic Africa.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 323 African American Society and Culture (3)**

A survey of African American society and culture beginning with the African homeland and ending with an exploration of contemporary issues facing New World African communities. Credit cannot be received for both ANTH 323 and SOCY 363.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 325 Peoples and Cultures of Latin America (3)**

A review of major socio-cultural developments in Latin America, past and present. Emphasis will be placed on Mesoamerica.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 326 Peoples and Cultures of Europe (3)**

A review of major socio-cultural developments in historic and modern Europe. Emphasis will be placed on modern peasant societies.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 327 Peoples and Cultures of the Caribbean (3)**

An examination of the history of the people of the Caribbean and the development of their diverse cultural traditions.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 328 Aztecs, Maya, and Their Ancestors (3)**

This course is a multi-disciplinary approach to the study of Mesoamerica (Mexico and Central America) up to, and

including, the arrival of the Spaniards in 1519. Although beginning with the peopling of this hemisphere, the emphasis is on the advanced civilizations of the Olmec, Teotihuacanos, Zapotec, Mixtec, Maya and Aztec.

*Prerequisite:* ANTH 101 or ANTH 202 or permission of the instructor.

### **ANTH 329 Special Topics: Geographic Areas (3)**

A survey of the major socio-cultural developments of a particular geographic area from a prehistoric, historic and modern view.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 333 Human Evolution (3)**

A review of the evidence for human evolution from nonhuman primate ancestors to the end of the Paleolithic. Emphasis will be placed on the fossil and archaeological evidence for human biocultural evolution over the past two million years and the methods used to test evolutionary hypotheses about our origins.

*Prerequisite:* ANTH 101 or BIOL 102 or GEOL 105 or ANTH 203 or permission of the instructor.

### **ANTH 334 Human Variation and Adaptation (3)**

A study of human biological variation and adaptation. Topics include human polymorphisms, quantitative traits, growth and development of the human organism, and human population genetics. Special emphasis will be on human adaptation and evolution as explanatory principles in understanding human variation and a historical critical analysis of the concept of race as an organizing principle for classification of human beings.

*Prerequisite:* ANTH 101 or BIOL 102 or ANTH 203 or GEOL 105 or permission of the instructor.

### **ANTH 335 Primate Behavior and Evolution (3)**

A survey of the behavior and ecology of the Order Primates, with special emphasis on the evolution and adaptive value of behavior. Another major theme is a critical perspective on the use of nonhuman primates as models for human biology and behavior with an attempt to place such studies in an appropriate context.

*Prerequisite:* ANTH 101 or BIOL 102 or PSYC 103 or ANTH 203 or permission of the instructor.

### **ANTH 336 Osteology and Forensics (3)**

Students will obtain knowledge of the anatomy of the human skeleton, including the identification, and analysis of fragmentary skeletal material. Students will be introduced to basic, forensic analyses by participating in a Forensic Anthropology project consisting of labeling, cataloguing, aging and sexing a box of skeletal materials of a forensic case from our collection.

### **ANTH 340 Medical Anthropology (3)**

This course is the cross-cultural study of health, illness, and healing. Topics discussed in this course include the ecology of health and disease; changing patterns of birth, disease, death and nutrition; ethnomedicine and medical specialists; and evolutionary medicine.

*Prerequisite:* ANTH 101 or ANTH 203 or permission of the instructor.

### **ANTH 341 Culture and the Individual (3)**

A comparative study of personality, child rearing, cognition, mental disorders, altered states of consciousness and gender identity. Theory and research methods of psychological anthropologists will also be examined.

*Prerequisite:* ANTH 101 or PSYC 103 or permission of the instructor.

### **ANTH 342 Human Behavior and Evolution (3)**

This course examines human behavioral diversity from an evolutionary perspective including topics such as human behavioral ecology, parental investment, paternal certainty, menopause, senescence, health and illness and religion.

*Prerequisite:* ANTH 101 or 203 or permission of the instructor.

### **ANTH 345 Applied Anthropology (3)**

An examination of the practical uses of anthropological methods, concepts and theories to bring about technological, cultural, economic or social change.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 346 Anthropology of Gender (3)**

An examination of male and female gender roles in society from a cross-cultural perspective.

*Prerequisite:* ANTH 101 or WGST 200 or permission of the instructor.

### **ANTH 352 Folklore of Ireland and the British Isles (3)**

This course assesses how anthropologists use folklore to theorize about the complexities of human experience. Classic debates, theoretical approaches and strategies of interpreting folklore are examined. Irish cultural forms such as religious beliefs and practices, verbal art, material culture and music are explored.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 356 Anthropological Perspectives on Religion (3)**

A comparative perspective on religion as a system of spiritual beliefs and practices found in all cultures. Particular attention will be given to the way in which a culture's religion is related to its environment, subsistence activities and social organization. Theories on the origin and nature of religion will be discussed.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 362 Social and Cultural Change (3)**

A cross-cultural comparative study of theories on social and cultural change, socioeconomic development, micro- and macro-change, culture change and the world system and globalization. This course draws upon ethnographic examples and case studies from all over the world.

*Prerequisite:* ANTH 101 or permission of the instructor.

### **ANTH 381 Internship (1-6)**

An opportunity for students to have a supervised field placement in areas related to the field of anthropology such as museums, marine archaeology and urban archaeology.

*Prerequisites:* Completion of at least 6 hours in the anthropology major or minor, GPA of 3.0 in anthropology, an overall GPA of 2.5, and permission of the instructor. (Course prerequisites may

vary depending on the nature of the placement.)

#### **ANTH 382 Student Research Apprenticeship in Anthropology (1-6)**

Qualified students supervised by faculty engage in collaborative research with faculty. Activities may include interviews, observations, data collection and analysis; interpreting data, writing articles and presenting research at professional conferences. Repeatable up to 6 hours.

*Prerequisites:* GPA of 3.0 in anthropology, a major or minor in anthropology, and permission of instructor. Other course prerequisites may vary depending on the nature of the apprenticeship project.

#### **ANTH 383 Student Academic Apprenticeship in Anthropology (1-6)**

Qualified students selected and supervised by faculty engage in activities that facilitate teaching and learning in specific course(s). Activities may include helping with in-class activities and labs, holding discussion or review sessions and answering students' questions. Repeatable up to 6 hours.

*Prerequisites:* GPA of 3.0 in anthropology, a major or minor in anthropology, and permission of instructor. Other course prerequisites may vary depending on the nature of the apprenticeship project.

#### **ANTH 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Completion of at least 6 hours in the anthropology major or minor and permission of the instructor and the department chair.

#### **ANTH 490 Independent Study (1-3)**

Individually supervised readings and study of some anthropological work, problem or topic of the student's interest.

*Prerequisites:* Completion of at least 6 hours in the anthropology major or minor, GPA of 3.0 in anthropology, an overall GPA of 2.5, and permission of the instructor.

#### **ANTH 491 Research Methods (3)**

This course reviews a variety of ways in which anthropological research is

conducted because this department supports the four field approach to the study of anthropology. Particular topics and approaches that will be emphasized may vary.

*Prerequisite:* ANTH 101 and ANTH 210 or permission of the instructor.

#### **ANTH 492 Seminar in Anthropology (1-3)**

An overview of various theoretical areas of anthropology, with stress on student research and methodology.

*Prerequisites:* ANTH 101 and any 200-level course or permission of the instructor.

#### **ANTH 493 Field School in Archaeology (8)**

A comprehensive archaeological field school that meets Register of Professional Archaeologists' standards. Students will participate in ongoing research conducted by The Charleston Museum and will receive systematic in-depth training in all phases of basic archaeological field research including surface survey, excavation, map construction, photography, data interpretation and artifact processing and analysis. Continuous eight-hour/day participation from first day of Maymester through the last day of the Summer I is required for the eight hours of credit.

*Prerequisite:* ANTH 202 or permission of the instructor.

#### **ANTH 494 Field Work (4-8)**

This course offers students a hands on field work opportunity in one of the four fields of anthropology; archaeology, biological, cultural or linguistic anthropology. Course credits reflect number of hours in the field (minimum 200 hours).

*Prerequisite:* Permission of instructor.

#### **ANTH 499 Bachelor's Essay (6)**

A year-long research and writing project during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## Arabic Courses

#### **ARBC 101 Elementary Arabic (4)**

Introduces the fundamental structures of Arabic, with emphasis on acquisition of basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* Open only to beginning students of Arabic.

#### **ARBC 102 Elementary Arabic (4)**

Introduces the fundamental structures of Arabic, with emphasis on acquisition of basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* Placement or ARBC 101.

#### **ARBC 201 Intermediate Arabic (4)**

Develops a basic proficiency in Arabic and familiarity with Arabic culture through practice in the use of basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or ARBC 102.

#### **ARBC 202 Intermediate Arabic (4)**

Develops a basic proficiency in Arabic and familiarity with Arabic culture through practice in the use of basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or ARBC 201.

#### **ARBC 290 Special Topics in Arabic (3)**

A study of selected works of famous Arabic writers.

#### **ARBC 313 Conversation & Composition I (3)**

Intensive practice in the written and spoken language. Assigned readings and compositions. The course will be conducted primarily in Arabic.

*Prerequisite:* ARBC 202 or placement.

#### **ARBC 314 Conversation & Composition II (3)**

Intensive practice in the written and spoken language. Assigned readings and compositions. The course will be conducted primarily in Arabic.

*Prerequisite:* ARBC 313 or placement.

#### **ARBC 330 Collateral Study (1-3)**

Individually supervised course of reading Arabic in the subject area of a concurrent

course offered by another department. The nature and extent of readings will be determined in consultation among student, instructor of the primary subject-matter course, and the language instructor who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to maximum of six credit hours in conjunction with other primary courses.

#### **ARBC 390 Special Topics in Arabic (3)**

Intensive study of a particular subject or theme. Specific topics will be listed in the schedule of courses when offered.

#### **ARST 240 Special Topics In Arabic Studies (3)**

Special Topics in Arabic Studies, taught in English: Studies of specialized topics of broad chronological or thematic range in Arabic Studies for which no regular course is offered. This course may be repeated for credit if the content is different. The specific content will be listed when the course is offered.

#### **ARST 340 Special Topics In Arabic Studies (3)**

Special Topics in Arabic Studies, taught in English: Studies of specialized topics of broad chronological or thematic range in Arabic Studies for which no regular course is offered. This course may be repeated for credit if the content is different. The specific content will be listed when the course is offered.

#### **LTAR 220 Modern Arabic Fiction (3)**

Study of selected works, representing major literary periods and genres (short stories and novel excerpts), which illuminate another language and culture or era of a shared human condition.

#### **LTAR 250 Arabic Literature in (English) Translation (3)**

Study of selected works, representing major literary periods and genres, which illuminate Arabic culture.

#### **LTAR 350 Arabic Literature in (English) Translation (3)**

Study of selected works by an Arabic author whose influence is felt in the world at large

#### **LTAR 450 Arabic Literature in (English) Translation (3)**

A study of selected works by the major authors representing different cultures with emphasis on common themes as

viewed from perspectives of these writers.

## **Art History Courses**

#### **ARTH 101 History of Art: Prehistoric Through Medieval (3)**

A combined visual and historical survey of Western art from prehistoric through medieval times. The techniques, forms, and expressive content of painting, sculpture, and architecture will be studied within the context of the cultural environment in which they were produced.

#### **ARTH 102 History of Art: Renaissance Through Modern (3)**

A combined visual and historical survey of Western art from Renaissance through Modern times. The techniques, forms, and expressive content of painting, sculpture, and architecture will be studied within the context of the cultural environment in which they were produced

#### **ARTH 103 History of Asian Art (3)**

An introduction to the visual arts of Asia, with an emphasis on India, China, and Japan. The techniques, forms, and expressive content of architecture, sculpture, and painting will be studied within the context of the cultural environment in which they were produced.

#### **ARTH 104 Themes in the History of Art (3)**

A thematic introduction to the visual arts from the earliest civilizations to the contemporary period. The form and content of painting, sculpture, and architecture will be studied through a series of themes and purposes, superseding the usual historical and chronological framework of the traditional art history survey.

#### **ARTH 105 Introduction to Architecture (3)**

A survey of the history of Western architecture from Ancient Mesopotamia to the 21st century that will analyze architecture in terms of function, structure, form, and cultural and historical context.

#### **ARTH 190 Special Topics in Art History (3)**

Special topics at the introductory level of art history.

#### **ARTH 205 Pre-Columbian Art and Culture (3)**

Study of the artistic culture of the Americas from its origin until the 16th-century encounter of indigenous pre-Columbian peoples with Europeans. Concentration will be focused upon Mesoamerican civilizations (including the Olmec, Teotihuacanos, Zapotecs, Maya, Toltecs, and Aztecs) and upon Andean civilizations (including Chavin, Moche, and Inca). The course will survey the development and evolution of artistic forms, technique, and iconography in the "New World" and emphasize the cultural, religious, and political context in which works of art and architecture were produced.

#### **ARTH 210 African Art (3)**

A review of African art, emphasizing traditional sub-Saharan sculptural forms, their aesthetic characteristics and cultural context. Briefer references will be made to other major traditions (possibilities include Egypt, Ethiopia, the Maghreb, Madagascar, Islamic traditions, prehistoric art).

#### **ARTH 220 History of Greek and Roman Art (3)**

A study of Greek art from the Minoan civilization through the Hellenistic period, and of Roman art from the Republic through the Empire.

#### **ARTH 225 Medieval Art (3)**

A study of medieval art from the 3rd to the 15th century, including Early Christian and Byzantine art, Early Medieval, Romanesque, and Gothic art. Topics will include the development of religious architecture, monumental sculpture, small-scale sculpture in precious materials, mosaics, painting and manuscript illumination.

#### **ARTH 241 History of the Art of India (3)**

A study of the architecture, sculpture and painting of South Asia from the Indus Valley Civilization to the 20th century, with emphasis on historical, social and religious context. Topics include the prehistoric era, early Buddhist architecture and sculpture, Hindu temples and related arts, rock-cut architecture, and painting traditions of the Islamic and Rajput courts and the colonial and contemporary eras.

**ARTH 242 History of the Art of China (3)**

A study of the arts of China from the Neolithic period through early modern times, with emphasis on historical, social, and religious context. Topics include Neolithic pottery traditions, funerary art of the Shang through Han dynasties, the Buddhist art of China and Chinese painting and ceramics.

**ARTH 243 History of the Art of Japan (3)**

A study of the arts of Japan through early modern times, with emphasis on historical, social, and religious context. Topics include ceramic and architectural traditions of prehistoric Japan, Buddhist architecture, sculpture, and painting; development of the "Japanese Style," Zen art, and the popular art of woodblock prints in pre-modern Japan.

**ARTH 250 American Art (3)**

A survey of American architecture, sculpture, and painting from colonial times to the present, with an emphasis on the relationships of American art to European art, and of American artists to their public.

**ARTH 255 Latin American Colonial Art (3)**

An examination of the art and architecture produced in Latin America from colonial times to the modern era. Concentration will be upon the architecture, sculpture, painting and folk arts produced in both the Spanish and Portuguese "new world" colonies from the 16th century until independence in the 19th century. Attention will also be directed toward a broad survey of modern Latin American artistic movements and discussion of how selected modern artists continue to confront the legacy of the colonial past.

**ARTH 260 Addestone Seminar on the Arts and Culture of the Lowcountry (3)**

Topics related to Lowcountry arts and culture may include Charleston architecture, historic preservation planning, garden and landscape architecture, etc. Maymester

**ARTH 265 The City as a Work of Art (3)**

This course examines the characteristic elements of historical urban form, explaining their presence and meaning, and looking at the ways in which they were modified over time and space. Not a course in urban history, this is, rather, a

study of the history of urbanism, dealing with the physical forms of the urban environment, primarily in Europe and the New World.

**ARTH 275 The History of Land Design (3)**

This course deals with the history of landscape architecture, including urban spaces such as city parks, urban plazas, and both formal and vernacular non-urban landscapes. The course will explore the designs and wider meanings of both Western and non-Western landscapes through human history. Cross-listed with HPCP 275.

**ARTH 277 Renaissance Art (3)**

A study of European art from the 13th through the 16th century, concentrating on the concept of the Renaissance. The works will include painting, sculpture and architecture. Analysis of visual styles and historical context will be emphasized.

**ARTH 280 History of Baroque Art (3)**

Study of the diverse stylistic developments of 17th-century European painting and sculpture. Concentration will be on the major masters of the period, including Caravaggio, Bernini, Rubens, Poussin, Velázquez, Rembrandt, and Vermeer.

**ARTH 285 Modern Art (3)**

An exploration of modern art in Europe from approximately 1850 to 1940, the classic period of modernism. The course will focus on the works of art, artists, and critical terms that are central to understanding modern art – including the importance of formal style, viewer interpretation and the innovation and development of abstraction.

**ARTH 290 Selected Topics in Art History (3)**

Special topics of broad geographical or chronological areas of art history such as African art, art of the '60s, and various travel abroad courses. May be repeated for credit with differing topics.

**ARTH 293 Introduction to Film Art (3)**

This course combines film studies with practical aspects of film/video production. Students will view, discuss, and write critical essays on the works of major filmmakers, and may elect to work on creative projects of directing and acting for the camera.

**ARTH 299 Research and Methods in Art History (3)**

A seminar required for art history majors as an overview of the major methodologies in the history of art, emphasizing critical reading and writing (to be taken in either sophomore or junior year).

*Prerequisite:* Six hours of art history, cannot be taken the senior year, or permission of the instructor.

**ARTH 301 Studies in Ancient and Medieval Art (3)**

Studies of specialized topics in art and architectural history in the field of Ancient and Medieval art (such as "Roman Art and Imperial Ritual," "Royal Glory and the Idea of Iran," "Medieval Art in Britain and Ireland" or "Medieval Art and Pilgrimage"). Topics may include chronological, geographical or thematic studies within the field.

*NOTE: Repeatable up to 9 credits*

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 303 Studies in Renaissance and Baroque Art (3)**

Studies of specialized topics in art and architectural history in the field of Renaissance and Baroque arts (such as "Venetian Painting," "Northern Baroque," "Roman Baroque Painting" or "Caravaggio and His Followers"). Topics may include chronological, geographical or thematic studies within the field.

*NOTE: Repeatable up to 9 credits.*

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 306 Studies in Modern, Contemporary, and Film Arts (3)**

Studies of specialized topics in art and architectural history in the field of modern, contemporary, and film arts (such as "Matisse and Picasso," "New Media in Contemporary Art," "Gender Issues in Contemporary Art," or "Films of the '50s"). Topics may include chronological, geographical or thematic studies within the field.

*NOTE: Repeatable up to 9 credits.*

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 308 Studies in Asian Art (3)**

Studies of specialized topics in art and architectural history in the field of Asian art (such as "Ramayana Themes in South Asian Art," "Studies in Japanese Woodblock Prints of the Edo Period" or "Modern and Contemporary Art in South Asia"). Topics may include chronological, geographical or thematic studies within the field.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 321 Hindu Myth and Image (3)**

This course selectively examines monuments of the Hindu religious tradition in South and Southeast Asia, beginning with the earliest works of Kushana-era India. Works examined include examples of sculpture, architecture, and painting, with a particular emphasis on the relationship between form, symbol, and interpretation.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 322 Indian Painting (3)**

This course introduces students to the broad range of painting in South Asia, from the surviving remains of early mural painting in rock-cut temples to the "miniature paintings" of Mughal, Rajput and Pahari manuscripts of North India, the Colonial period and the 20th century.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 333 Traditional Design and Preservation in Charleston (3)**

This course will introduce students to the many facets of architectural design in traditional modes, and to the use of the design process to foster deeper understanding and appreciation for the historic buildings in Charleston and elsewhere. The course will be taught in a studio format like that used in architecture schools. Student research, design, and presentations will form a significant portion of the course, as will site visits. Lectures will address issues relevant to traditional design, including proportions, ornament nomenclature, architectural theory, and a survey of

design precedents. Projects will include wash and charcoal rendering.

**ARTH 335 History of American Architecture (3)**

A history of architecture in North America. Though beginning with a brief examination of pre-Columbian building and including Canadian examples where useful, the course will focus primarily on American architecture from the period of European settlement to the present.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299 or HPCP 199.

**ARTH 338 American Vernacular Architecture and Material Culture (3)**

This course explores diverse examples of common architecture and material culture in America from earliest settlements up to the present day. The course will investigate the cultural roots of architectural forms and traditions and will also address such topics as cultural landscapes, the development of building technologies, folklore and folklife, and the relationship of the built environment to the natural environment over time.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299 or HPCP 199.

**ARTH 339 Historic Home Interiors (3)**

A survey of architectural elements and furnishings within American domestic interiors, 1607–1950. Lectures focus on specific periods including historical overviews, analysis of characteristic features of houses' composition, plans and interior elements (doors, windows, walls, woodwork, floors, ceilings, staircases, and fireplaces) and the stylistic evolution of furniture relating to the periods.

**ARTH 340 Selected Topics in Art History (3)**

Studies of specialized topics in art and architectural history.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 350 History of Early Christian and Byzantine Art (3)**

Christian art from the late Roman Empire through the development of the Byzantine style and its influence in Western Europe; a study of the major surviving architectural monuments and

mosaics in centers such as Rome, Constantinople, Ravenna, Venice and Sicily, as well as manuscript painting and minor arts.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 355 History of Early Medieval and Romanesque Art (3)**

A study of architecture, sculpture, painting, and minor arts in Western Europe from the 8th through the 12th centuries, including Insular, Carolingian, Ottonian, and Romanesque art.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 360 History of Gothic Art (3)**

A study of Gothic architecture, sculpture, painting, and minor arts in Western Europe from the 12th through the 15th centuries. Concentration will be on the major architectural monuments and their decoration.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 362 History of Medieval Manuscript Illumination (3)**

A study of the development of manuscript illumination from the 5th century until the replacement of manuscripts by printed books in the 15th century, with an emphasis on the role and function of manuscripts, as well as their decoration.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 365 History of Northern Renaissance Painting (3)**

Study of the development of painting in Northern Europe during the 15th and 16th centuries. Artists to be discussed include Jan van Eyck, Roger van der Weyden, Hieronymous Bosch, Albrecht Dürer, and Peter Brueghel.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 370 History of Italian Early Renaissance Art (3)**

Study of the painting and sculpture produced in Italy during the 14th and 15th centuries. Concentration on major masters such as Giotto, Masaccio, Donatello, Fra Angelico, Piero della Francesca, Castagno, and Botticelli.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 375 History of Italian High and Late Renaissance Art (3)**

Study of the painting, sculpture, and architecture produced in 16th-century Italy. The course will focus upon High Renaissance masters Leonardo da Vinci, Michelangelo and Raphael and the major practitioners of 16th-century Mannerism.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 381 Spanish Baroque Painting and Sculpture (3)**

A detailed study of the major artistic currents and artists active in Spain during the late 16th through 17th centuries (the Golden Age) with emphasis on the historic, social, and religious context of the period. Among the artists to be discussed are El Greco, Ribalta, Ribera, Zurbarán, Martínez, Montañes, Velázquez, and Murillo.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 385 History of European Painting, 1700-1850 (3)**

Study of the major artistic movements in European painting from 1700 to 1850; the Rococo; the development of Neoclassicism and Romanticism.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 389 19th Century European Art (3)**

This course will consider the major artistic movements and stylistic developments of 19th-century European modernism from 1850 to 1900. Concentration will be on major movements including Realism, Impressionism and Post-Impressionism

and artists such as Courbet, Manet, Monet, Van Gogh, and Cézanne.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 390 20th Century European Art (3)**

This course will consider the major artistic movements and stylistic developments of 20th-century European modernism from 1900 to 1945. Concentration will be on major movements including Expressionism, Cubism, Dada and Surrealism and artists such as Matisse, Picasso, Kandinsky, and Duchamp.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 391 Contemporary Art (3)**

This course examines the art of the contemporary period (from 1945 to present), both American and international, including painting, sculpture, installation, video, performance and body art. In addition to discussion of major artists, movements, and issues, the theoretical and critical reception of contemporary art will also be explored.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 392 The Camera and Visual Perception (3)**

A study of photography as a visual art form; its interaction with the other arts, especially painting; the evolution of cinematography and the effects of these art forms on the history of modern art.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 394 History of 18th- and 19th-Century Architecture (3)**

Beginning with the new awareness of the past that arose in mid-18th century in Europe, this course will trace the development of Western architecture through the 1893 Columbian Exposition in Chicago. Traditional style and technological innovation will be given equal weight.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 395 History of 20th-Century Architecture (3)**

A study of modern architecture from 1885 to the present, concentrating on the American contributions of Sullivan and Wright, the European modernists, Gropius, Mies van der Rohe, Le Corbusier and post- World-War-II developments.

*Prerequisite:* Permission of the instructor or six (6) hours of art history or ARTH 299.

**ARTH 399 Tutorial: Art History (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings.

*Prerequisite:* Open only to students enrolled in the Honors College. Junior standing, plus permission of the tutor, tutorial committee, and the department chair.

**ARTH 410 Internship in Art History (1-6)**

Internships are intended to provide the opportunity for the student to apply knowledge and skills learned during a normal course of study to actual situations encountered in work with area arts or preservation organizations. Interested students should contact the faculty internship director for specific placement opportunities and application information. Only junior and senior students with GPAs of 3.0 or better in the major are eligible.

**ARTH 415 Advanced Seminar in Art and Architectural History (3)**

An advanced seminar in a specific area of art history, requiring a research paper and oral presentations by the student. Successful completion of this course is a requirement for completion of the major in art history. Topics will vary depending on the member of the art history faculty directing the seminar.

*Prerequisite:* ARTH 299, senior standing, or permission of the instructor.

**ARTH 490 Independent Study in Art History (3)**

A qualified student who has taken appropriate preparatory courses in one area or problem of art and/or architectural history determines a project to research and write about in consultation with and under the supervision of a departmental member qualified to guide the work. The student will be expected to produce a

thorough research paper and to make a public presentation at the end of the semester in which he or she is enrolled.

*Prerequisites:* Student must be a junior or senior art history major with an overall GPA of at least 3.00 and an art history GPA of at least 3.3.

## Arts Management Courses

### ARTM 200 Introduction to Arts Management (3)

This course covers the basic principles, concepts, processes, and practices relating to organizations in the arts industry including structure of the arts industry and specifically nonprofits, organization structures, planning, leadership, staffing, financial management, economic impact, fundraising, advocacy, and marketing development.

### ARTM 210 Introduction to the Music Industry (3)

This course is particularly valuable for students with career interests in the music business. It provides an overview of the music industry; development of the artist-manager relationship; development of an artist's career plan/image; negotiating contracts; booking; promotion; recording demos; music distribution; new technologies: sound/light enhancements.

### ARTM 240 Gallery Fundamentals (3)

This is a course to survey the purposes, procedures, and functions of art museums and galleries. It provides an introduction to such tasks as exhibition design and the installation, care, handling, identification, and research of art objects. Students will participate directly in mounting and maintaining exhibitions in the Halsey Gallery.

*Prerequisite:* ARTH 102 or ARTS 118 or permission of the instructor.

### ARTM 310 Advanced Arts Management (3)

Students in this course apply the principles, concepts, processes, and practices learned in the introductory course to the creation and management of various types of nonprofit arts organizations including such aspects as planning, evaluation, programming, special events, financial planning,

marketing, fundraising, and proposal writing.

*Prerequisite:* ARTM 200 or permission of the instructor.

### ARTM 325 Understanding Creativity (3)

This course will explore the anatomy of the creative process by observation and participation in the visual, performing, media, and literary arts. The importance of intuition, thinking skills, risk taking, problem solving, and collaboration will be stressed.

### ARTM 340 Arts Financial Management (3)

A study of the financial aspects of nonprofit arts organizations to include budgeting, earned and unearned income, fund management, accounting systems, financial statements, bookkeeping systems, cash management, reporting requirements, cost-benefit analysis, and financial decision-making.

*Prerequisites:* ARTM 200, ARTM 310 and ACCT 203 or permission of the instructor.

### ARTM 350 Marketing, Fund Raising and Grantwriting For Nonprofit Arts Organizations (3)

This course will examine marketing techniques and materials used in print and electronic publicity and promotions, and will explore the elements, processes and management of philanthropy and development in terms of generating earned revenue, and raising funds from public and private contributed income sources and grantwriting.

*Prerequisite:* ARTM 310.

### ARTM 352 Fundraising Event Creation, Planning and Execution For Nonprofit Arts Organizations (3)

This course will provide students with a hands-on learning arts fundraising event development and management experience. Working as a group and in sub-committees, students will implement a special fundraising event either in conjunction with the School of the Arts or with an outside arts non-profit. The project will encompass the full range of tasks related to an event, including initial research and planning, logistics, marketing, location, staffing, budgeting, and post-event evaluation/follow up.

*Prerequisites:* ARTM 200, ARTM 310, ARTM 350

### ARTM 360 Special Topics in Arts Management (3)

Special topics courses such as Theatre and Performance Management, Arts Education, and Grants Writing and Fundraising are offered periodically to supplement program electives. Please check each semester's list of arts management special topics courses.

### ARTM 362 Events Management (3)

Focuses on the cultural origins and significance of celebration within society; an introduction to management of special events and festivals from initial planning through delivery; questions of event feasibility; costing and financial management; assessing and meeting communication objectives; merchandising and marketing; staffing and task analysis; safety and security; debriefing and evaluation.

*Prerequisites:* Junior standing; ACCT 203; HTMT 210 or ARTM 200; or permission of the instructor.

### ARTM 370 Building Participation in the Arts (3)

This class will explore the steps nonprofit arts organizations take to understand their audience and to program and promote their offerings to the public. The class will work with managers of two specific non-profit arts organizations helping them market one of their events during the semester. Students will create and implement a marketing plan, evaluate the success of their plans, prepare a presentation for the organization they assisted and meet with the organization managers to present their analysis and receive feedback from the organization.

*Prerequisites:* ARTM 200, ARTM 310, ARTM 350 or MKTG 302.

### ARTM 380 Independent Study in Arts Management (3)

A study, reading, or research project concerning subject matter not available in other college courses.

*Prerequisites:* Junior standing, ARTM 200, 310, and written agreement with the student and the instructor.

### ARTM 400 Internship in Arts Management (3)

Provides students an experiential learning and research opportunity with a sponsoring arts-oriented organization.

*Prerequisites:* Junior standing, ARTM 310 and permission of faculty.

**ARTM 420 Policy in the Arts (3)**

An exploration of the role of federal, state, and local government and the private sector in arts and public policy development. Policy issues include arts education, arts advocacy, freedom of artistic expression, tax policy, cultural equity, and the applications of policy decisions on organizational missions, strategic planning, ethics, boards of directors and organizational management.

*Prerequisites:* Junior standing, ARTM 310, 340, 370, or MKTG 302.

## Asian Studies Courses

**ASST 101 Introduction to Asian Studies (3)**

The course is an interdisciplinary introduction to Asia through an examination of history, geography, religion, literature, visual art, politics, and economics. The topics will range from early traditions and foundations to the 20th century, with a brief introduction to the Asian-American experience. Members of the faculty with expertise in various aspects of Asia will participate in the course.

**ASST 105 Value and Tradition in Asian Civilizations (3)**

The course will explore the motivating values found in the religious traditions of Hinduism, Buddhism, Confucianism, and shamanism. Designed around major conceptual themes, such as diversity of religious experience; asceticism and monastic life; death, the afterlife, and ancestor worship; ritual and image veneration; gender and sexuality; and the effects of modernization on religions today, the course will follow an easterly route from India to China to Japan.

**ASST 240 Special Topics in Asian Studies (3)**

Studies of specialized topics in Asian Studies. These will be usually cross-listed with courses offered in one of the disciplines taught by Asian Studies faculty. The specific topic will be listed when the course is offered.

**ASST 340 Special Topics in Asian Studies (3)**

Studies of specialized topics in Asian Studies. These will be usually cross-listed with courses offered in one of the disciplines taught by Asian Studies

faculty. The specific topic will be listed when the course is offered.

**ASST 390 Independent Study/ Asian Studies (3)**

Students may, with the permission and under the direction of the Director of Asian Studies and appropriate faculty, develop and conduct independent projects in Asian Studies, either on campus or as a part of a study abroad program.

## Astronomy Courses

**ASTR 129 Astronomy I (3)**

An introduction to astronomy. Subjects covered are a brief history of astronomy, coordinates, time, the earth's structure and motion, instruments used in astronomy, the moon, eclipses, comets, meteors, interplanetary medium, stars (binary, variable), star clusters, interstellar matter, galaxies and cosmology. Lectures three hours per week. Students who have passed HONS 390(I), Honors Astronomy, first semester will not receive credit for ASTR 129.

*Prerequisite:* A working knowledge of high school algebra is assumed.

*Co-requisite:* ASTR 129L

**ASTR 129L Astronomy I Laboratory (1)**

A laboratory program to accompany ASTR 129. Laboratory three hours per week.

*Co-requisite:* ASTR 129.

**ASTR 130 Astronomy II (3)**

A continuation of ASTR 129. Lectures three hours per week. Students who have passed HONS 390(II), Honors Astronomy, second semester will not receive credit for ASTR 130.

*Prerequisites:* ASTR 129 and 129L. A working knowledge of high school algebra is assumed.

*Co-requisite:* ASTR 130L

**ASTR 130L Astronomy II Laboratory (1)**

A laboratory program to accompany ASTR 130. Laboratory three hours per week.

*Prerequisite:* ASTR 129 and 129L. A working knowledge of high school algebra is assumed.

*Co-requisite:* ASTR 130.

**ASTR 205 Intelligent Life in the Universe (3)**

A general survey of the topic, stressing the interrelations between the fields of astronomy, physics, chemistry, biology, geology and philosophy. Topics include the physical setting for origin and evolution of life, existence of such conditions elsewhere, possible number of extraterrestrial civilizations, possibility of contact and implications of an encounter. Lectures three hours per week.

**ASTR 206 Planetary Astronomy (3)**

The nature of the origin, evolution, and current state of the solar system and extrasolar systems are reviewed. Celestial mechanics, planetary interiors, atmospheres and solar system debris are covered in depth. Lectures three hours per week.

*Prerequisite:* PHYS 111 (PHYS 101 and MATH 120 may substitute for PHYS 111 with permission of the instructor).

**ASTR 210 Black Holes in the Universe (3)**

Properties of black holes and observations of objects that might harbor them. Topics include Einstein's special and general relativity, stellar evolution, black hole detection, accretion and outflows, gravitational waves, the Hawkings effect, singularities and the possibility of creating mini black holes in the laboratory. (For non-science majors.)

*Prerequisite:* MATH 101

**ASTR 260 NASA Space Mission Design (2)**

Students work on teams with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisites:* ASTR129/ASTR 130 or ASTR 206 or HONS 390 or GEOL 206 or HONS 395 or PHYS 101/PHYS 102 or PHYS 111/PHYS 112 or HONS 157/HONS 158 or permission of instructor.

*Co-requisites:* ASTR 260L/GEOL 260L/PHYS 260L or ASTR 460L/GEOL 460L/ PHYS 460L

**ASTR 260L NASA Space Mission Design Lab (1)**

Lab students work on teams with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisites:* ASTR129/ASTR 130 or ASTR 206 or HONS 390 or PHYS 101/PHYS 102 or PHYS 111/PHYS 112 or HONS 157/HONS 158 or GEOL 206 or HONS 395 permission of instructor.

*Co-requisites:* ASTR 260/GEOL 260/PHYS 260 or ASTR 460L/GEOL 460L/ PHYS 460L

**ASTR 311 Stellar Astronomy and Astrophysics (3)**

The basic concepts of the physics of stars and stellar systems are explored. Topics covered include stellar interiors, stellar atmospheres, stellar spectra, star formation, stellar evolution, stellar remnants, variable stars and binary stars. Lectures three hours per week.

*Prerequisites:* ASTR 206 and PHYS 112 (PHYS 102 and MATH 220 may replace PHYS 112 with permission of the instructor).

**ASTR 312 Galactic and Extragalactic Astronomy (3)**

Structure, kinematics, and dynamics of galaxies including the Milky Way. Galactic evolution, active galaxies and quasars, accretion disks and cosmology.

*Prerequisites:* ASTR 311 and MATH 221 or permission of the instructor.

**ASTR 377 Experimental Astronomy (4)**

A course designed to emphasize the concepts, principles, and experimental techniques of modern observational astronomy and astrophysics. Topics include astrometry, multi-wavelength instrumentation and imaging, and data analysis techniques. Hands-on projects plus lecture. Observatory work will be required. Scientific report writing will also be required.

*Prerequisite:* PHYS 230 or permission of the instructor.

**ASTR 410 Black Holes; Advanced Topics (1)**

An augmentation of ASTR 210 requiring calculus and computation. Research topics include using relativity (to explain quasar gravitational lensing, effects of general relativity on GPS satellites, and frame dragging with Gravity Probe B), calculating accretion disk emission spectra, and constraining environments and properties of black holes inhabiting active glacial nuclei.

*Prerequisites:* PHYS 112 or permission of instructor.

*Co-requisite:* ASTR 210

**ASTR 413 Astrophysics (3)**

Covers the application of physics to problems in stellar atmospheres and interiors, the interstellar medium, and galactic dynamics. Lectures three hours per week.

*Prerequisites:* PHYS 301 and MATH 323 or permission of the instructor.

**ASTR 460L NASA Space Mission Design Leadership Lab (1)**

Lab students lead local teams and work with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisite:* Permission of instructor.

*Co-requisites:* ASTR 260/GEOL 260/PHYS 260

## Athletic Training Courses

**ATEP 245 Athletic Injury Prevention and Management (3)**

An introduction to the field of sports medicine and the athletic training profession. The course will present information on recognition, prevention, treatment/ management and applied anatomy of common and less common musculoskeletal injuries.

*Co-requisite:* ATEP 245L.

**ATEP 245L Athletic Injury Prevention and Management Lab (1)**

Laboratory course designed to introduce students to the psychomotor skills and scientific principles of athletic taping, bracing and wrapping.

*Co-requisite:* ATEP 245.

**ATEP 345 Athletic Injury Evaluation I (3)**

This course focuses on the assessment of athletic injuries occurring to the extremities of the human body. Mechanisms and characteristics of athletic injuries commonly occurring to the joints of the human extremities will be discussed. Emphasis will be placed on the components of the comprehensive orthopedic physical examination.

*Prerequisites:* ATEP 245 and lab.

*Co-requisite:* ATEP 345L.

**ATEP 345L Athletic Injury Evaluation I Lab (1)**

Laboratory course designed to develop the candidate's psychomotor skills of orthopedic examination and assessment.

*Prerequisite:* ATEP 245 and lab.

*Co-requisite:* ATEP 345.

**ATEP 346 Athletic Injury Evaluation II (3)**

This course focuses on the assessment of athletic injuries occurring to the human spine and torso areas. Mechanisms and characteristics of athletic injuries commonly occurring to these areas will be discussed. Emphasis will be on the components of the physical examination including history, inspection, palpation, functional testing and special evaluation techniques.

*Prerequisite:* ATEP 245/L or permission of the instructor.

*Co-requisite:* ATEP 346L.

**ATEP 346L Athletic Injury Evaluation II Lab (1)**

This laboratory course is a co-requisite to ATEP 346 Athletic Injury Evaluation II and is designed to develop the student's psychomotor skills of examination and assessment of athletic injuries occurring to the spine and torso areas of the human body.

*Prerequisite:* ATEP 245/L or permission of the instructor.

*Co-requisite:* ATEP 346.

**ATEP 365 General Medical Conditions in Athletics (3)**

This course focuses on general medical conditions by body systems; their mechanism of acquisition, signs, symptoms, referral criteria and return-to-participation guidelines. Candidates explore treatment options and the body's physiological and psychological response to pharmacological agents. Methods of identifying risk factors and preventing general medical conditions will also be discussed.

*Prerequisites:* ATEP 345 and lab, BIOL 201, and acceptance into the Athletic Training Education Program, or permission of the instructor.

**ATEP 375 Clinical Education Experience in Athletic Training (1 Hr./Level for 001, 2 Hr./Level for 002-005, Repeatable to 5 Required Levels)**

This course is designed to provide candidates the opportunity to develop specific didactic competencies and clinical proficiencies in the area of athletic training. Emphasis will be placed on level-specific knowledge and clinical proficiency acquisition, development and demonstration. This course must be repeated four times in a progressive sequential order for a total of nine credits. Successful completion of the previous course (level) is required for enrollment in the subsequent course (level).

*Prerequisites:* ATEP 245, acceptance into the Athletic Training Education Program, and successful completion of prior ATEP 375 level.

**ATEP 430 Therapeutic Exercise (3)**

This course provides information on planning and implementing a comprehensive rehabilitation/reconditioning program for injuries/illnesses sustained during physical activity. Emphasis will be placed on the didactic and psychomotor development of the following comprehensive rehabilitation program components: determination of therapeutic goals and objectives, selection of therapeutic treatment and exercise, methods of evaluating and recording rehabilitation progress and the development of criteria and progression for return to physical activity.

*Prerequisites:* BIOL 201/202, ATEP 245, ATEP 345, and EXSC 330 (AT students) BIOL 201/202, EXSC 330 (non-AT

students). Non-AT students are requested to confer with the instructor prior to enrolling in this course.

*Note: This class carries a component lab worth zero hours.*

**ATEP 437 Therapeutic Modalities (3)**

This course provides comprehensive coverage of the adjunctive use of therapeutic modalities in the athletic injury recovery process. This course examines the physiological basis and rationale for modality use, clinical application and specific application techniques. Students will gain didactic knowledge regarding modality selection, indications, and contraindications as well as hands-on experience in the appropriate use and application of techniques.

*Prerequisites:* ATEP 245, ATEP 345, or permission of the instructor.  
Recommended: PHYS 101/102.

*Note: This class carries a component lab worth zero hours.*

## Biology Courses

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**BIOL 101 Concepts and Applications in Biology I (4)**

This is a non-science majors' course, which will provide a background for understanding and evaluating contemporary topics in biology and societal/environmental issues. The course emphasizes cellular and molecular concepts, including biochemistry, cell structure and function, respiration, photosynthesis, genetics and molecular biology. An understanding of methods, history, and dynamic nature of science will also be emphasized.

Lecture/Discussion - 3 hours per week.

*Co-requisite:* BIOL 101L.

**BIOL 101L Concepts and Applications in Biology I (0)**

A laboratory course which accompanies BIOL 101. Laboratory – 3 hours per week.

*Co-requisite:* BIOL 101.

**BIOL 102 Concepts and Applications in Biology II (4)**

This is a non-science majors' course, which will provide a background for understanding and evaluating contemporary topics in biology and

societal/environmental issues. The course emphasizes physiology and anatomy of organisms, ecological and evolutionary concepts, biodiversity, and conservation biology. An understanding of methods, history, and dynamic nature of science will also be emphasized.

Lecture/Discussion - 3 hours per week.

*Co-requisite:* BIOL 102L.

**BIOL 102L Concepts and Applications in Biology II (0)**

A laboratory course which accompanies BIOL 102. Laboratory – 3 hours per week.

*Co-requisite:* BIOL 102.

**BIOL 111 Introduction to Cell and Molecular Biology (3)**

A foundation course for science majors emphasizing the concepts of structure and function in biological systems at the molecular and cellular levels. Topics include biochemistry, biochemical and molecular evolution, cell function, respiration, photosynthesis, genetics and molecular biology. Lectures three hours per week.

*Co-requisite:* BIOL 111L.

*Notes: BIOL 111, 111L, 112, 112L are prerequisites for all upper-division biology courses except for BIOL 204 and BIOL 209, which have no prerequisites. Students who have completed BIOL 101, 102, 101L, 102L, and who wish to take upper-division biology courses, may do so only with permission of the department. Students may not receive credit for both BIOL 101 and 111, or for both BIOL 102 and 112, or for both BIOL 111 and 112 and Honors Biology. BIOL 211 and 211D are prerequisites, and BIOL 305 is a co- or prerequisite for all 300-, 400-, and 500-level courses.*

**BIOL 111L Introduction to Cell and Molecular Biology Lab (1)**

Laboratory course to accompany BIOL 111.

*Co-requisite:* BIOL 111.

*Notes: BIOL 111, 111L, 112, 112L are prerequisites for all upper-division biology courses except for BIOL 204 and BIOL 209, which have no prerequisites. Students who have completed BIOL 101, 102, 101L, 102L, and who wish to take upper-division biology courses, may do so only with permission of the department. Students may not receive credit for both BIOL 101 and 111, or for both BIOL 102 and 112, or for both BIOL 111 and 112 and Honors Biology. BIOL 211 and 211D are prerequisites, and BIOL 305 is a co- or*

*prerequisite for all 300-, 400-, and 500-level courses.*

### **BIOL 112 Evolution, Form, and Function of Organisms (3)**

A foundation course for science majors providing an introduction to evolution and a study of the major groups of organisms with an emphasis on their structure, form, and function. Lectures three hours per week.

*Prerequisite:* BIOL 111.

*Co-requisite:* BIOL 112L.

*Notes:* BIOL 111, 111L, 112, 112L are prerequisites for all upper-division biology courses except for BIOL 204 and BIOL 209, which have no prerequisites. Students who have completed BIOL 101, 102, 101L, 102L, and who wish to take upper-division biology courses, may do so only with permission of the department. Students may not receive credit for both BIOL 101 and 111, or for both BIOL 102 and 112, or for both BIOL 111 and 112 and Honors Biology. BIOL 211 and 211D are prerequisites, and BIOL 305 is a co- or prerequisite for all 300-, 400-, and 500-level courses.

### **BIOL 112L Evolution, Form, and Function of Organisms Lab (1)**

Laboratory course to accompany BIOL 112.

*Co-requisite:* BIOL 112.

*Notes:* BIOL 111, 111L, 112, 112L are prerequisites for all upper-division biology courses except for BIOL 204 and BIOL 209, which have no prerequisites. Students who have completed BIOL 101, 102, 101L, 102L, and who wish to take upper-division biology courses, may do so only with permission of the department. Students may not receive credit for both BIOL 101 and 111, or for both BIOL 102 and 112, or for both BIOL 111 and 112 and Honors Biology. BIOL 211 and 211D are prerequisites, and BIOL 305 is a co- or prerequisite for all 300-, 400-, and 500-level courses.

### **BIOL 201 Human Physiology (4)**

An introduction to the structure and function of the major organ systems of the human body. Lectures three hours per week; laboratory three hours per week. This course is specifically intended for preallied health, physical education, and pre-nursing majors

*Prerequisites:* BIOL 111/111L, BIOL 112/112L.

### **BIOL 202 Human Anatomy (4)**

An introduction to the gross morphology and microscopic anatomy of the major organ systems of the human body. Lectures three hours per week; laboratory three hours per week. This course is specifically intended for pre-allied health, physical education, and pre-nursing majors.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L.

### **BIOL 204 Man and the Environment (3)**

A study of the interdependence of man and his environment. Emphasis will be on man's place in nature, pollution, man-modified habitats, and environmental protection. Lectures three hours per week.

### **BIOL 209 Marine Biology (4)**

An introduction to the study of marine organisms and their environment. Lectures three hours per week; laboratory three hours per week. Usually taught only in the summer.

### **BIOL 211 Biodiversity, Ecology, and Conservation Biology (4)**

A foundation course for intermediate-level biology majors. Students will explore synthetic biological concepts, including evolution, population-community- ecosystem ecology, behavior, biodiversity, and conservation. In a weekly, one-hour recitation section, students will be required to read, discuss and critique scientific literature (both popular and primary) related to these topics.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L.

*Co-requisite:* BIOL 211D.

### **BIOL 211D Biodiversity, Ecology, and Conservation Biology Discussion (0)**

Discussion section to accompany BIOL 211.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L.

*Co-requisite:* BIOL 211.

### **BIOL 250 Special Topics in Biology (1-4)**

Lectures and discussion on selected topics of biological interest.

*Prerequisite:* One year of biology or permission of the instructor.

### **BIOL 300 Botany (4)**

Gross morphology, life history, taxonomy, and evolution of representative algae, fungi, bryophytes, and vascular plants. Lecture three hours per week; laboratory three hours per week.

*Prerequisite:* BIOL 111/111L and BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

### **BIOL 301 Plant Taxonomy (4)**

The collection, identification, and classification of vascular plants, with special emphasis on local flora. Students will have practice in the use of keys and herbarium techniques. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L and BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

### **BIOL 302 Plant Anatomy (4)**

A comparative study of the anatomy of representative vascular plants, relating the anatomical features to functions and evolution. The laboratory will include an introduction to the techniques of plant histology and wood anatomy. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L and BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

### **BIOL 303 Phycology (4)**

A survey of the algae from the ultraplankton to the kelps. The laboratory experience will involve extensive field collecting and identification, preparation of herbarium materials, and culturing for life-history studies. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L and BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

**BIOL 304 Plant Physiology (4)**

A study of plant function. Topics will include metabolism, growth and development, transpiration, translocation, and an introduction to plant molecular biology. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D; one year of chemistry.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

**BIOL 305 Genetics (3)**

The basics of the science of heredity. The course encompasses Mendelian genetics, the molecular basis of inheritance, changes in chromosome number and structure, gene mapping, mutations and population genetics. Population and quantitative genetic approaches are applied to clarify the understanding of evolution.

*Prerequisites:* BIOL 111/111L and BIOL 112/112L.

*Co-requisites or prerequisites:* BIOL 211 and 211D, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 305L Genetics Lab (1)**

An introduction to the principles of heredity using common experimental organisms. Recent techniques in molecular genetics are also covered. Laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L.

*Co-requisites or prerequisites:* BIOL 211 and 211D, BIOL 305, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 310 General Microbiology (4)**

An introduction to the microbial world with special emphasis on bacteria. Topics include cellular structures, bacterial metabolism, microbial genetics, bacterial growth and its control, virology and the epidemiology and pathogenicity of disease-producing microorganisms. The laboratory emphasizes proper handling techniques, identification methods, and properties of microorganisms. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D; one year of chemistry.

*Co-requisite or prerequisites:* BIOL 305. CHEM 232 can be substituted for BIOL 211 and 305, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 312 Molecular Biology (3)**

An in-depth study of gene structure and gene regulation, important cellular macromolecules, and the techniques used in their analysis. Special topics include discussions of molecular immunology, mobile genetic elements, virology, and the biology of cancer. Lecture three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D and BIOL 305; one year of chemistry. CHEM 232 can be substituted for BIOL 211 and 305.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 312L Molecular Biology Laboratory (1)**

A comprehensive study of the techniques used in the isolation and analysis of important cellular macromolecules. Techniques covered will include electrophoresis of proteins and nucleic acids, southern and western blotting, liquid chromatography and those involved in the formation and analysis of recombinant molecules. Laboratory three hours per week.

*Co-requisite or prerequisite:* BIOL 312, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 313 Cell Biology (3)**

A study of the structural and functional correlates in cell biology. Topics include membrane specialization, cytoskeleton structure and function of cellular organelles, adhesion, motility, mitotic mechanisms, transport mechanisms, immunology, and energetics. Lectures three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D; one year of chemistry.

*Co-requisites or prerequisites:* BIOL 305. CHEM 232 can be substituted for BIOL 211 and 305, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 313L Cell Biology Laboratory (1)**

These laboratory exercises introduce the student to some of the modern methods used to study cell function. Laboratory three hours per week.

*Co-requisite or prerequisites:* BIOL 313, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 314 Immunology (3)**

A comprehensive study of the cellular and molecular aspects of the immune response. Subjects covered will include antibody structure and function, immunogenetics, the biology of cell-mediated responses to autoimmunity, immunodeficiencies and the evolution of the immune system.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. One year of chemistry.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

**BIOL 320 Histology (4)**

A detailed study of the microscopic structure of mammalian tissues and organs. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

**BIOL 321 General and Comparative Physiology (4)**

A study of the principles of the functional mechanisms that underlie the life processes of all organisms with emphasis on the ways in which diverse organisms perform similar functions. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305; one year of chemistry. CHEM 232 can be substituted for BIOL 211 and 305.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 322 Developmental Biology (4)**

Lecture surveys the different stages of development from fertilization to organogenesis in both invertebrate and vertebrate model systems. Lecture covers

both the descriptive nature of embryonic development, as well as the conserved molecular and cellular patterns. The laboratory covers some techniques of developmental biology, as well as histology slides of embryonic development, and research paper discussion. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics or permission of instructor.

#### **BIOL 323 Comparative Anatomy of Vertebrates (4)**

Lectures on the functional morphology and phylogeny of vertebrate organ systems, and laboratory dissection of shark and cat. Lectures three hours per week; laboratory four hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 332 Vertebrate Zoology (4)**

Life histories, adaptations, ecology and classifications of vertebrate animals. Laboratory work emphasizes living material from the local fauna. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 333 Ornithology (4)**

An introduction to the biology of birds. Laboratory work will emphasize the identification, classification, behavior and ecology of local species. Lectures two hours per week; laboratory four hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 334 Herpetology (4)**

An introduction to the biology of amphibians and reptiles. Laboratory work will emphasize the identification, classification, behavior and ecology of local species. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 335 Biology of Fishes (4)**

A brief survey of gross morphology with emphasis on the structures used in identification, and more detailed considerations of some of the aspects of physiology, ecology, life histories and behavior. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 336 Parasitology (4)**

Morphology, physiology, epidemiology, ecology and life cycles of parasites of vertebrates and invertebrates. Laboratory will center on living and preserved material and will include methods of fecal, blood, histological and serodiagnostic examinations. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 337 Biology of Invertebrates (4)**

Classification, morphology, physiology, behavior and life histories of invertebrates. Laboratory work will emphasize the study of living material from the local fauna. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 338 Entomology (4)**

A study of the diversity of insects and their lifestyles. Lectures include taxonomic topics covering the orders and the major families of insects, their structure and function, physiology, ecology and the interaction of insects with humans. Laboratory will concentrate on collecting insects in the field, field projects and identifying insects. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 339 Dinosaur Biology (3)**

This course examines the paleobiology, paleoecology, evolution and extinction of dinosaurs and their Mesozoic contemporaries through a variety of approaches. Emphasis will be placed on the fossil evidence and the methods used in reconstructing the lives of these animals, once the most successful of all land vertebrates.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 340 Zoogeography (3)**

An introduction to the study of the distribution patterns of organisms, their origins and their significance for ecology and evolution. Lectures three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 341 General Ecology (4)**

Consideration of organisms and their environmental relationships. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

**BIOL 342 Oceanography (4)**

An introduction to the study of the marine environment. Lecture and laboratory work will emphasize the interrelationships of physical, chemical, geological and biological processes in the sea. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisites or prerequisites:* BIOL 305; one year each of college mathematics and chemistry, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 343 Animal Behavior (4)**

An introduction to the mechanisms and evolution of behavior in vertebrate and invertebrate animals. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 350 Evolution (3)**

A study of the mechanism and patterns of plant and animal evolution, with emphasis on the species level of organization. Lectures three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

**BIOL 351 Principles of Neurobiology (3)**

The first course of a two-semester series that serves as a rigorous introduction to the field of neuroscience. The first semester will focus on brain anatomy, cellular and molecular function of neurons and development of nervous systems. The course is team taught by faculty from the Departments of Biology and Psychology.

*Prerequisites:* PSYC 103, BIOL 111, 112, and 211 or PSYC 214.

*Pre-or co-requisite:* MATH 250 or equivalent course in statistics.

**BIOL 352 Neurobiology and Behavior (3)**

The second course of a two-semester series that serves as a rigorous introduction to the field of neuroscience. This course focuses on sensory and motor systems, neural regulatory systems, functional neuroanatomy and behavioral/cognitive neuroscience.

*Prerequisite:* BIOL 351/PSYC 351 or PSYC 214.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

**BIOL 353 Hormones and Behavior (3)**

Hormones modulate most social behaviors (reproductive, parental, aggressive) expressed by animals. This course examines how hormones interact with the nervous system to produce these complex behaviors. Taking a comparative approach, the course draws examples of neuroendocrine function from throughout the animal kingdom including fish, birds, reptiles, amphibians and mammals. Cross-listed with PSYC 353.

*Prerequisites:* BIOL 111, 112, BIOL 211

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 357 Oceanographic Research (4)**

This course engages students in multidisciplinary research. Students participate in a multi-day research cruise, learn about southeast continental shelf oceanography and conduct independent and collaborative research in the laboratory. Students present their research results in poster and oral form, and prepare manuscripts for publication in an online journal.

*Prerequisites:* BIOL 342 and lab and permission of the instructor.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

**BIOL 360 Introduction to Biometry (3)**

An introduction to basic statistical methods and their application in the analysis of biological data.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D; MATH 111 or equivalent or permission of the instructor.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

**BIOL 396 Biophysical Modeling of Excitable Cells**

An introduction to the concepts and methods of computer modeling of excitable cells. Topics include basic electrophysiology of excitable cells, biophysics of ion conduction, mathematical modeling of activation/inactivation mechanisms using experimental data, and computer simulations.

*Prerequisites:* BIOL 111/112 and PHYS 112/HONS 158 or BIOL 211/305 and PHYS 102/PHYS 112/HONS 158 or the permission of the instructor.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

**BIOL 397 Research Experience in Biology (0, Repeatable)**

A student works under faculty supervision to learn a research method, to explore possible research topics or to continue an ongoing study. The faculty member helps the student to determine the course goals and objectives, and supervises the project. The student will provide a written report to the faculty at the end of the semester. Students will receive a grade of "S" (satisfactory) or "U" (unsatisfactory) for the course.

*Prerequisite:* Only biology majors may take a Zero Credit Research course. Permission of the instructor and approval of the department chair.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics or permission of instructor.

**BIOL 399 Tutorial (1-3, Repeatable up to 3)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. GPA of at least 3.0 in biology courses; junior standing plus permission of the tutor and the department chair.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

**BIOL 406 Conservation Biology (3)**

A course exploring the origin, maintenance and preservation of biodiversity at all levels: genetic, population, community, ecosystem and biosphere. The focus will be on applying ecological, genetic and evolutionary principles to problems in conservation.

Optional field trips will make use of the rich biota of the Charleston area.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305; BIOL 341 or permission of the instructor.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 410 Applied and Environmental Microbiology (4)**

A lecture and laboratory study of the special applications of microbiology to domestic water and wastewater and solid wastes, food and dairy products, agriculture and industrial processes. Includes microbial distribution and its role in various marine and freshwater, terrestrial, animal, atmospheric and product environments. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D; BIOL 310 and one year of chemistry.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 411 Microtechnique and Cytochemistry (4)**

A study of the history, theory and applications of microscopy and microscopy techniques applicable for the study of cells, tissues and macro- and microorganisms. Lectures two hours per week; laboratory four hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and one year of chemistry.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 414 Environmental Immunology (3)**

This course, directed at graduate and advanced undergraduate students, addresses the role of the immune system in maintaining the health of the human and wildlife populations. Lectures and independent reading, followed by classroom discussion, build skills in critical analysis of current literature in immunotoxicology, clinical and comparative immunology.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, one year of chemistry.

*Co-requisites or prerequisites:* BIOL 305, BIOL 312 or BIOL 313 or CHEM 351, MATH 250 or equivalent course in statistics and permission of the instructor.

#### **BIOL 420 General and Comparative Endocrinology (4)**

A study of the comparative anatomy and physiology of the ductless glands of invertebrate and vertebrate animals. Laboratory experiments are designed to demonstrate classical as well as modern approaches to the study of hormone action. Lectures two hours per week; laboratories six hours per week.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisites:* BIOL 30, MATH 250 or equivalent course in statistics and a course in physiology or permission of the instructor.

#### **BIOL 421 Topics in Physiology, Cell, and Molecular Biology of Marine Organisms (3)**

A course for students with interests in cellular, molecular and physiological approaches to research in marine biology. Specific lecture topics center on environmental bioindicators, developmental biology, organismal and environmental physiology, immunology and population genetics of marine organisms.

*Prerequisites:* BIOL 312 or 313; BIOL 321 and permission of the instructor.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

*Note: This course is intended only for summer.*

#### **BIOL 444 Plant Ecology (4)**

Plant Ecology will explore the population ecology of plants covering the genetic, spatial, age and size structure of plant populations. The focus will be on understanding the origin of these different kinds of structures, understanding how they influence each other and understanding why they change with time.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 341 or permission of the instructor.

*Co-requisite or prerequisites:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 445 Systematic Biology (3)**

An in-depth coverage of the principles of systematics with emphasis on reconstruction of relationships and evolutionary history of organisms. Topics include current theories of systematic and evolutionary biology, methods of phylogenetic systematics and critical evaluation of phylogenetic hypotheses.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. Junior standing and at least one upper division course in organismal biology (e.g., BIOL 300, 301, 303, 332, 333, 334, 335, 336, 337 or 338).

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 446 Special Topics in Neuroscience (3)**

A special topics course designed to supplement course offerings in neuroscience.

*Prerequisites:* Junior or senior standing and permission of the instructor.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 447 Seminar in Neuroscience (3)**

A seminar course exposing students to cutting-edge neuroscience research. Research seminars by neuroscientists will be combined with the reading and discussion of primary literature. Students will learn to effectively write about and present their own ongoing research projects. This course serves as a capstone experience for students pursuing a minor in neuroscience.

*Prerequisites:* BIOL/PSYC 351/352

*Co-requisite:* BIOL/PSYC 448,

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics or permission of the instructor.

*Note: Students engaged in independent research or a bachelor's essay will be given priority for enrollment.*

#### **BIOL 448 Bachelor's Essay in Neuroscience (6)**

A year-long senior research project conducted under the supervision of a faculty member in the neuroscience program at CofC or MUSC. Along with the faculty mentor, the student must submit a written project proposal for approval prior to course registration. This course is designed for students who are working toward a neuroscience minor.

*Prerequisites:* BIOL/PSYC 351 and 352 and permission of both the student's major department and the neuroscience program director.

*Corequisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 449 Biology of Coral Reefs (3)**

An introduction to the biology and ecology of reefbuilding corals and coral reefs. Topics to be covered include coral ecology (physical environment, nutrition, reproduction, growth, population structure), taxonomy, systematic, diversity, biogeography, reefbuilding processes, and natural and human induced disturbances.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, BIOL 305 and BIOL 341. Open to undergraduate student of junior or senior standing who have completed at least 15 semester hours in biology and have a GPA of at least 3.0 in all biology courses. Students not meeting these requirements may enroll with permission of the instructor and departmental chair.

*Corequisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 450 Problems in Biology (1-4)**

Literature and laboratory investigations of specific problems in biology, the nature of the problem to be determined by the interest of each student after consultation with departmental faculty. Open to exceptional students with junior or senior standing who are interested in continuing toward a graduate degree in biological or related sciences and who have a minimum GPA of 3.0 in all science courses. Credit value is determined by the type of problem addressed.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. Enrollment by permission of the instructor and approval of the department chair.

*Corequisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 451 Problems in Marine Biology (1-4)**

Literature and laboratory investigations of specific problems directly concerned with the biology of marine organisms. Open to exceptional students with junior

or senior standing who are interested in continuing toward a graduate degree in biological or related sciences and who have a minimum GPA of 3.0 in all science courses. Credit value is determined by the type of problem addressed.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. Enrollment by permission of the instructor and approval of the department chair.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 452 Seminar (1)**

Students will attend biological research seminars in which they will be exposed to a variety of subdisciplines within the life sciences as well as methods that can be employed to examine biological questions. Each student must attend a minimum of 10 seminars and prepare a literate analysis of each. Open to students who have junior or senior standing who have completed at least 15 credit hours in biology and have a minimum overall GPA of 2.5 in their biology courses.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, and BIOL 211/211D.

*Co-requisite or prerequisite:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 453 Special Topics (1-4)**

Special studies designed to supplement an offering made in the department or to investigate an additional, specific area of biological research.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D and permission of the instructor.

*Co-requisite or prerequisite:* BIOL 305, MATH 250 or equivalent course in statistics.

#### **BIOL 455 Seminar in Molecular Biology (2)**

Required "capstone" course for majors emphasizing molecular biology.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, BIOL 305, BIOL 312 and 313.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. Students must take the initiative in seeking tutors to help in both the design and the supervision of their projects. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. GPA of at least 3.0 in all biology courses. Enrollment by permission of the instructor and approval of the department chair.

*Co-requisite or prerequisite:* MATH 250 or equivalent course in statistics.

#### **BIOL 501 Biology of the Crustacea (4)**

A study of the biology of crustacean arthropods. Topics include evolution, taxonomy, functional morphology, physiology, embryology, ecology, behavior, commercial management and aquaculture. Instruction is held at Grice Marine Laboratory, typically during a summer session. Open to students with junior or senior standing who have completed at least 15 semester hours in biology and have a GPA of at least 3.0 in all biology courses. Students not meeting these requirements may enroll with permission of the instructor and department chair.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, BIOL 305 and a course in invertebrate zoology (BIOL 337).

#### **BIOL 502 Special Topics in Marine Biology (1-4)**

Special topics designed to supplement an offering made in the program or to investigate an additional, specific area of marine biological processes in the sea. Open to students with junior or senior standing who have completed at least 15 semester hours in biology and have a GPA of at least 3.0 in all biology courses. Students not meeting these requirements may enroll with permission of the instructor and department chair.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305.

**BIOL 503 Special Topics in Ecology (3-4)**

Investigation of advanced, specific areas of ecology beyond BIOL 341. Examples of offerings may include marine microbial ecology, phytoplankton ecology, benthic ecology, community ecology, and population ecology. Open to students with junior or senior standing who have completed at least 15 semester hours in biology and have a GPA of at least 3.0 in all biology courses. Students not meeting these requirements may enroll with permission of the instructor and department chair.

*Prerequisites:* BIOL 111/111L, BIOL 112/112L, BIOL 211/211D, and BIOL 305. BIOL 341 or permission of the instructor.

*Note:* This course may sometimes include a lab, in which case the number of credits will be four.

## Business Law Courses

**BLAW 205 Legal Environment of Business (3)**

This course is designed to emphasize the legal environment of business and the pluralistic nature of the economy of the United States. The principal federal and state regulations as well as common law relationships applicable to businesses are presented to provide the student with an understanding of the limitations and consequences of business decisions, as well as the social and ethical responsibilities implicit in decision making. Topics to be covered include: introduction to law and legal system; white collar crimes and torts; ethics and social responsibility; negligence and product liability; administrative law; law of agency, partnership, corporations, and securities; ownership of real and personal property; bailments; overview of real and personal property; and overview of antitrust.

*Prerequisite:* Sophomore standing.

**HONS 210 Honors Business Law (3)**

This is the Honors equivalent of BLAW 205. It is designed to introduce the student to the legal, ethical and regulatory environment of business. Students will focus on the laws of contract, property and torts once a foundation of the legal system is established. Analysis of ethical considerations in a business environment

will strengthen the student's ability to make critical decisions in the strategic arena of business.

*Prerequisites:* Junior standing and other prerequisites as required.

**BLAW 306 Law for Business Managers (3)**

Designed to cover the legal issues encountered by business managers, this course includes a thorough examination of fair employment practices (Title VII); affirmative action; OSHA; workmen's compensation; unemployment compensation insurance; choice of legal form, i.e., sole proprietorship, partnership, or corporation; product liability; negligence; and legal aspects of hiring and firing of employees.

*Prerequisites:* Junior standing; BLAW 205 or permission of the instructor.

**BLAW 309 Legal Environment of International Business (3)**

This course will introduce students to the legal environment of international business. From the basic overview of trade regulation, to the international sales contract, the student will be exposed to factors affecting the international legal environment. Students use knowledge gained here in strategic analysis of international business activity.

*Prerequisite:* Junior or senior standing.

**BLAW 360 ST: Business Law**

An in-depth treatment of a current area of special concern within the field of business law.

*Prerequisites:* Junior standing and other prerequisites as required.

## Chemistry and Biochemistry Courses

**CHEM 101 General Chemistry (3)**

A course designed to meet the needs of both the non-science major and the students entering allied health fields. Emphasis is placed on basic chemistry concepts, giving the student a strong background in a variety of topics in order to appreciate the role of science and particularly chemistry in modern-day life. Topics include atomic structure, chemical bonding, stoichiometry, kinetics, equilibria, acids and bases, and nuclear

chemistry. Lectures three hours per week. Competency at the MATH 101 level and beyond is suggested. CHEM 101 is not open to students who have completed CHEM 111 or 112.

*Co-requisite:* CHEM 101L.

**CHEM 101L General Chemistry Laboratory (1)**

A laboratory program to accompany CHEM 101. Experiments are designed to introduce students to chemical techniques and to illustrate concepts covered in the classroom. Laboratory three hours per week.

*Co-requisite:* CHEM 101.

**CHEM 102 Organic and Biological Chemistry (3)**

This course is designed to meet the needs of allied health students; but it is also suitable for any nonscience major. This is a descriptive course that covers organic and biological chemistry. Topics include organic functional groups, reactions, carbohydrates, lipids, proteins, nucleic acids, and metabolism. Lecture three hours per week.

*Prerequisite:* CHEM 101 or CHEM 111.

*Co-requisite:* CHEM 102L.

**CHEM 102L Organic and Biological Chemistry Laboratory (1)**

A laboratory program to accompany CHEM 102. Designed to enhance chemical laboratory skills and to illustrate the concepts covered in CHEM 102. Laboratory three hours per week.

*Co-requisite:* CHEM 102.

**CHEM 111 Principles of Chemistry (3)**

An introductory course in chemistry emphasizing theoretical aspects and designed primarily for students who intend to take one or more additional courses in chemistry. Lectures three hours per week.

*Co-requisite:* CHEM 111L; Unless students exempt MATH 111 (via diagnostic testing) or have completed this course as a prerequisite, they are required to take MATH 111 as a co-requisite.

*Note:* Students may not receive credit toward graduation for both CHEM 111 and HONS 153.

**CHEM 111L Principles of Chemistry Laboratory (1)**

A laboratory course designed to introduce students to the application of the scientific method in solving chemical

problems and to acquaint them with specific tools and techniques used in the chemistry laboratory, while reinforcing and illustrating concepts encountered in lecture. Laboratory three hours per week.

*Co-requisite:* CHEM 111.

*Note: Students may not receive credit toward graduation for both CHEM 111L and HONS 153L.*

### **CHEM 112 Principles of Chemistry (3)**

An introductory course in chemistry emphasizing theoretical aspects and designed primarily for students who intend to take one or more additional courses in chemistry. Lectures three hours per week.

*Prerequisites:* CHEM 111 and 111L.

*Co-requisite:* CHEM 112L. Students enrolling in CHEM 112 are urged to take MATH 120.

*Note: Students may not receive credit toward graduation for both CHEM 112 and HONS 154.*

### **CHEM 112L Principles of Chemistry Laboratory (1)**

A laboratory course designed to introduce students to the application of the scientific method in solving chemical problems and to acquaint them with specific tools and techniques used in the chemistry laboratory, while reinforcing and illustrating concepts encountered in lecture. Laboratory three hours per week.

*Prerequisites:* CHEM 111 and 111L.

*Co-requisite:* CHEM 112. Students may not receive credit toward graduation for both CHEM 112L and HONS 154L.

### **CHEM 221 Quantitative Analysis (4)**

A study of the chemistry of quantitative analysis. Special attention is given to equilibria involving acids, bases, precipitates, complexions and oxidizing and reducing agents. In the laboratory, an opportunity is provided for solving problems in gravimetric and volumetric analysis, along with an introduction to the use of instruments for chemical analysis. Lecture two hours per week; laboratory six hours per week.

*Prerequisites:* CHEM 112, 112L.

### **CHEM 231 Organic Chemistry (3)**

An introduction to the chemistry of carbon-containing compounds. A systematic study of nomenclature, structure, properties, and reactions of

aliphatic and aromatic compounds. Attention is given to recent developments and interpretation of structure and reaction mechanisms. Lecture three hours per week.

*Prerequisites:* CHEM 112 and 112L or their equivalents.

*Co-requisite:* CHEM 231L.

### **CHEM 231L Introduction to Organic Chemistry Laboratory Techniques (1)**

Theories underlying standard organic laboratory techniques are introduced. The student then applies these methods to the synthesis, isolation and purification of representative organic compounds. The student is introduced to the use of instrumental and spectral methods in organic chemistry.

*Co-requisite:* CHEM 231.

### **CHEM 232 Organic Chemistry (3)**

An introduction to the chemistry of carbon-containing compounds. A systematic study of nomenclature, structure, properties and reactions of aliphatic and aromatic compounds. Attention is given to recent developments and interpretation of structure and reaction mechanisms. Lecture three hours per week.

*Prerequisites:* CHEM 231 and 231L.

*Co-requisite:* CHEM 232L.

### **CHEM 232L Organic Synthesis and Analysis (1)**

The methodology and strategy of organic synthesis are developed further through the use of synthetic procedures. The combined use of chemical and spectral methods to identify organic compounds is continued.

*Prerequisites:* Both CHEM 231 and 231L.

*Co-requisite:* CHEM 232.

### **CHEM 341 Physical Chemistry I (3)**

Basic principles of chemistry treated primarily from a theoretical viewpoint. The major topics covered are atomic and molecular structure; elementary thermodynamics and statistical mechanics; properties of gases, liquids, and solids; theories of solution; homogeneous and heterogeneous equilibria; electrochemistry and surface chemistry; spectroscopy; transport

processes; and chemical kinetics. Lectures three hours per week.

*Prerequisites:* CHEM 221 and MATH 220; MATH 221 is strongly recommended.

*Co-requisite:* CHEM 341L.

### **CHEM 341L Physical Chemistry I Laboratory (1)**

A laboratory program to accompany CHEM 341. Laboratory three hours per week.

*Co-requisite:* CHEM 341.

### **CHEM 342 Physical Chemistry II (3)**

Basic principles of chemistry treated primarily from a theoretical viewpoint. The major topics covered are atomic and molecular structure; elementary thermodynamics and statistical mechanics; properties of gases, liquids, and solids; theories of solution; homogeneous and heterogeneous equilibria; electrochemistry and surface chemistry; spectroscopy; transport processes; and chemical kinetics. Lectures three hours per week.

*Prerequisites:* CHEM 341 and 341L.

*Co-requisite:* CHEM 342L.

### **CHEM 342L Physical Chemistry II Laboratory (1)**

A laboratory program to accompany CHEM 342. Laboratory three hours per week.

*Prerequisites:* CHEM 341 and 341L.

*Co-requisite:* CHEM 342.

### **CHEM 343 Introduction to Modeling in Chemistry (1)**

An introduction to computer modeling of various properties and structures of molecules, thermodynamic properties and structures of simple crystals, and the kinetics of chemical reactions.

*Prerequisite:* CHEM 231.

### **CHEM 351 Biochemistry (3)**

An introduction to the chemistry of biological compounds. A systematic study of carbohydrates, lipids, amino acids, proteins, nucleic acids and their components is presented. Metabolism of biological compounds is studied, as are the interrelations among the carbon, nitrogen and energy cycles. Lectures three hours per week.

*Prerequisites:* CHEM 232 and 232L.

**CHEM 352 Biochemistry II (3)**

A continuation of CHEM 351 with an emphasis on the chemistry of physiological systems. Topics to be included are the biosynthesis of amino acids and nucleotides, molecular biology, biochemistry of contractile systems, active transport, drug metabolism and neurochemistry.

*Prerequisite:* CHEM 351.

**CHEM 354L Biochemistry Lab (1)**

A laboratory program designed to introduce the student to the study of biological molecules. Experiments will include procedures for the quantification, isolation and characterization of various cellular components.

*Prerequisite:* CHEM 351.

**CHEM 371 Chemical Synthesis and Characterization (3)**

A study of the chemistry of and methods for the synthesis, separation and identification of chemical compounds. Emphasis is given to specialized techniques involved in synthesizing organic and inorganic compounds, and to identification of compounds by spectral methods. Lectures one hour per week; laboratory six hours per week.

*Prerequisites:* CHEM 221, 232, 232L.

**CHEM 381 Internship (1-4)**

A field internship in a non-academic lab. A faculty advisor will be appointed to award the grade to be received. Arrangements for the internship must be made prior to the semester in which it is carried out. One hour of credit will be awarded for each 45 lab hours completed.

*Prerequisites:* Junior or senior standing and at least a 2.5 GPA both overall and in the major.

*Note:* Repeatable up to a maximum of four credit hours earned.

**CHEM 397 Research Experience Chemistry and Biochemistry (0)**

A student works under faculty supervision to learn a research method, to explore possible research topics, or to continue an ongoing study. The faculty member helps the student to determine the course goals and objectives, and supervises the execution of the project. The student will provide a written report to the faculty at the end of the semester.

Students will receive a grade of "S" (satisfactory) or "U" (unsatisfactory) for the course.

*Prerequisites:* Only majors may take a Zero Credit Research course. Permission of the instructor and approval of the department chair.

**CHEM 399 TUTORIAL (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually three hours per week).

*Prerequisites:* Junior standing plus permission of the tutor and the department chair.

**CHEM 481 Introductory Research I (2)**

An opportunity is provided to use the literature and to apply a variety of experimental techniques in the investigation of selected problems under the direction of a faculty mentor in inorganic, analytical, organic, physical, or biochemistry. A seminar, written report, poster, or other presentation is required. Arrangements for a project should be made with the faculty mentor during the semester prior to that in which it is carried out.

**CHEM 482 Introductory Research II (2)**

A continuation of CHEM 481. Open to students who have done satisfactory work in CHEM 481. A seminar, written report, poster or other presentation separate from that required for CHEM 481 is required.

**CHEM 490 Chemistry and Biochemistry Seminar (1)**

A weekly seminar to prepare students for careers in chemistry and biochemistry and to present recent advances in the field. Seminar one hour per week. May be repeated once for credit.

*Prerequisite:* Junior or senior standing.

**CHEM 492 Senior Seminar (1)**

A weekly seminar to be taken during the calendar year in which a student is to graduate. Oral and written projects will be required as well as an exit examination. Seminar, one hour per week.

*Prerequisites:* CHEM 341 and senior status.

**CHEM 499 Bachelors's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a mentor from the department. The student must take the initiative in seeking a mentor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course. A specific format is required for the preparation of the final document.

**CHEM 511 Advanced Inorganic Chemistry (3)**

An advanced course that aims to provide a balanced view of the theoretical principles involved in present-day inorganic research. Topics include atomic structure, chemical bonding, coordination chemistry, symmetry and applications, organometallic chemistry, and chemistry of the main group elements.

*Co-requisites or prerequisites:* CHEM 341 and 342.

**CHEM 512L Advanced Inorganic Chemistry Laboratory (1)**

A study of advanced methods for synthesis, separation and identification of inorganic compounds. Laboratory three hours per week.

*Prerequisite:* CHEM 511.

**CHEM 521 Instrumental Analysis (4)**

Theory and principles underlying the techniques of modern analytical chemistry. The student carries out qualitative and quantitative analysis using chromatographic, spectrophotometric, electroanalytical, magnetic resonance, radiochemical and other selected instrumental techniques. Lectures three hours per week; laboratory three hours per week.

*Prerequisite:* CHEM 221.

**CHEM 522 Environmental Chemistry (3)**

An introduction to the chemistry of natural systems with an emphasis on marine and coastal and other problems. The cycling of chemical species, the effect of man-made inputs, and environmental analytical methodology will be stressed. Lectures three hours per week.

*Prerequisite:* CHEM 221.

**CHEM 522L Environmental Chemistry Laboratory (1)**

An introduction to sampling and measurement techniques used to characterize the environment. Electrochemical, spectroscopic and chromatographic techniques will be used with both laboratory and field investigations. Laboratory three hours per week.

*Co-requisite or prerequisite:* CHEM 522.

**CHEM 526 Introduction to Nuclear and Radiochemistry (1)**

An introduction to the fundamental theories and applications of nuclear and radiochemistry. This short course surveys the structure of the nucleus, radioactive decay modes, the detection and measurement of nuclear radiation and application of radiochemical method as to medical, environmental and scientific problems. Lecture three hours per week.

*Prerequisites:* CHEM 221 or CHEM 231 and CHEM 231L, or permission of the instructor.

*Note: A student cannot receive credit for both CHEM 526 and CHEM 528.*

**CHEM 528 Nuclear and Radiochemistry (3)**

An introduction to nuclear and radiochemistry stressing the fundamentals of nuclear structure; systematics of nuclear decay; the detection and measurement of radiation; radiation protection; and the role of nuclear chemistry in medical, environmental and scientific applications. The nuclear fuel cycle and nuclear waste problems will be discussed. Lectures three hours per week.

*Prerequisites:* CHEM 221 or 231 and 231L, or permission of the instructor.

*Note: A student cannot receive credit for both CHEM 526 and CHEM 528.*

**CHEM 531 Advanced Organic Chemistry (3)**

The major concepts of organic chemistry are reviewed along with a review of relevant material already presented in introductory organic chemistry courses. Special topics may include heterocycles, organic polymers, organic reaction mechanisms, spectral utilization, synthesis methodology, the utilization of molecular orbitals and orbital symmetry for certain organic reactions. Lectures three hours per week.

*Prerequisite:* CHEM 232.

**CHEM 541 Advanced Physical Chemistry (3)**

A supplemental course to CHEM 341 and 342 dealing primarily with molecular structure and bonding and with statistical thermodynamics.

*Prerequisite:* CHEM 342.

**CHEM 583 Special Topics in Chemistry (1-3)**

This course is normally divided into thirds. Each third deals with a recent development in chemistry or with advanced theoretical concepts not included in other chemistry courses. Topics are taken from all areas of chemistry and will vary from semester to semester. The student may enroll for one, two, or three of the sub-courses. Occasionally, a full semester single course is offered (e.g., Organic Polymer Chemistry).

*Prerequisite:* Permission of the instructor.

## Chinese Courses

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**CHNS 101 Elementary Mandarin Chinese (4)**

Introduces the fundamental structures of Chinese, with emphasis on acquisition of basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* Open only to beginning students of Chinese.

**CHNS 102 Elementary Mandarin Chinese (4)**

Introduces the fundamental structures of Chinese, with emphasis on acquisition of basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* Placement or CHNS 101.

**CHNS 201 Intermediate Mandarin Chinese (4)**

Develops basic proficiency in Chinese and familiarity with Chinese culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or CHNS 102.

**CHNS 202 Intermediate Mandarin Chinese (4)**

Develops basic proficiency in Chinese and familiarity with Chinese culture through practice in the use of the basic

language skills and acquisition of vocabulary.

*Prerequisite:* Placement or CHNS 201.

**CHNS 313 Conversation and Composition (3)**

Further practice in the written and spoken Chinese. Assigned readings and compositions. As much as possible, the course will be conducted primarily in Mandarin Chinese.

*Prerequisite:* CHNS 202 or placement.

**CHNS 314 Conversation and Composition (3)**

Further practice in the written and spoken Chinese. Assigned readings and compositions. As much as possible, the course will be conducted primarily in Mandarin Chinese.

*Prerequisite:* CHNS 313 or placement.

**CHNS 330 Collateral Study (1-3)**

Individually supervised course of reading in Chinese and in the subject area of a concurrent course offered by another department. The nature and extent of readings will be determined in consultation among student, instructor of the primary subject matter course, and the language instructor who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to a maximum of six credit hours in conjunction with other primary courses.

**CHNS 390 Chinese Special Topics in Chinese (3)**

Intensive study of a particular subject or theme. Specific topics will be listed in the Schedule of Courses when offered (e.g., "Survey of Modern Chinese Literature").

*Prerequisite:* CHNS 313 or 314 or permission of the instructor.

**CHST 240 Special Topics in Chinese Studies (3)**

An examination of a broad chronological or thematic area of Chinese Studies for which no regular course is offered. The course may be repeated for credit if the content is different. The specific content will be listed when the course is offered. To be taught in English.

**CHST 340 Special Topics in Chinese Studies (3)**

An examination of a specific and limited chronological or thematic area of Chinese Studies for which no regular course is offered. The course may be repeated for credit if the content is different. The

specific content will be listed when the course is offered. Course will be taught in English.

### **LTCH 250 Chinese Literature in (English) Translation (3)**

Study of selected works, representing major literary periods and genres that illuminate Chinese culture.

## **Classics Courses**

### **CLAS 101 Ancient Greek Civilization (3)**

A survey of ancient Greek literature, art, society, and history, from the Minoan period to the imperial era, with an emphasis on fifth-century Athens.

### **CLAS 102 Roman Civilization (3)**

A survey of Roman literature, art, society, and history, from the Etruscan period to the era of Constantine, with an emphasis on the Augustan age.

### **CLAS 103 Classical Mythology (3)**

An introduction to the divine myths and heroic legends of ancient Greece and Rome as found in literature and art. Other topics will include theories, both ancient and modern, about myth; the functions of myth in religion and society; and the influence of classical myth on subsequent literature and art.

### **CLAS 104 Introduction to Classical Archaeology (3)**

A survey of major sites, artifacts, and monuments of the Classical world from Bronze Age Greece through Imperial Rome. Emphasis on the development of archaeology as a discipline and issues such as recording and interpretation of evidence, relationship between historical and archaeological events and use and misuse of ancient texts.

### **CLAS 105 History of the Classical World (3)**

A survey of major developments in the history of Ancient Greece and Rome. Proceeding in chronological order, the course covers more than 2,000 years of history, from the development of Bronze Age civilizations and continuing through the fall of the Roman Empire. Drawing upon diverse primary sources, class sessions will explore developments in political, social, economic, cultural and intellectual history.

### **CLAS 111 Medical Terminology in Greek and Latin (3)**

This course offers a systematic approach to understanding the technical vocabulary of the medical professions through an analysis of Latin and Greek elements in English words and the underlying etymological principles. NOTE: This course does not count toward the minimum degree requirement in humanities.

### **CLAS 121 Classical Greece (3)**

An introduction to the art, architecture, history, and society of classical Greece through first-hand examination of major archaeological sites, visits to museums, and lectures. NOTE: This is a travel course. Students must be able to walk along moderately difficult trails.

### **CLAS 122 Bronze Age Greece (3)**

An introduction to the art, architecture, history, and society of Greece during the Aegean Bronze Age through first-hand examination of major archaeological sites, visits to museums, and lectures. NOTE: This is a travel course. Students must be able to walk along moderately difficult trails.

### **CLAS 203 Special Topics (3)**

An examination of selected themes or issues in ancient Greek or Roman civilization. May be repeated for credit if the subject matter varies.

### **CLAS 221 Field Methods in Classical Archaeology I (3)**

Introduction to major methods of fieldwork through active participation in an archaeological project.

*Note: This is a travel course.*

### **CLAS 222 Field Methods in Classical Archaeology II (3)**

A continuation of CLAS 221 with further development of methods of archaeological fieldwork through active participation in an archaeological project.

*Co-requisite or prerequisite: CLAS 221.*

*Note: This is a travel course.*

### **CLAS 242 Images of Women in Classical Antiquity (3)**

A survey of the roles of women in classical Greece and Rome. Beginning with the prehistoric cultures of Crete and Mycenae, students analyze the roles of

women through an examination of the images of women in art, literature and historical documents of ancient Greece and Rome.

### **CLAS 253 Ancient Epic (3)**

Historical backgrounds and study of the ancient epic tradition as a whole. Reading and analysis of Homer's Iliad and Odyssey, Apollonius' Argonautica, and Virgil's Aeneid.

### **CLAS 254 Tragedy (3)**

A survey of Greek and Roman tragedy as represented by the works of Aeschylus, Sophocles, Euripides, and Seneca.

### **CLAS 255 Comedy (3)**

A survey of Greek and Roman comedy as represented by the works of Aristophanes, Menander, Plautus and Terence.

### **CLAS 256 Ancient Satire (3)**

The beginnings and development of satirical literature at Rome and the later adaptation of the genre. Concentration on the works of Horace, Juvenal, Martial, and Lucian.

### **CLAS 270 The Romans in Cinema (3)**

This course will consider Roman civilization and its creative representation in motion pictures. Topics to be explored include the historical development of the Roman Empire; the social institution of slavery; public entertainment in the circus and amphitheater; and the religion of pagans, Jews, and Christians.

### **CLAS 290 Special Topics in Classics (3)**

Intensive studies designed to supplement or to investigate more fully the offerings in the Classics curriculum.

### **CLAS 301 Topics in Ancient Greek Literature (3)**

An intensive examination of selected figures, themes, or issues in ancient Greek literature. May be repeated for credit if the subject matter varies.

*Prerequisite:* Three semester hours in Classics or permission of the instructor.

### **CLAS 302 Topics in Latin Literature (3)**

An intensive examination of selected figures, themes, or issues in Latin literature. May be repeated for credit if the subject matter varies.

*Prerequisite:* Three semester hours in Classics or permission of the instructor.

### **CLAS 303 Topics in Classical Civilization (3)**

An intensive examination of selected figures, themes, or issues in ancient Greek or Roman civilization. May be repeated for credit if the subject matter varies.

*Prerequisite:* Three semester hours in Classics or permission of the instructor.

### **CLAS 390 Special Topics (3)**

#### **CLAS 399 Tutorial (3)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing, plus permission of the tutor and the Classics program director.

#### **CLAS 401 Research Seminar in Classics (3)**

A topical seminar focused around a central theme, figure or issue in ancient Greek or Roman civilization. A major research paper is required. Specific topic will be listed with the course title when offered. May be repeated for credit if the topic varies.

*Prerequisites:* Junior or senior standing and permission of the instructor and program director.

#### **CLAS 499 Bachelor's Essay (6)**

Individual research project supervised by an advisor.

*Prerequisites:* Junior standing, plus permission of the advisor and the Classics program director.

## **Communication Courses**

### **COMM 104 Public Speaking (3)**

The fundamentals of oral communication as they pertain to public speaking. An introduction to the techniques and skills involved in preparing and delivering various types of speeches. Attention is given to voice, diction, and platform presence.

Note: This course does not count toward major requirements. Students who have completed COMM 110/111 may not

subsequently receive credit toward graduation for COMM 104.

### **COMM 105 Forensic Lab (1, Repeatable up to 4)**

Preparation for participation in intercollegiate forensics and competitive speech activities including debate, prepared and limited time speaking events, and oral interpretation events. Participation on and travel with the college forensic team are required.

*Note:* This course does not count toward the major or minor requirements.

### **COMM 110 Introduction to Communication Messages (3)**

This course provides students majoring in communication with a foundation in writing and speaking competencies essential to success in the communication major. The course is scheduled across two academic terms (e.g. fall semester, spring semester).

### **COMM 111 Introduction to Communication Messages (3)**

This course provides students majoring in communication with a foundation in writing and speaking competencies essential to success in the communication major. The course is scheduled across two academic terms (e.g. fall semester, spring semester).

### **COMM 210 Introduction to Communication Theory (3)**

As a survey course of various humanistic and social scientific communication theories, this course considers the principles, contexts, and development of human communication. Course topics include discussion and application of interpersonal, relational, organizational, symbolic, rhetorical, media, gender and intercultural communication theories.

### **COMM 211 Oral Interpretation (3)**

A study of the form and content of poetry, prose, and dramatic literature as they affect the performance of the oral interpreter.

Note: This course does not count toward major or minor requirements.

### **COMM 213 Debate (3)**

Develops skills in critical reasoning and argument. Discussion of case construction, rules of evidence,

refutation, and debate strategies. Practice in value and policy debating.

*Prerequisite:* COMM 104 or permission of the instructor.

### **COMM 214 Media in the Digital Age (4)**

Theories of mature and emerging communication media, with emphasis on their development, functions, ethical implications, and legal status. Personal media and mass media are considered.

### **COMM 215 Communication, Identity and Community (4)**

This course explores the symbolic and social construction of meaning through the study of social-scientific theories of communication. Considers the implications of communication for group and organizational identity and the formation of relationships in a variety of contexts

### **COMM 220 Interpersonal Communication (3)**

An introduction to the basic concepts and theories relevant to understanding the role of communication in the development and maintenance of relationships. Course topics include information processing, perception, verbal and nonverbal communication, listening skills, self concept, male/female communication, family communication, conflict management, and interpersonal persuasion.

### **COMM 221 Intercultural Communication (3)**

This course is designed to provide a survey and introduction to intercultural communication theory and practice, and to develop students' understanding of the influence upon communication between/among people of different cultural backgrounds both in domestic and international settings across a variety of contexts.

### **COMM 222 Small Group Communication (3)**

An introduction to the major theories, issues, and concepts related to the study of small group interaction. Course topics include the process of group development, roles and rules in group communication, decision-making, leadership, and conflict management. Case studies, activities, and exercises are incorporated to emphasize both theory and practice.

**COMM 230 Writing for the Mass Media (3)**

Study of and practice in the fundamentals of news, feature, investigative, and editorial writing. Interviewing techniques and various methods of organizing and gathering the news are emphasized, along with the successful completion of writing assignments.

**COMM 235 Public Relations Practices (3)**

This course serves as both an introduction to the field of public relations, and as the first of a three-course PR sequence (COMM 335 and COMM 435). Major emphasis is placed on writing skill, as well as an understanding of theoretical, historical, legal, and ethical issues. Assignments will address the building of relationships with both mass media and within the corporate/organizational realm. Students also are provided opportunities to present oral and written synopses of case studies and related issues.

**COMM 240 Introduction to Broadcast News (3)**

This course explores unique aspects of broadcast news writing styles, newsworthiness of issues, and news gathering. Students cover stories and write for both radio and television broadcasts. Legal and ethical considerations and issues pertaining to broadcast news are emphasized throughout the course.

*Prerequisite:* COMM 230 or permission of the instructor.

**COMM 245 Introduction to Television Production (3)**

This course explores both the technical and creative processes required to communicate ideas to an audience using videographic form. Topics include preproduction, production and post-production phases of videography and emphasizes the artistic and creative communication elements required of each. Students will gain hands-on experience with camerawork and editing, meet television professionals and take field trips related to television production.

*Prerequisite:* COMM 214, COMM 230, or permission of the instructor.

**COMM 285 Basic Photojournalism (3)**

The course focuses on the basic principles and practices of digital

photojournalism and documentary photography, emphasizing creative visual communication techniques. Students furnish their own digital cameras and other equipment. More specific digital camera requirements may be found on the department's website.

*Prerequisite:* COMM 214 or permission of the instructor.

**COMM 301 Communication Research Methods (3)**

Qualitative and quantitative methods employed in communication research, including experiments, surveys, textual analysis, and ethnography.

*Prerequisites:* COMM 210 with a grade of C- or better; MATH 104 or MATH 250 with a grade of C- or better; and junior or senior status; or permission of the department chair.

**COMM 310 Message Design and Influence (3)**

Crafting messages for particular contexts and publics. Students develop advanced writing skills and demonstrate proficiency in information gathering, message design and visual communication. Topics vary depending on the course section and instructor. When course topics vary, the course is repeatable for elective credit with the permission of the department chair.

*Prerequisites:* COMM 104 or COMM 110; COMM 214 or COMM 215; CSCI 112 or higher; or permission of instructor. Pre- or co-requisite COMM 111.

**COMM 315 Ethical Communication (3)**

This course uses case studies and the analysis of historical and contemporary issues to illuminate ethical concerns in or across specific communication contexts. Topics vary depending on the course section and instructor. When course topics vary, the course is repeatable for elective credit with the permission of the department chair.

*Prerequisites:* COMM 104 or COMM 110; COMM 214 or COMM 215; or permission of instructor.

**COMM 320 Advanced Interpersonal Communication (3)**

This course considers advanced concepts and theories relevant to understanding the role of communication in the development and maintenance of

relationships. Complex theories of interpersonal communication are explored in depth and applied to the construction of voluntary, long-term relationships.

*Prerequisite:* COMM 220.

**COMM 322 Feature Writing (3)**

The study of generating, developing and organizing ideas for newspaper and magazine articles. Students will adapt their writing to many audiences and will write various types of feature articles, stressing organization, coherence, structure, and mechanics.

*Prerequisite:* COMM 230.

**COMM 324 Speech Writing (3)**

This course offers a comprehensive look at speechwriting by exploring written and videotaped speeches, then applying what we've learned to our own speeches. We will examine and utilize rhetorical theories that are foundations for speechwriting. The course is designed so that students will write speeches for themselves, each other and outside individuals and organizations. Hence, this course is writing-intensive and not performance-based.

*Prerequisite:* COMM 104; COMM 382 is highly recommended.

**COMM 326 Organizational Communication (3)**

Organizational Communication explores the concepts and theories relevant to communication in an organizational context. Course topics include organizational theories, socialization of employees, the role of the individual in the organization, communication and leadership, group and individual decision-making processes and conflict.

*Prerequisite:* COMM 210 or permission of the instructor.

**COMM 327 Sports Writing (3)**

Students apply skills in interviewing, research, and direct observation to write news stories, features, and opinion pieces about sports at the professional, college, high school, and weekend-athlete levels. Students learn to write about sports in the broad context of business, political and social issues.

*Prerequisite:* Students must be juniors or seniors who have taken COMM 230 or

have permission from the instructor to enroll.

### **COMM 329 Opinion Writing (3)**

A course in editorial and opinion writing for the mass media. Students will analyze and discuss current events as a basis for critical thinking and for their writing. In addition, students will evaluate editorials and columns in leading newspapers and magazines and will study and practice the techniques involved in writing art, drama, music, and book reviews.

*Prerequisite:* COMM 230.

### **COMM 331 Advanced Public Speaking (3)**

An examination of formal communication in a variety of public contexts. Course topics include the responsibilities of the speaker in a variety of situations, critical listening, and theories of motivation and persuasion. Assignments will include both oral presentations and written analysis.

*Prerequisite:* COMM 104 or permission of the instructor.

### **COMM 332 Business Communications (3)**

An intensive course in communication theory (oral and written) and the application of theory to oral presentations and to writing letters, memoranda, and reports.

*Prerequisite:* ENGL 102 or ENGL 110.

### **COMM 335 Public Relations Writing (3)**

The course emphasizes managing relationships through the implementation of targeted writing skills. Traditional facets such as news releases, pitch letters, and brochures will be emphasized along with research proposals, speechwriting and corporate documents. Persuasion and presentation skills will be stressed in addition to writing competence. Layout and design skills will also be broached contextually.

*Prerequisite:* COMM 230 and 235 or permission of the instructor.

*Note: Course description and prerequisites updated.*

### **COMM 336 Addressing Problems in Context (3)**

This course engages students in identifying analyzing and proposing solutions to one or more communication problems. Topics vary depending on the course section and instructor. When

course topics vary, the course is repeatable for elective credit with the permission of the department chair.

*Prerequisites:* COMM 104 or COMM 110; COMM 214 or COMM 215; or permission of instructor.

### **COMM 337 Strategic Communication Management (3)**

This course concerns the management of the communication function in corporations, agencies, non-profit entities and government organizations. Particular emphasis will be placed on developing effective communication strategies to accomplish organizational goals and objectives.

*Prerequisites:* COMM 230, COMM 235, and junior or senior standing; or permission of the instructor.

### **COMM 340 Television News Reporting (3)**

This course emphasizes television news gathering and the elements of planning, videotaping, interviewing, writing, producing, and editing news stories. Coursework includes writing assignments, making news judgment and editorial decisions and on-camera reporting and anchoring. Legal and ethical concerns are emphasized throughout the course.

*Prerequisite:* COMM 240 or permission of the instructor.

### **COMM 360 Communication and Technology (3)**

This course explores the intersection of communication and new technologies from organizational, interpersonal, and mass communication perspectives. Course topics include computer-mediated communication (CMC), online identities, online relationships, virtual communities, and popular culture.

*Prerequisites:* COMM 210 and junior or senior standing.

### **COMM 365 American Public Address (3)**

The study of American public address from the Depression to the present. Influential social and political leaders and their speeches will be studied for the purpose of understanding the techniques they used in preparing and presenting speeches; specific attention will be paid to the use of language, arguments, support materials, and the effectiveness of the speech.

*Prerequisite:* Junior or senior standing or permission of the instructor.

### **COMM 370 Gender and Communication (3)**

This course explores the multiple relationships between gender and communication, specifically focusing on gender-based influences in communication between men and women, and how communication works to create gender roles and identity. The course integrates theory and practice to heighten our sensitivity to gender differences and similarities in the communication process.

*Prerequisites:* COMM 210 or WGST 200 and junior or senior standing; or permission of the instructor.

### **COMM 375 Editing (3)**

Principles, concepts, and practice of news and magazine editing, including copy reading, headline writing, makeup and design of pages, picture-editing techniques and effective use of graphics and typography.

*Prerequisite:* COMM 230 or permission of the instructor.

### **COMM 378 Persuasion (3)**

This course considers classical and contemporary theories of persuasion and propaganda, including ethical perspectives relevant to these theories. Topics include source and audience factors, message and media effects and social and cultural influences in persuasion.

*Prerequisite:* COMM 210 or permission of the instructor.

### **COMM 380 Studies in Communication (1-3)**

Special studies in oral, written or print communication theory and broadcast journalism. (Students may receive no more than six hours for two courses.)

*Prerequisites:* COMM 210 and three additional COMM credit hours; or permission of the instructor.

### **COMM 382 Theories of Rhetoric (3)**

A survey of classical and contemporary rhetorical theory, focused on how various thinkers have analyzed the issues of form/content, audience, knowledge, cultural context, and strategies of discourse. Study of the differences among oral, written, and mediated communication, and the rhetorical

aspects of effective expression and critical thinking. Readings range from Plato and Aristotle to Burke, Weaver, and Perelman.

*Prerequisites:* COMM 210 and either junior or senior standing; or permission of the instructor.

### **COMM 383 Media Criticism (3)**

A critical examination of a variety of forms of media from a rhetorical perspective to identify and understand cultural assumptions made by the media. Course topics include methods of criticism, types of media persuasion, effects of media on the consumers of this discourse, and critical evaluation of media messages.

*Prerequisites:* COMM 210 and either junior or senior standing; or permission of the instructor.

### **COMM 384 Ethics in Communication (3)**

An examination of issues of communication freedoms and the ethical responsibilities addressed by them. Course topics include defamation, invasion of privacy, stirring to prejudice and hatred, symbolic battery, intimidation and coercion, and an examination of different philosophical bases of ethical practices in communication.

*Prerequisites:* COMM 210 and either junior or senior standing; or permission of the instructor.

### **COMM 386 Media Law (3)**

The study of federal and state regulations of both print and broadcast media to understand how legal mandates and constraints have defined the roles of the media in society. Course topics include historical and contemporary analysis of libel, privacy, free press and fair trial, access to government information, regulation of advertising, and regulation of broadcasting.

*Prerequisite:* Junior or senior standing or permission of the instructor.

### **COMM 387 Rhetoric of Social Movements (3)**

This course explores the rhetorical strategies that initiate and sustain social movements. This course offers an analysis of the scope and constraints on public expression that aim to motivate social change and offers a review of critical perspectives on symbolic campaigns, argumentative styles, and

persuasive functions typical of social movements.

*Prerequisites:* COMM 210 and either junior or senior standing; or permission of the instructor.

### **COMM 389 Public Opinion in American Politics (3)**

This course covers the formation, expression, and measurement of American public opinion, with a particular focus on the role of media in shaping and representing opinion, in order to better understand how citizens think about and react to the political world.

*Prerequisite:* POLS 101 or COMM 214; or permission of the instructor.

### **COMM 394 Political Campaign Communication (3)**

This course examines the communication strategies employed in local, state, and national political campaigns. Topics include message design, political speeches, political advertising, and media relations.

*Prerequisite:* COMM 210 or POLS 101 or permission for the instructor.

### **COMM 395 American Politics and Mass Media (3)**

This course explores how political discourse and institutions are changing the current mass communication technology and practices. This course pays special attention to the intersection of the media practices and campaigns, the presidency, public opinion and political engagement.

*Prerequisite:* POLS 101 or COMM 214; or permission of the instructor.

### **COMM 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in a regularly scheduled meeting (usually once a week).

*Prerequisites:* Junior or senior standing, plus permission of the tutor and the department chair.

### **COMM 405 Independent Study in Communication (1-3)**

Research in a specified communication area in consultation with a department member who will guide the work and determine the hours of credit. Open to juniors and seniors with permission of the instructor and the department chair.

(Students may receive no more than six hours of credit for this course.)

Note: This course applies for major or minor credit with the written permission of the department chair.

### **COMM 410 Analysis of Communication Practice (4)**

Advanced writing course emphasizing the interrogation of historical and/or contemporary communication practices. Topics vary depending on the course section and instructor. When course topics vary, the course is repeatable for elective credit with the permission of the department chair.

*Prerequisites:* COMM 110 /COMM 111; COMM 214; COMM 215; COMM 301; COMM 310; or permission of the department chair.

### **COMM 414 Mass Media and Society (3)**

The course examines how the mass media influence American society. This course considers contemporary mass media issues within the framework of media theory (e.g., cultivation theory). This course examines external pressures that affect media content, such as the consolidation of ownership of media companies, federal regulation, and social activism.

*Prerequisite:* COMM 214 or permission of the instructor.

### **COMM 435 Public Relations Campaigns (3)**

The course builds on concepts learned in COMM 235 and COMM 335, with a primary emphasis on group work on behalf of an outside client. Students will engage in significant research elements such as focus groups and surveys, as well as budgets and timetables. Students formally present comprehensive findings and proposals (a portfolio/plan book) to the client.

*Prerequisites:* COMM 235 and COMM 335.

### **COMM 436 Crisis Communication (3)**

This course will discuss the contributing factors of organizational crises, avoiding crises, managing crises, learning from past crises, and preventing future problems. Students will learn how to critically evaluate crisis management efforts, which will help them protect themselves, their groups, and their

organizations from others' ineffective or unethical behavior.

*Prerequisite:* COMM 326 or permission of the instructor.

#### **COMM 480 Capstone in Communication (3)**

This year-long course provides communication majors with a culminating experience at the conclusion of major coursework. Students conduct research and perform critical analyses using key concepts and methodologies of the discipline. Course requirements include field internships or other forms of experiential learning.

*Prerequisites:* COMM 110/COMM 111; COMM 214; COMM 215; COMM 301; and COMM 310; or permission of the department chair.

#### **COMM 481 Capstone in Communication (3)**

This year-long course provides communication majors with a culminating experience at the conclusion of major coursework. Students conduct research and perform critical analyses using key concepts and methodologies of the discipline. Course requirements include field internships or other forms of experiential learning.

*Prerequisites:* COMM 110/COMM 111; COMM 214; COMM 215; COMM 301; and COMM 310; or permission of the department chair.

#### **COMM 482 Rhetoric and Identity (3)**

Rhetoric and Identity explores the rhetorical construction of identity by examining various forums of expression: speeches, diaries, letters, websites, etc. Students will study how various groups utilize these forums to construct, maintain, and alter identity.

*Prerequisite:* COMM 210; COMM 382 is highly recommended.

#### **COMM 495 Field Internship (1-3)**

This course provides the student with practical experience working with communication-related organizations (mass media, business, museums, chambers of commerce, government, and service-related organizations). Course may be taken more than once, but no more than three credits may be earned.

*Prerequisites:* Junior or senior standing and 2.5 GPA in communication major or minor.

#### **COMM 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. A proposal must be submitted in writing and approved by the departmental honors committee prior to registration for the course. Students will confer regularly with their tutor both on the progress of their research (in the first term) and on the drafts of their paper (in the second term). The finished paper will normally be 50 or more pages and will reflect detailed research in the field.

*Prerequisites:* Senior standing, 3.25 GPA in the communication major, and approval by the departmental honors committee.

## **Comparative Literature Courses**

#### **CPLT 200 Introduction to Comparative Literature (3)**

An introduction to the aims, concepts, and methodology of the discipline of comparative literature.

*Prerequisite:* ENGL 101 and 102; one additional literature course recommended.

#### **CPLT 390 Special Topics in Comparative Literature (3)**

Intensive comparative study of a particular subject or theme across national boundaries.

*Prerequisite:* CPLT 200

#### **CPLT 400 Comparative Literature Capstone (1)**

A course in which students revise a paper on a literary topic written for a previously approved course and turn it into a comparative literature paper. Students will most likely need and will be encouraged to do further research for the revision. The project will be supervised by a faculty member with expertise in the student's essay topic. Instead of revising an essay, students may choose to write a new essay on a topic in comparative literature. The completed essay should be 12 to 15 pages long.

*Prerequisite:* Completion of all other coursework for the minor in comparative literature and presented to the program director.

## **Computer Science Courses**

#### **CSCI 110 Computer Fluency (3)**

An introduction to computing for students in the humanities, social sciences, and business. This course provides the student with the ability to understand and use emerging technologies effectively. Topics include basic computer technology (how computers work), applications (spreadsheets, databases), Internet subjects (communications, Web browsers, file transfers) and social issues (copyrights, how changes in technology affect society, ethics).

#### **CSCI 112 Communications Technology and the Internet (3)**

An introduction to digital communications technology. Topics include networking concepts, Internet and intranet tools, protocols, and security. Also included are the infrastructure and governance of the Internet, with emphasis on personal, business, social, legal, and ethical implications. Recommended skills are keyboarding and experience with e-mail and Web browser software.

#### **CSCI 114 Electronic Publishing and Design (3)**

An investigation of electronic publishing, design theory and practice. Through the use of advanced application software skills, students will explore the tools of electronic communication, such as desktop publishing, website design, introductory graphics and Internet resources. Recommended skills are keyboarding and experience using e-mail and Web browser software.

#### **CSCI 115 Website Design (3)**

A course that introduces the theory and the best current practices of Web page design, markup and presentation. Topics include the use of XHTML for information structure and CSS for presentation and style. The course will also cover HTML standards, XHTML forms, media types, layout and positioning, tables and lists and accessibility.

#### **CSCI 120 Building Virtual Worlds (3)**

This course allows students to author on-screen movie animations and interactive

games while learning the fundamentals of object-oriented programming using a user-friendly environment. Students will learn to think algorithmically and abstractly while gaining an appreciation of the complexity of building software systems and a skill set for writing elegant code. Cross-listed with CITA 120.

### **CSCI 180 Computers, Music and Art (3)**

A course introducing the creative side of computing in the context of music, sounds, images, and other digital artifacts. Students will be exposed to media modeling and computational thinking in the liberal arts and sciences. Students will develop several digital artifacts. Cross-listed with CITA 180.

### **CSCI 199 Special Topics in Computing (3)**

A course focusing on selected topics from the beginning level of computer science. Such topics include basic networking concepts, scripting languages, and topical issues in computing. This course may be repeated for additional credit.

### **CSCI 200-Level or Above (Note)**

All computer science majors must attain an overall GPA of at least 2.00 in all computer science courses taken at the 200 level or above.

### **CSCI 210 Game Programming (3)**

A course introducing principles of game programming, including computer modeling, data visualization and animations, media transformations, and video game ethics. Students will be exposed to several game engines, a scripting language, and develop at least one game.

*Prerequisite:* CSCI 120 or CSCI 180 or permission of the instructor. Cross-listed with CITA 210.

### **CSCI 215 Website Programming (3)**

A course teaching the design and development of interactive Web pages and client-side based Web programs using Rich Internet Applications (RIAs). Students will learn how to manage elements of a Web page using the Document Object Model (DOM), create and validate forms and communicate with Web servers using current Web technologies.

### **CSCI 220 Computer Programming I (3)**

An introduction to programming and problem solving using Java. Topics include data types, variables, assignment, control structures (selection and iteration), arrays, methods, classes and an introduction to object-oriented programming. Lectures three hours per week.

*Prerequisite:* CSCI 120 or CSCI 180 or CSCI 210 or MATH 111 or permission of the department.

*Co-requisite:* CSCI 220L.

### **CSCI 220L Programming I Laboratory (1)**

This course is designed to apply the concepts being covered in CSCI 220. Exercises will be assigned each week within a structured setting. Laboratory three hours per week.

*Co-requisite or prerequisite:* CSCI 220.

### **CSCI 221 Computer Programming II (3)**

This course further develops object-oriented programming introduced in CSCI 220. Topics include file input/output, inheritance and polymorphism, exceptions, error handling and algorithm analysis. Data structures include lists, stacks and queues. Algorithms include searching and sorting. Lectures three hours per week.

*Prerequisites:* CSCI 220 and CSCI 220L.

*Co-requisite or prerequisite:* MATH 207.

### **CSCI 230 Data Structures and Algorithms (3)**

This course reviews and develops the abstract data type as a mathematical model. Data structures and algorithms are developed as concrete realizations of the objects and operations of the abstract data type. Topics include a review of basic data structures, trees and graphs and analysis of the efficiency of algorithms. Lectures three hours per week.

*Prerequisites:* CSCI 221 and MATH 207.

### **CSCI 250 Introduction to Computer Organization and Assembly Language Programming (3)**

An introduction to an assembly language and its implementation in hardware. Topics include the binary and hexadecimal numbering systems, the fetch-execute cycle, the components of the central processing unit, floating point processing, memory, the assembler, and

the linker. Programming exercises are developed in the assembly language of a commonly available processor. Lectures three hours per week.

*Prerequisites:* CSCI 220 and 220L.

*Co-requisite or prerequisite:* MATH 207.

### **CSCI 299 Special Topics in Computer Science (3)**

A course focusing on a selected topic from the intermediate level of computer science. Such topics include languages not otherwise taught in the computer science curriculum, software and hardware interfacing, system usage, and specific applications programs. This course may be repeated for additional credit.

*Prerequisites:* CSCI 220 and 220L.

### **CSCI 310 Advanced Algorithms (3)**

A course that covers algorithms, focusing on computational complexity, approximation, classification, and optimization. Algorithms covered include evolutionary and genetic algorithms, gradient descent techniques, discrete optimization, branch-and-bound, dynamic and stochastic programming, combinatorial optimization and approximation algorithms.

*Prerequisites:* CSCI 230 and MATH 207.

### **CSCI 320 Programming Language Concepts (3)**

This course introduces the formal study of programming language specifications and develops an understanding of the structure and run-time organization of imperative programming languages. Topics include data types, control structures, and procedure mechanisms and data abstraction. Lectures three hours per week.

*Prerequisites:* CSCI 221 and MATH 207.

### **CSCI 325 Functional and Logic Programming (3)**

This course introduces various approaches to declarative (non-procedural) programming languages. Topics include mathematical functions and the lambda calculus; functional programming; sentential and predicate logic; and logic programming. Lectures three hours per week.

*Prerequisites:* CSCI 221 and MATH 207.

### **CSCI 332 Database Concepts (3)**

A course that introduces the student to the basic concepts, organization and

implementation models of databases, with an emphasis on the relational model. Among the topics covered are data models, query languages, relational database design using normal forms and database programming, and information assurance and security. Problems will be assigned using a relational DBMS and SQL. Lectures three hours per week.

*Prerequisites:* CSCI 221 and MATH 207.

### **CSCI 334 Data Mining (3)**

A course covering data mining concepts, methodologies, and programming. Topics include decision tables and trees, classification and association rules, clustering, pattern analysis, and linear and statistical modeling. Additional topics may include data cleaning and warehousing and techniques for text and web mining.

*Prerequisites:* CSCI 221, MATH 207 and MATH 250.

### **CSCI 340 Operating Systems (3)**

The course will introduce operating systems principles with an emphasis on multiprogramming systems. Among the concept areas covered are real and virtual storage management, processor management, process synchronization and communication, IO management, and file management. Lectures three hours per week.

*Prerequisites:* CSCI 230, 250, and MATH 207.

### **CSCI 350 Digital Logic and Computer Organization (3)**

A course designed to introduce the student to the basic principles of digital logic design. Topics covered will include Boolean algebra and gate networks, flip-flops and logic design, the arithmetic-logic unit, memory units, input-output devices and interfacing, control units, and digital circuits. Lectures three hours per week.

*Prerequisite:* CSCI 250.

*Co-requisite or prerequisite:* MATH 307.

### **CSCI 360 Software Architecture and Design (3)**

This course covers the process of constructing software, including the structural views of software components, and their characteristics and interrelationships, at a high level of abstraction. The course also covers the

design principles that govern the purpose, structure, development, and evolution of software components. The informal laboratory component of the course uses software design tools to reinforce design processes and associated design representations. Lectures three hours per week.

*Prerequisites:* CSCI 230 and MATH 207.

*Co-requisite or prerequisite:* COMM 104.

### **CSCI 362 Software Engineering (3)**

This course examines the discipline of software engineering. It provides both a historical and contemporary view of the engineering process and methodology used by software development organizations. This course will examine the software development life cycle with particular emphasis on the pertinent roles, activities, and artifacts present at each stage of development. Lectures three hours per week.

*Prerequisites:* CSCI 221 and MATH 207.

*Co-requisite or prerequisite:* COMM 104.

### **CSCI 380 User Interface Development (3)**

Introduction to human-computer interaction and user interface development. Topics include human factors of interactive software, interactive styles, design principles and considerations, development methods and tools, interface quality, and evaluation methods. Stresses the importance of good interfaces and the relationship of user interface design to human-computer interaction. Lectures three hours per week.

*Prerequisites:* CSCI 221 and MATH 207 or permission of the instructor.

### **CSCI 392 Seminar on Computing and Society**

A seminar course to prepare majors for careers in CS by discussing and studying professional, ethical, legal, and social issues and responsibilities in computing. Local and global impact of computing on individuals, organizations, and society will also be addressed. Oral presentations and written work will be required.

*Prerequisite:* CSCI 221.

### **CSCI 397 Research Experience in Computer Science (0)**

A student works under faculty supervision to learn a research method, to explore possible research topics, or to continue an ongoing study. The faculty member helps the student to determine the course goals and objectives, and supervises the execution of the project. The student will provide a written report to the faculty at the end of the semester. Students will receive a grade of "S" (satisfactory) or "U" (unsatisfactory) for the course.

*Prerequisite:* Only majors may take a Zero Credit Research course. Permission of the instructor and approval of the department chair.

### **CSCI 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing plus permission of the tutor and the department chair.

### **CSCI 410 Automata and Formal Languages (3)**

Topics to include finite automata and regular expressions, pushdown automata and context-free grammars, the Chomsky hierarchy, Turing machines, undecidability and computational complexity. Lectures three hours per week.

*Prerequisite:* MATH 307.

### **CSCI 420 Principles of Compiler Design (3)**

A course in the formal treatment of programming language translation and compiler design concepts. Topics include scanners, parsers, and translation. Lectures three hours per week.

*Prerequisites:* CSCI 230, 320 and MATH 307.

### **CSCI 432 Concepts of Database Implementation (3)**

A course to study aspects of the implementation of some of the concepts from CSCI 332. Topics include file organization on secondary storage devices, buffer management, B-trees, hash tables, join algorithms and query from an advanced standpoint: device management, physical database design, query processing, and optimization. Lectures three hours per week.

*Prerequisites:* CSCI 332 and MATH 307.

### **CSCI 440 Computer Networks (3)**

An introduction to networking theory and practice. Topics include transmission media and modulation; error detection; protocols – particularly TCP/IP; packet switching and circuit switching; physical, data link, network, transport, and application layers; LANs and WANs; network topologies; internetworking and the Internet; queuing theory and mathematical analysis of networks.

*Prerequisites:* CSCI 340, MATH 250, and MATH 307.

### **CSCI 450 Architecture of Advanced Computer Systems (3)**

A course designed to introduce the student to the basic principles behind the architecture of high-speed computer systems. Topics to be covered include performance and cost measures for computer systems, memory-hierarchy design, pipeline techniques, vector processor architectures, and parallel algorithms. Lectures three hours per week.

*Prerequisite:* CSCI 340 or CSCI 350.

### **CSCI 462 Software Engineering Practicum (3)**

This course provides hands-on experience in the practice of group-based software development. Student teams utilize development tools and techniques to implement software solutions to moderately complex problems. This project-based component provides a framework in which students gain both understanding and insight into the application of software engineering principles. Lectures three hours per week.

*Prerequisites:* CSCI 230 and either CSCI 360 or 362.

*Co-requisite or prerequisite:* COMM 104.

### **CSCI 470 Principles of Artificial Intelligence (3)**

A course introducing fundamental techniques for artificial intelligence. Among topics covered are heuristic search, knowledge representation, intelligent agents, reasoning, neural networks, genetic algorithms, and artificial intelligence programming. Additional topics may include Bayesian networks, natural language processing, machine learning, rule-based systems, robotics, and discovery informatics.

*Prerequisites:* CSCI 230 and MATH 307.

### **CSCI 480 Principles of Computer Graphics (3)**

An introduction to the fundamental principles of computer graphics. Among the topics covered are graphics hardware, 2-D graphics (including line and circle drawing, transformations, windows, viewports and clipping), 3-D perspective graphics, back-face removal, one or more hidden-surface graphics and simple light models. Lectures three hours per week.

*Prerequisites:* CSCI 230, MATH 220, and MATH 307.

### **CSCI 490 Special Topics (3)**

An intensive investigation of an area of current interest in computer science. Examples of special topics include: Image Processing; Systems Programming; Computability; Design Patterns. Lectures three hours per week.

*Prerequisite:* Permission of the instructor.

### **CSCI 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## **Computing in the Arts Courses**

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### **CITA 120 Building Virtual Worlds (3)**

This course allows students to author on-screen movie animations and interactive games while learning the fundamentals of object-oriented programming using a user-friendly environment. Students will learn to think algorithmically and abstractly while gaining an appreciation of the complexity of building software systems and a skill set for writing elegant code. Cross-listed with CSCI 120.

### **CITA 180 Computers, Music and Art (3)**

A course introducing the creative side of computing in the context of music, sounds, images, and other digital artifacts. Students will be exposed to

media modeling and computational thinking in the liberal arts and sciences. Students will develop several digital artifacts. Cross-listed with CSCI 180.

### **CITA 210 Game Programming (3)**

A course introducing principles of game programming, including computer modeling, data visualization and animations, media transformations, and video game ethics. Students will be exposed to several game engines, a scripting language, and develop at least one game.

*Prerequisite:* CSCI 120 or CSCI 180 or permission of the instructor. Cross-listed with CSCI 210.

### **CITA 295 CITA Seminar (1)**

A seminar course to develop through readings, discussion, and writing exercises the integration of themes developed across computing in the arts. Students will benefit from participating with junior and senior majors in a group seminar in preparation for their own enrollment in CITA 495. Open to CITA majors only.

*Prerequisites:* CSCI/CITA 210, CSCI 221, 9 hours in an art concentration.

### **CITA 495 CITA Capstone Seminar (3)**

A capstone course to provide a synthesizing experience for CITA majors across all concentrations. Students will read and analyze the latest research in the expanding field of computing in the arts, and will develop individual research projects integrating their skills and knowledge for both written and oral presentation. Open only to CITA majors with senior standing.

*Prerequisite:* CITA 295

## **Crime, Law, and Society Courses**

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### **CRLS 200 Crime, Law and Society Field Experience (1-3)**

This course will supplement the classroom study of crime, law and society by providing students with tangible experience in the field and with those who are the subject of our study, including prisoners, lawyers and/or victims of crime. Field experiences will take place in prison, courtrooms or other

settings that allow for the practical application of concepts, theories and practices discussed in the assigned readings and other course materials for the co-requisite class. Instruction will typically follow a seminar format where students are required to actively participate in class discussion.

*Prerequisite:* Students must have the prerequisites for the above co-requisite class or receive permission from the instructor.

*Co-requisites:* CRLS 200 will sometimes be a corequisite to courses that are relevant to the study of crime, law and society including but not limited to POLS 220, POLS 306, POLS 342, POLS 344, POLS 352, POLS 353, POLS 354, POLS 383, PSYC 307, PSYC 310, PSYC 388, SOCY 331, SOCY 341, SOCY 342, SOCY 348, SOCY 361 and CRLS 300.

*Note:* CRLS 200 will not be offered as a co-requisite every time the above courses are offered. Whether CRLS 200 is offered as a required or option co-requisite to the above classes will be determined by the instructor. In some cases, students will have the option of enrolling in CRLS 200 as a co-requisite to one of the above classes but students enrolled in CRLS 200 will be expected to enroll in the co-requisite class.

### **CRLS 300 Special Topics in Crime, Law, and Society (3)**

An examination of a topic in the area of crime, law, and society for which no regular course is offered. The course may be repeated for credit if the content is different. Specific content will be listed when the course is offered.

### **CRLS 310 Policing in a Modern Society**

This course exposes students to the institutions, activities, and legal issues that are part of a law enforcement organization in contemporary America. Students will explore the functions of the police in society to understand how society's demands and expectations affect police operations, and how police operations affect society.

### **CRLS 311 Community Policing: Issues and Strategies**

In this course, students will learn about the competing definitions and perspectives of community policing and how it influences police operations and policycommunity relations. Students will also examine research on the effectiveness of community policing in

preventing crime and enhancing community responses to criminal activity.

### **CRLS 400 Internship (1-6)**

As the ending experience in the minor, the internship challenges students to apply knowledge learned in the classroom to a field experience with an organization that works with the victims and/or perpetrators of crime. The internship involves 120 hours of work in an organization, scheduled meetings with the program coordinator and a significant writing project.

*Prerequisites:* Junior standing, SOCY 341, POLS 220, and permission of the program director. An internship should be arranged the semester before the student plans to complete it. Internships should be completed during the fall or spring semesters. Exceptions may be made for summer internships in extraordinary circumstances. See the program website ([www.cofc.edu/criminaljustice/internship.s.htm](http://www.cofc.edu/criminaljustice/internship.s.htm)) or speak with the program director to learn more about the requirements for summer internships and to obtain the summer internship application.

### **CRLS 401 Crime, Law and Society Advanced Field Experience (1-6)**

This course will study crime, law and society by meeting in the field rather than on campus in the traditional classroom setting. As a result, the class will meet in a prison, a courtroom or other setting relevant to the study of crime and law. The setting for the class will vary depending on the specific crime and/or law-related topic being examined.

*Prerequisite:* By permission of instructor - please see the Director of the Crime, Law and Society Program for additional information

*Note:* This class will not be offered on a regular basis.

## **Decision Science Courses**

### **DSCI 232 Business Statistics (3)**

Advanced statistical analysis with applications in business and economics utilizing relevant computer software. Topics include business applications in

descriptive and inferential statistics emphasizing selected topics such as simple and multiple regression, analysis of variance, time series analysis and non-parametric techniques.

*Prerequisite:* MATH 104 or 250.

### **HONS 214 Honors Business Statistics (3)**

Advanced statistical analysis with applications in business and economics utilizing relevant computer software. Topics include business applications in descriptive and inferential statistics emphasizing such topics as simple and multiple regression, analysis of variance, hypothesis testing, quality control, decision making using software and non-parametric techniques.

### **DSCI 260 Special Topics in Decision Science (1-3)**

An in-depth treatment of a current area of special concern within the field of decision science.

*Note:* Junior standing is a prerequisite for all business 300- and 400-level courses. It is assumed that the student is computer literate.

### **DSCI 304 Production and Operations Management (3)**

The planning and control of production and service operations with emphasis on Total Quality Management, demand forecasting, design of production systems, aggregate planning, and inventory management. Additional topics will include just-in-time production, cellular manufacturing, flexible manufacturing systems, robotics, computer-aided design and manufacturing and quality circles. Students will use appropriate computer software to gain experience with several decision techniques.

*Prerequisites:* Junior standing; DSCI 232, MGMT 301, MATH 104 or 250, MATH 105 or 120.

### **DSCI 306 Introduction to Electronic Commerce (3)**

An introduction to the theory and practice of doing business over the Internet and World Wide Web. Topical coverage will include an overview of the economic foundations, infrastructure, technologies, and business strategies of E-Commerce.

*Prerequisites:* MATH 104; ACCT 203, 204; DSCI 232; DSCI 320, junior or senior standing.

**DSCI 314 Global Operations & Technology Management (3)**

This course teaches students how to use new technologies to manage the business enterprise and the global supply chain for competitive advantage. The course integrates the control of manufacturing and service operations utilizing emerging technologies to optimize business process and supply chains. Students use a variety of software packages to solve business problems. In addition, the latest theories of technology and knowledge management are used to place technological innovation in a strategic and global perspective.

*Prerequisites:* Junior standing; DSCI 232, MGMT 301, MATH 104 or 250, MATH 105 or 120.

**DSCI 320 Management Information Systems (3)**

Survey of transaction processing systems, management information systems, and decision support systems. Introduction of systems analysis concepts and methodologies for information system design and development. System development projects will be required.

*Prerequisites:* Junior standing; ACCT 203, 204, DSCI 232, MATH 104 or 250.

**DSCI 360 Special Topics in Decision Science (1-3)**

In-depth treatment of current areas of special concern within the field of decision science. A maximum of six hours of special topics courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; other prerequisites depending on topic.

**DSCI 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week). The student must take the initiative in seeking a tutor to help in the design and supervision of the project. A maximum of six hours of tutorial courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; permission of the tutor and the chair.

**HONS 394 Honors Research Methods (3)**

In this course, students will use qualitative and quantitative methods in research. By the end of this course, students will be able to apply research

methods for (1) understanding and articulating assumptions about the business world; and (2) helping to develop basic knowledge of the principal techniques in research.

*Prerequisites:* HONS 390 and junior standing.

**DSCI 406 Quantitative Methods and Decision Making (3)**

Students are introduced to quantitative modeling techniques and to the role quantitative models play in the decision-making process. Emphasis will be placed on the understanding of tools necessary to qualify decision making, with extensive use of computer-assisted solution methods.

*Prerequisites:* Junior standing; DSCI 232; MATH 104, 105.

**DSCI 420 Independent Study (1-3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed. A maximum of six hours of independent study courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; written agreement with instructor and chair.

**DSCI 444 Decision Sciences Internship (3)**

A supplemental source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved agency and the school. The learning experience will be guided by a learning contracting outlining specific work and academic components. A maximum of three (3) hours of internship credit will be awarded.

*Prerequisites:* Senior standing and declared major in the School of Business and Economics.

**DSCI 499 Bachelor's Essay (6)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the school. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be

submitted in writing and approved by the school prior to registration for the course.

*Prerequisite:* Senior standing.

## Discovery Informatics Courses

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**DISC 101 Introduction to Discovery Informatics (3)**

Introduction to knowledge discovery techniques, emphasizing computer based tools for the analysis of large data sets. Topics include the discovery informatics process and inductive data-driven modeling. Students will have hands-on experience with Online Analytical Processing (OLAP) and data mining software and complete a project.

**DISC 210 Dataset Organization and Management (3)**

A course to introduce the structure of databases and the management of datasets for information extraction. Concepts include the relational and entityrelationship models, and local and distributed storage and access. The preparation and management of datasets for analysis is covered, and includes data cleaning, reorganization and security.

**DISC 397 Research Experience in Discovery Informatics (0)**

A student works under faculty supervision to learn a research method, to explore possible research topics, or to continue an ongoing study. The faculty member helps the student to determine the course goals and objectives, and supervises the execution of the project. The student will provide a written report to the faculty at the end of the semester. Students will receive a grade of "S" (satisfactory) or "U" (unsatisfactory) for the course.

*Prerequisites:* Only majors may take a Zero Credit Research course. Permission of the instructor and approval of the department chair.

**DISC 495 Discovery Informatics Capstone (3)**

A capstone course for the application of knowledge discovery and data mining tools and techniques to large data repositories or data streams. This projectbased course provides students with a framework in which students gain

both understanding and insight into the application of knowledge discovery tools and principles on data within the student's cognate area. This course is intended only for discovery informatics majors.

*Prerequisites:* DISC 210, CSCI 470, and MATH 441.

## Economics Courses

### ECON 101 Introduction to Economics (3)

This course covers the history of the development of present-day economic society, as well as considers issues and problems facing the economy, including policies directed at affecting inflation, unemployment and recession, and international trade. Students who have completed ECON 200 or 201 may not subsequently receive credit for ECON 101. However, students may receive credit for ECON 101 before taking ECON 200 and 201. This course satisfies three hours of the social science requirement.

### ECON 200 Principles of Microeconomics (3)

The structure of the market is presented, including product and factor pricing, allocation of resources and distribution of income, market equilibrium analysis, and analysis of domestic and international problems and policies.

### ECON 201 Principles of Macroeconomics (3)

The foundation of aggregate economic analysis is presented, including identification of basic social goals, money and credit systems, and theories of national income, employment and economic growth, and international interdependence.

*Prerequisite:* ECON 200.

### HONS 200 Honors Economics I (3)

Macroeconomics and microeconomics courses that introduce the principles of economics and the history of the development of these principles.

*Prerequisite:* MATH 120 or its equivalent.

### HONS 211 Honors Economics II (3)

Macroeconomics and microeconomics courses that introduce the principles of

economics and the history of the development of these principles.

*Prerequisite:* HONS 200 or its equivalent

### ECON 260 Special Topics in Economics (3)

This course is intended for those students who are not business, international business, accounting, or economics majors and who have minimal training in economics. The course is designed for second semester freshmen and sophomores and will focus on various areas in economics and political economy. This course will not count towards fulfilling the requirements for a business, international business, accounting, or economics degree. In the School of Business and Economics, it will count as a general education elective.

*Note:* ECON 200 and 201 and junior standing are prerequisites for all 300- and 400-level economics courses. All 300- and 400-level economics courses assume that the student is computer-literate.

### ECON 303 Economics of Transportation and Geography (3)

This is a combination of two traditional course offerings intended to provide the economic theory, conceptual foundations, and practical understanding of economics as applied to both transportation and geography.

*Prerequisites:* Junior standing; ECON 200, 201.

### ECON 304 Labor Economics (3)

This course examines the workings and outcomes of the market for labor. It is primarily concerned with the behavior of employers and employees in response to the general incentives of wages, prices, profits, and non-pecuniary aspects of the employment relationship. Topics include the supply and demand for labor, investments in human capital, unions, and collective bargaining, and governmental policies affecting labor.

*Prerequisites:* Junior standing; ECON 200, 201; MATH 105 or 120, or permission of the instructor. DSCI 232 is recommended.

### ECON 305 Money & Financial Institutions (3)

An introduction to the operations, mechanics, and structure of the U.S. financial system, with emphasis on its

institutions, markets, and instruments, as well as the Federal Reserve System and monetary policy and the effects of policy on the economy and on financial institutions.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120 or permission of the instructor.

### ECON 306 Monetary Policy and Theory (3)

A detailed discussion of Federal Reserve policy tools, controversies in monetary policy, proposed reforms and a comprehensive overview of monetary theory.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120 or permission of the instructor.

### ECON 307 Urban Economics (3)

An examination of the economics of spatial organization focusing on the location of economic activity and the growth of cities and regions. This course will provide a theoretical and empirical basis for analyzing contemporary urban issues.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120 or permission of the instructor.

### ECON 308 Evolution of Economic Doctrines (3)

A study of the principal contributions to economic theory and method and the relationship of these contributions to their time and to each other.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120 or permission of the instructor.

### ECON 310 International Economics (3)

An approach to the problems of international economic interdependence with special attention given to trade, protectionism, trade policy for developing countries, international investment, the balance of payments, foreign exchange, exchange rate systems, and international economic policy.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120 or permission of the instructor.

### ECON 311 Environmental Economics (3)

This course deals with the institution of property rights and how the absence of property rights may hinder the proper allocation of society's scarce resources

and thereby affect economic efficiency. The course also examines how resources held in the public domain are allocated and ways of how this allocation might be made more efficient.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120 or permission of the instructor.

### **ECON 316 Evolution of the U. S. Economy (3)**

The growth and development of the U.S. economy from the colonial period to the present are analyzed, with emphasis on the reliance of the changing cultural context to the process of economic development and with emphasis on the institutional framework of economic development.

*Prerequisites:* Junior standing; ECON 200, 201, or permission of the instructor.

### **ECON 317 Microeconomic Analysis (3)**

A study of the analytical techniques used in investigating the determination of product and factor prices under different market structures, to include analysis of consumer behavior, production theory, market structures and factor pricing.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120.

### **ECON 318 Macroeconomic Analysis (3)**

A study of classical, Keynesian, and post-Keynesian economics involving the issues of consumption, monetary and fiscal policy, growth, interest and liquidity.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120.

### **ECON 320 Managerial Economics (3)**

The application of economic principles relating to cost, revenue, profit and competition that aid business decision making and policy formulation.

*Prerequisites:* Junior standing; ECON 200, 201, DSCI 232, MATH 104 or 250, MATH 105 or 120, or permission of the instructor.

### **ECON 325 Economics for Development (3)**

An analysis of international poverty and inequality, dualistic development, the employment problem, mobilization of domestic resources, mobilization of foreign resources, human-resource development, agricultural strategy, industrialization strategy, trade strategy,

development planning, and policy making.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120, or permission of the instructor.

### **ECON 330 Comparative Economic Systems (3)**

An analysis and appraisal of the theories and practices underlying economic systems. Consideration is given to capitalist, socialist, and communist models and economies.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120, or permission of the instructor.

### **ECON 340 Public Finance (3)**

A study of the economics of public goods theory, externalities, and public choice theory. Students will examine the cost and benefit analysis of taxation and expenditures. Public decision making at all levels of government will be examined, and the intervention of government into the market economy.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120; or permission of the instructor.

### **ECON 350 Financial Markets in Us Economy (3)**

An introduction to the operation of financial markets in the U.S. economy, emphasizing market instruments and the use of these instruments by various financial institutions and market participants. The final week of the course is spent attending seminars at various money-center financial institutions and markets.

*Prerequisites:* Junior standing; ECON 200, 201, ECON 305 is recommended. Permission of the instructor is required.

### **ECON 360 Special Topics in Economics (3)**

An in-depth treatment of a current area of special concern within the field of economics.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 105 or 120, or permission of the instructor.

### **ECON 399 Tutorial (up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing, plus permission of the tutor and the department chair.

### **ECON 400 Senior Seminar in Economics (3)**

A seminar on particular problems or questions in economic policy. Topics will vary. Designed to be a capstone course, this seminar is required of all economics majors. The tools of economic analysis developed in the prerequisite courses will be used to analyze particular economic problems.

*Prerequisites:* Senior standing and the successful completion of an entrance examination administered by the economics faculty; ECON 200, 201, 317, 318; DSCI 232; MATH 104 or 250, 105 or 120; or permission of the instructor.

### **ECON 419 Introduction to Econometrics and Forecasting (3)**

An introductory survey of the use of statistical and mathematical methods in economic analysis.

*Prerequisites:* Junior standing; ECON 200, 201, MATH 104 or 250, DSCI 232, or permission of the instructor.

### **ECON 420 Independent Study (1-3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed.

*Prerequisites:* Junior standing; written agreement of the instructor and permission of the department chair.

### **ECON 444 Economics Internship (3)**

A supplemental source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved agency and the school. The learning experience will be guided by a learning contract outlining specific work and academic components.

*Prerequisites:* Senior standing; declared major or minor in the School of Business and Economics; acceptance to an internship program or site; interview with and approval of the instructor. See the departmental internship coordinator for more details.

### **ECON 499 Bachelor's Essay (6)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the school. The student must take the

initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the Department of Economics and Finance prior to registration for the course.

*Prerequisites:* Senior standing and department approval.

## Elementary and Early Childhood Education Courses

### EDEE 323 The Development of Mathematical Thinking (3)

This course focuses on the factual knowledge, procedural proficiency, and conceptual understanding related to mathematics content and process standards. The parallels of learner development and the progressive nature of mathematics are explored. Teacher candidates will study the elements necessary to achieve high-quality mathematics education.

### EDEE 325 Language and Literacy Development (3)

This course explores the nature of language, its functions within language settings and its history of development within cultures and individuals. The impact of family, community, and dialects upon communication will be investigated. The critical role of story in helping children to communicate effectively is a component of this program.

### EDEE 327 Learner Development and the Context of Learning (3)

This course provides candidates an opportunity to develop observational skills in three settings: early childhood, elementary and middle school. Through the guided field experience, candidates examine how curriculum, instruction and the learning context change as children and youth develop. The course is linked to the other courses in the semester.

### EDEE 363 Introduction to Early Childhood Education (3)

This course provides an introduction to early childhood education to include historical and theoretical foundations, characteristics of children and their

families, multiple influences of development, and purposes and uses of assessment.

*Prerequisites:* Courses required by department in first semester of proposed major (EDFS 326, EDFS 303, EDEE 323, EDEE 325, and EDEE 327).

### EDEE 365 Teaching Mathematics: Pre K - Grade 3 (3)

This course focuses on the knowledge, dispositions, and performances necessary for quality early childhood mathematics education. Emphasis is on developmentally appropriate instructional strategies linked to the grades P–3 content and process standards. Active learning, lesson planning, ongoing and worthwhile assessment and informed teacher decision making are major components.

### EDEE 366 Teaching Mathematics: Grades 2-8 (3)

This course focuses on the knowledge, dispositions and performances necessary for quality elementary and middle school mathematics education. Emphasis is on developmentally appropriate instructional strategies linked to the grades 2–8 content and process standards. Active learning, lesson planning, ongoing and worthwhile assessment and informed teacher decision making are major components.

### EDEE 367 Teaching Science: Pre K - Grade 3 (3)

This course is designed for the study and practice of teaching methods and materials for science at the early childhood school levels, grades P–3. Emphasis is placed on concept development through questioning techniques, critical thinking, multimedia/technology and inquiry teaching to meet group and individual needs.

### EDEE 368 Teaching Science: Grades 2-8 (3)

This course is designed for the study and practice of teaching methods and materials for science at the elementary and middle school levels, grades 2–8. Emphasis is placed on concept development through questioning techniques, critical thinking, multimedia/technology and inquiry teaching to meet group and individual needs.

### EDEE 370 Teaching Health & Physical Education (3)

A course designed to develop instructional techniques as related to health and physical education, movement education theory and the integration of early childhood, elementary and middle school studies through movement experiences; included is an examination of health concepts and health programs.

### EDEE 371 Teaching Social Studies & Humanities: Pre K - Grade 3 (3)

This course introduces students to all facets of the P–3 social studies experiences needed to guide early childhood school students on the path to responsible citizenship. The course focuses on the highly integrative and multidisciplinary nature of the social studies. Particular emphasis is placed on the integration of history, geography and civics education with other areas of the curriculum.

### EDEE 373 Teaching Social Studies & Humanities: Grade 2-8 (3)

This course introduces students to all facets of the 2–8 social studies experiences needed to guide elementary and middle school students on the path to responsible citizenship. The course focuses on the highly integrative and multidisciplinary nature of the social studies. Particular emphasis is placed on the integration of history, geography and civics education with other areas of the curriculum.

### EDEE 374 Elementary Education: Balancing Students and Curriculum (3)

This course balances an understanding of upper elementary students (grades 2–6) with the curricular expectations for these grades. Special attention is paid to the importance of planning, assessment and classroom environment in promoting student accomplishment, belonging, and engagement.

*Prerequisites:* Admission into the teacher education program and successful completion of EDEE 327.

### EDEE 375 Reading/Learning Strategies: Pre K - Grade 3 (3)

This course provides a study of reading, writing and communication in grades P–3. It emphasizes basic literacy, content area literacy, factors affecting those processes, and principles and skills

involved in the development of reading and writing in grades P–3.

**EDEE 377 Reading/Learning Strategies: Grades 2-8 (3)**

This course provides a study of reading, writing and communication in grades 2–8. It emphasizes basic literacy, content area literacy, factors affecting those processes, and principles and skills involved in the development of reading and writing in grades 2–8.

**EDEE 380 Application of Curriculum & Instruction: Pre-K - Grade 3 (3)**

This course provides candidates seeking early childhood certification (P–3) an opportunity to observe how teachers teach various subject areas to early childhood students. Candidates teach individual students, small groups of students and the whole class. Candidates plan for the effective use of curriculum, instruction and assessment to use standards to meet the developmental needs of early childhood students.

**EDEE 382 Application of Curriculum & Instruction: Grades 2-6 (3)**

This course provides candidates seeking elementary certification (grades 2–6) an opportunity to observe how teachers teach various subject areas to elementary students. Candidates teach individual students, small groups of students and the whole class. Candidates plan for the effective use of curriculum, instruction and assessment to use standards to meet the developmental needs of elementary grades students.

**EDEE 384 Application of Curriculum & Instruction: Grades 5-8 (3)**

This course provides candidates seeking middle school certification (grades 5–8) an opportunity to observe how teachers teach various subject areas to early adolescent students. Candidates teach individual students, small groups of students and the whole class. Candidates plan for the effective use of curriculum, instruction and assessment to use standards to meet the developmental needs of middle school students.

**EDEE 403 Visual and Performing Arts (3)**

Candidates examine basic arts concepts and skills, factual or contextual learning about the arts in history and culture, and higher order or critical thinking skills relating to dance, drama/theatre, music,

and the visual arts. The course consists of study and experiences in each art form through four curricular components: aesthetic perception, creative expression, historical and cultural heritage and aesthetic valuing.

**EDEE 407 Creating Learning Environments (3)**

This course focuses on how teachers create collaborative and inclusive communities of learners. Supportive, preventative and corrective teaching practices and management strategies are emphasized.

**EDEE 409 Meeting Needs of Diverse Learners (3)**

The course examines current research on differentiated instructional strategies. Candidates describe historical and legal factors impacting inclusion. They develop collaborative skills and identify their role on multidisciplinary teams, and they promote school/family partnerships. They identify learning characteristics of special needs students and develop appropriate instructional strategies.

**EDEE 415 Curriculum, Instruction, and Assessment: Pre K - Grade 3 (3)**

This course provides candidates an opportunity to teach multiple subjects to diverse early childhood learners. Candidates also examine the early childhood teachers' role in establishing and maintaining a positive learning environment in the classroom, and they learn to assess their own performance and that of other teachers using the South Carolina teacher evaluation instrument, ADEPT.

*Prerequisite:* EDEE 380.

**EDEE 416 Curriculum, Instruction, and Assessment: Grades 2-6 (3)**

This course provides candidates an opportunity to teach their concentration to diverse elementary school learners (grades 2–6). Candidates also examine the elementary school teachers' role in establishing and maintaining a positive learning environment in the classroom, and they learn to assess their own performance and that of other teachers using the South Carolina teacher evaluation instrument, ADEPT.

**EDEE 417 Curriculum, Instruction, and Assessment: Grades 5-8 (3)**

This course provides candidates an opportunity to teach their concentration

to diverse middle school learners (grades 5–8). Candidates also examine the middle school teachers' role in establishing and maintaining a positive learning environment in the classroom, and they learn to assess their own performance and that of other teachers using the South Carolina teacher evaluation instrument, ADEPT.

**EDEE 455 Early Childhood Clinical Practice (3)**

In this course, candidates engage in full-time teaching in a P–3 grade classroom. They assume all of the responsibilities of a professional teacher. Under the supervision of a cooperating teacher and a college supervisor, candidates complete a long-range plan, take over full-time teaching and non-instructional responsibilities and participate in professional activities outside of the classroom and in weekly seminars.

*Prerequisite:* EDEE 415.

**EDEE 457 Elementary Grades Clinical Practice (3)**

In this course candidates engage in full-time teaching in a 2–6 grade classroom. They assume all of the responsibilities of a professional teacher. Under the supervision of a cooperating teacher and a college supervisor, candidates complete a long-range plan, take over full-time teaching and non-instructional responsibilities and participate in professional activities outside of the classroom and in weekly seminars.

*Prerequisite:* EDEE 416.

**EDEE 459 Middle Grades Clinical Practice (3)**

In this course candidates engage in full-time teaching in a 5–8 grade classroom. They assume all of the responsibilities of a professional teacher. Under the supervision of a cooperating teacher and a college supervisor, candidates complete a long-range plan, take over full-time teaching and non-instructional responsibilities and participate in professional activities outside of the classroom and in weekly seminars.

*Prerequisite:* EDEE 417.

**EDEE 465 Independent Study in Education (3)**

A course in which students who have taken an appropriate sequence of preparatory courses in education may do an individually supervised study of some topic of the student's interest. Each project must be done in consultation with

a department member qualified to guide and evaluate work.

### **EDEE 515 Middle School Organization and Curriculum (3)**

An overview of the middle school concept, including a study of the historical and philosophical antecedents, the conflicting perceptions of middle school, definitions of middle school and middle level concepts, characteristics of the emerging adolescent and related program implications, change factors involved in conversion to the middle school concept, evaluation methods for determining middle school effectiveness and projections on the future of the middle school movement.

*Prerequisite:* EDEE 327.

### **EDEE 580 Special Topics in Education (1-4)**

Study of a particular subject or theme in educational methods of teaching or content. Specific topics will be listed with the course title when offered, e.g., Special Topics in Education: Marine Science for Elementary Teachers.

## **English Courses**

### **ENGL 101 Composition (3)**

An introduction to the practices necessary for successful college writing. Emphases on reading and writing for analysis and discovery; crafting effective arguments within academic contexts; developing rhetorical knowledge; writing as a process that includes invention, drafting, revising and editing; and researching, evaluating and documenting appropriate supporting materials for college-level essays. Readings selected by the instructor.

### **ENGL 102 Composition and Literature (3)**

Continued study of practices necessary for successful college writing as outlined for English 101. Additional emphasis on critical reading of and writing in response to imaginative literature. Readings selected by instructor.

### **ENGL 110 Introduction to Academic Writing (4)**

An introduction to the practices necessary for successful college writing; reading and analyzing college level texts; writing in a process that includes invention, drafting, revising, and editing; and

researching, evaluating and documenting appropriate supporting materials for college-level essays. Taken during student's first year.

*Note:* ENGL 110 (or its equivalent) or HONS 110 are prerequisites for all other English courses.

### **ENGL 190 Introductory Special Topics (3)**

This introductory course for non-majors examines selected topics in literature, based on the interests of both students and faculty. It is designed to supplement course offerings in the English curriculum.

*Prerequisite:* ENGL 110 or equivalent, or HONS 110.

### **ENGL 191 Introduction to Jewish-American Literature (3)**

An introduction to Jewish-American literature from the 20th century to the present. Cross listed with JWST 245.

### **ENGL 201 British Literature to 1800 (3)**

A study of major works of representative writers from the Medieval period through the 18th century. Emphasis on close reading and literary history.

*Prerequisite:* ENGL 110 or equivalent, or HONS 110.

### **ENGL 202 British Literature since 1800 (3)**

A study of major works of representative writers from the Romantic period to the present. Emphasis on close reading and literary history.

*Prerequisite:* ENGL 110 or equivalent, or HONS 110.

### **ENGL 203 Survey of European Literature I (3)**

A survey of the literature of Europe in English translation (exclusive of British literature) from ancient Greece through the Renaissance.

### **ENGL 204 Survey of European Literature II (3)**

A survey of the literature of Europe in English translation (exclusive of British literature) from neoclassicism through the 20th century.

### **ENGL 207 Survey of American Literature to the Present (3)**

A study of representative writers from the colonial period to the present. Emphasis on close reading and literary history.

### **ENGL 212 The Cinema: History and Criticism (3)**

An introduction to the critical appreciation and history of the motion picture, with special emphasis upon the place of the film within the liberal arts, dealing generally with the types and forms of the feature film, its background and development and aiming to create an increased critical awareness of the basic elements of the filmmaker's art.

### **ENGL 215 Interdisciplinary Composition (3)**

A course in writing strategies and skills, suitable for non-majors. Topics are interdisciplinary, with application to business and technical writing, the social and natural sciences and the humanities.

### **ENGL 216 Introduction to African American Literature (3)**

This class for non-majors introduces students to major African American writers from the 18th century to the present day.

### **ENGL 220 Poetry Writing I (3)**

A workshop examining the careful use of language in poetry, designed to help students gain insight into their own writing and the craftsmanship of other poets (open to beginners and experienced writers).

### **ENGL 222 Writing Song Lyrics (3)**

A course in the elements of lyric writing. Topics include "the Creative Process," "the Image," "Lyric Structure," "Rhyme and Meter" and "Less Known Figures of Speech for Interesting Turns of Phrase." The goal is for the student to become a better song lyric writer and a more discriminating listener of song lyrics. NOTE: The student should know and play several songs. Reading music is not a requirement, but the student should be able to play basic chords on a piano or guitar.

### **ENGL 223 Fiction Writing I (3)**

A workshop for new writers wishing to establish and enhance basic skills in the writing of short fiction, point-of-view, characterization, dialogue, setting, etc. Equal attention will be given to stories turned in for critique and to the development of the student's critical skills.

**ENGL 226 Survey of World Literature (3)**

A study of representative texts from non-Anglophone cultures from the ancient world to the present.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 233 Survey of Non-Western Twentieth Century Literature (3)**

An introduction to selected 20th-century masterpieces of non-Western literature in English.

**ENGL 234 Survey of Third-World Masterpieces (3)**

An introduction to selected third-world literary masterpieces in English by Caribbean, Arabic-speaking and Latin American authors dealing with issues of global concern such as political and religious oppression, hunger, disease, war and economic deprivation.

**ENGL 240 Science Fiction (3)**

An introduction to the main themes and issues of science fiction, including both "hard" or technologically oriented science fiction (time problems, robots, alien life forms, clones) and "soft" or socially oriented science fiction (conditioning, new forms of family and government, questions of gender and sexuality).

**ENGL 290 Special Topics (3, Repeatable up to 12)**

An examination of a selected topic, designed to supplement or to investigate more fully offerings in the English curriculum. Choice of topics will reflect both student and faculty interest.

*Note: For English majors, ENGL 201, 202, and 207 are prerequisites for all courses at or above the 300 level.*

**ENGL 299 Introduction to English Studies (3)**

An introduction to the theories and practices motivating English studies past and present, with an emphasis on the methods, subjects, and rationales of textual analysis. This writing intensive course also fosters the critical reading, rhetorical, and research skills underpinning successful writing in English studies.

**ENGL 301 Shakespeare: The Early Period (3)****ENGL 302 Shakespeare: Later Period (3)****ENGL 303 Modern English Grammar (3)**

A study of grammatical analysis, with emphasis upon transformational-generative grammar.

**ENGL 304 Chaucer (3)**

Selections from his major poetical works in the original.

**ENGL 305 Advanced Composition (3)**

A study of the theory and principles of composition and the application of these principles in the student's own writing.

**ENGL 306 Milton (3)**

The poetry and selected prose of John Milton.

**ENGL 307 Introduction to Old English (3)**

An introduction to the Old English language with selected readings of prose and poetry from the seventh through the 11th century including the epic poem *Beowulf* in translation.

**ENGL 308 Spenser (3)**

A reading of selections from the minor poems and *The Faerie Queene* complete. Emphasis will be placed on Spenser's relation to European literature as well as on his position in the English tradition.

**ENGL 309 English Language: Grammar and History (3)**

A study of the fundamental concepts of language and linguistics in relation to English past and present, through grammatical analysis and a survey of the history and development of English focused on phonology, morphology, and vocabulary.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 310 Theories of Teaching Writing (3)**

An introduction to major theories of teaching writing, with a particular focus on how these theories inform approaches toward the writing process, assignment design, and the evaluation of student writing.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 311 Middle English Literature: Non-Chaucerian (3)****ENGL 312 History of English Language (3)**

The history and development of the English language, tracing its descent from prehistoric Indo-European to

modern English, with attention especially to phonology, morphology and vocabulary.

**ENGL 313 African American Literature (3)**

A survey of African American literature from the mid- 18th century to the present.

**ENGL 314 Non-Dramatic Literature of the Renaissance (3)**

A study of poetry and prose of 16th-century Britain, with emphasis on political and ethical backgrounds and the poetry of Spenser.

**ENGL 317 The Seventeenth Century (3)**

A study of poetry and prose of 17th-century England emphasizing the works of Donne, Jonson, Herbert, Marvell, Bacon, Browne, Hobbes and Locke.

**ENGL 318 The Eighteenth Century (3)**

A study of the poetry and prose of 18th-century Britain.

**ENGL 319 Literary Criticism (3)**

Major critical approaches to literature, in theory and practice, from Aristotle to the present.

**ENGL 320 Literature for Adolescents (3)**

An introduction to the varieties of literature relevant to the adolescent, incorporating major literary genres and appropriate media.

**ENGL 321 The Romantic Period (3)**

A reading of five poets: Wordsworth, Coleridge, Byron, Shelley and Keats.

**ENGL 323 The Victorian Period (3)**

A reading of major 19th-century British poets from 1830 to 1900, including Tennyson, Browning, Arnold, and the Pre-Raphaelites, with selections from the prose of Carlyle, Mill, Ruskin, Pater and others.

**ENGL 325 Modern British Literature (3)**

A study of 20th-century British literature before World War II, including works by Conrad, Yeats, Joyce, Woolf, Eliot and Orwell.

**ENGL 326 Irish Literature (3)**

A study of the major movements and authors in Irish literature from 1798 to the present. The authors will include W.B. Yeats and James Joyce and may include Maria Edgeworth, Somerville

and Ross, Lady Gregory, John Synge, Sean O'Casey and Seamus Heaney, among others.

### **ENGL 327 The British Novel I (3)**

A study of the major British novelists of the 18th century.

### **ENGL 328 The British Novel II (3)**

A study of the major British novelists of the 19th century.

### **ENGL 334 Technical Writing (3)**

Preparation for and practice in the types of writing important to scientists, computer scientists, and engineers. Writings include abstracts, reviews, reports, professional letters and proposals. When possible, students write about subjects related to their field of interest.

### **ENGL 335 Modern Poetry (3)**

A study of the nature and development of 20th-century British and American poetry, concentrating on selected major figures such as Yeats, Eliot, Pound, Hopkins, Frost, Stevens and Williams.

### **ENGL 336 Women Writers (3)**

A study of a representative selection of women's fiction, poetry and drama, focusing on questions of women's styles, preferred genres and place in the literary tradition. Readings may vary from year to year.

### **ENGL 337 British Drama to 1642 (3)**

A study of selected plays from the medieval beginnings of British drama to the closing of the theatres in 1642, Shakespeare's plays excluded.

### **ENGL 338 Modern Drama (3)**

A study of the significant developments in British and American drama from Shaw to the Theatre of the Absurd.

### **ENGL 339 Advanced Creative Writing (3)**

*Prerequisites:* ENGL 220 and 377 or 223 and 378, and permission of the instructor.

### **ENGL 340 Restoration and 18th Century Drama (3)**

British drama from the reopening of the theatres in 1660 to the end of the 18th century.

### **ENGL 341 Literature of the American South, 1900-Present (3)**

A study of selected texts by and about residents of the U.S. South, with an emphasis on works produced since 1900 that reflect the social and cultural changes the region has experienced over time.

### **ENGL 342 Colonial and Revolutionary American Literature (3)**

An intensive study of representative writers from the Age of Exploration through the early 19th century.

### **ENGL 343 American Renaissance, 1830-1870 (3)**

A study of American prose and poetry from the beginnings of the Romantic Era to the beginnings of the Age of Realism. The course will cover such writers as Poe, Emerson, Thoreau, Fuller, Melville, Hawthorne, Douglass, Longfellow, Whittier, Whitman and Dickinson.

### **ENGL 344 Late 19th Century American Literature**

Investigation of literary texts between Civil War and around 1900, with a focus on sentimentalism, regionalism & local color, realism, and naturalism. Emphasizes complex relationships between literature and late-19th milieu, including literary markets, gender and sexuality, race and ethnicity, class, urbanization, immigration and assimilation, capitalism, technology, and nationalism.

*Note: Completion of ENGL 207: Survey of American Literature to the Present, is strongly recommended.*

### **ENGL 346 Contemporary American Fiction (3)**

An intensive study of American fiction appearing after 1965.

### **ENGL 347 Writing the Novel (3)**

A two-semester course for writers with the motivation, ambition and vision necessary to sustain an extended work of fiction. Taught both as a workshop and in private conferences. Students will complete and revise 50 pages of a proposed novel in the first semester, an additional 50–75 pages in the second.

*Prerequisites:* ENGL 223 or 378, and permission of the instructor.

### **ENGL 348 Writing the Novel (3)**

The second of a two-semester course for writers with motivation, ambition, and

vision necessary to sustain an extended work of fiction. Taught both as a workshop and in private conferences. Students will complete and revise 50 pages of a proposed novel in the first semester, an additional 50–75 pages in the second.

*Prerequisites:* ENGL 223 or 378, and permission of the instructor.

### **ENGL 349 American Novel to 1900 (3)**

A study of American novelists of the 18th and 19th centuries, such as Rowson, Brown, Foster, Hawthorne, Melville, Alcott, Twain, Howells, James, Chopin, Chesnut and Crane. This course will also examine the development of the genre itself.

### **ENGL 350 Major Authors (3)**

An intensive study of one or two major writers.

### **ENGL 351 Studies in American Film (3)**

This course surveys American film from 1905 to 1945, tracing the international triumph of the Hollywood studio system. Special issues to be studied: studio rivalry as a creative force and the individual filmmaker's response to the studio system.

*Prerequisite:* ENGL 212 or permission of the instructor.

### **ENGL 352 Major African Writers (3)**

An introduction to contemporary literary masterpieces of major African authors. Works will include fiction, poetry and drama.

### **ENGL 353 African Women Writers (3)**

An introduction to the writings of African women, including Buchi Emecheta, Mariama Bâ, Fadhma Amrouche, Nadine Gordimer and others.

### **ENGL 354 Jewish-American Literature (3)**

A study of 20th-century Jewish-American literature; specific topics may vary from semester to semester.

### **ENGL 355 The American Short Story (3)**

A study of the development of the American short story from its beginnings in the early 19th century to its varied examples at the end of the 20th century.

**ENGL 356 American Novel, 1900-1965 (3)**

A study of modern American novels by writers such as Dreiser, Wharton, Cather, Lewis, Fitzgerald, Hemingway, Faulkner, Steinbeck and Ellison.

**ENGL 357 Contemporary British Literature (3)**

A study of representative writers from 1945 to the present focusing on writers' responses to earlier traditions of realism and modernism. Works will include fiction, drama, and poetry by such authors as Martin Amis, A.S. Byatt, Tom Stoppard, Philip Larkin and Seamus Heaney.

**ENGL 358 Colonial and Postcolonial British Literature (3)**

A study of representative writers from former British colonies and their diasporas, focusing on writers' responses to colonial representations of race and nation. Works studied will include fiction, drama, poetry, and criticism by writers such as Chinua Achebe, Jamaica Kincaid, Salman Rushdie and Derek Walcott.

**ENGL 359 Contemporary American Poetry (3)**

An intensive survey of American poetry with close attention to developing critical language with which to discuss poetry and working criteria by which to judge contemporary poems.

**ENGL 360 Major Literary Themes (3)**

A thorough investigation of a theme or topic of central importance in literature.

**ENGL 361 Studies in Literature in History Pre-1700 (3)**

A detailed study of literature written before 1700, focused on a special topic to be determined by instructor.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 362 Studies in Literature in History 1700-1900 (3)**

A detailed study of literature written between 1700 and 1900, focused on a special topic to be determined by instructor.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 363 Studies in Literature in History 1900-Present (3)**

A detailed study of literature written since 1900, focused on a special topic to be determined by instructor.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 364 Studies in Difference and Literary Tradition (3)**

A detailed study of difference and literary tradition, focused on a special topic to be determined by instructor.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 365 Studies in Cultural Studies**

A detailed study in cultural studies, focused on a special topic to be determined by instructor.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 366 Studies in Writing, Rhetoric, and Language (3)**

A detailed study of writing, rhetoric, or language, focused on a special topic to be determined by instructor.

*Prerequisite:* ENGL 110 or equivalent.

**ENGL 370 Major Literary Genres (3)**

A detailed examination of a significant literary form or type. (Students may receive no more than six hours of credit for this course.)

**ENGL 377 Poetry Writing II (3)**

A continuation of ENGL 220. This workshop includes the study of several volumes of contemporary poetry. Students will complete several formative revision projects after having received feedback in workshop, and will familiarize themselves with the world of literary magazine publishing through the examination and review of contemporary literary journals.

*Prerequisite:* ENGL 220

*Pre-or co-requisite:* ENGL 223 or permission of the instructor.

**ENGL 378 Fiction Writing II (3)**

A continuation of ENGL 223. This workshop will take a more critical look not only at student works, but at selected classic and contemporary short-story collections. Students will subscribe to a literary journal of their choice. Some attention will be given to proper manuscript preparation in anticipation of submitting for publication.

*Prerequisite:* ENGL 223 or permission of the instructor.

**ENGL 390 Studies in Film (3)**

A detailed study of a filmmaker, topic, or genre. (Students may receive no more than six hours credit for this course.)

*Prerequisite:* ENGL 212 or permission of the instructor.

**ENGL 395 Special Topics (3)**

Subjects to be announced as offered.

**ENGL 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing, plus permission of the tutor and the department chair.

**ENGL 400 Seminar (3)**

A detailed study of an author, topic or genre. Open to juniors and seniors with permission of the instructor.

**ENGL 401 Studies and Problems (3)**

Special studies, developed by visiting lecturers or individual department members, designed to supplement or to investigate more fully offerings in the department. Announcement of the particular subject is made prior to registration for the term in which offered. Offered at the discretion of the department and open to students with permission of the instructor.

**ENGL 402 Advanced Workshop in Poetry Writing (3)**

Advanced study of contemporary methods in the crafting of poetry. Students complete 30 pages of poetry and participate in advanced workshops.

*Prerequisites:* ENGL 220, 377, and permission of the instructor.

**ENGL 403 Advanced Workshop in Fiction Writing (3)**

Advanced study of contemporary methods in the crafting of fiction. Students complete 50 pages of short fiction and participate in advanced workshops.

*Prerequisites:* ENGL 223, 378, and permission of the instructor.

**ENGL 404 Independent Study (1-3, Repeatable up to 12)**

Research in a specified area in consultation with a department member

who will guide the work and determine the hours of credit to be allowed. Open to juniors and seniors with permission of the instructor and the department chair. (Students may earn no more than six hours of credit toward the English major requirements in this course.)

#### **ENGL 406 Crazyhorse Literary Publishing Practicum (3)**

Study of all aspects of literary magazine production, including reading manuscripts submitted for consideration, proofreading, and the identification and articulation of the qualities inherent in "publishable work."

*Prerequisites:* Either ENGL 220 and 377 or ENGL 223 and 378, and permission of the instructor.

#### **ENGL 450 Senior Seminar in Major Authors (3)**

An advanced study of one or two major authors, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 460 Senior Seminar in Major Literary Themes (3)**

An advanced study of a significant theme in the literary tradition, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 461 Senior Seminar in Literature in History Pre-1700 (3)**

An advanced study of literature written before 1700, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 462 Senior Seminar in Literature in History 1700-1900 (3)**

An advanced study of literature written between 1700 and 1900, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 463 Senior Seminar in Literature in History 1900-Present (3)**

An advanced study of literature written from 1900 to the present, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 464 Senior Seminar in Difference and Literary Tradition (3)**

An advanced study of difference and literary tradition, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 465 Senior Seminar in Cultural Studies (3)**

An advanced study of film and/or cultural studies, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 466 Senior Seminar in Writing, Rhetoric, and Language (3)**

An advanced study of writing, rhetoric, or language, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 470 Senior Seminar in Major Literary Genres (3)**

An advanced study of a significant genre in the literary tradition, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 490 Senior Seminar in Film (3)**

An advanced study of film, focused on a special topic to be determined by instructor.

*Prerequisites:* ENGL 110 or equivalent. Open to seniors, with permission of instructor.

#### **ENGL 495 Field Internship (1-3)**

A field internship provides the advanced student an introduction to the nature,

methods, and literature of one of the professions.

*Prerequisites:* Sophomore, junior or senior standing, a major in English, permission of the instructor and the department chair.

#### **ENGL 496 Undergraduate Research (1-3)**

Research that involves the student in a faculty member's research project. The project is designed to culminate in a publication, in which the student will be recognized for his or her role.

#### **ENGL 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. A student must have a GPA of 3.25 in the major to qualify and must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A preliminary proposal must be submitted in writing and approved by the departmental Honors Committee prior to registration for the course. Students will confer regularly with their tutor both on the progress of their research (in the first term) and on the draft of their paper (in the second term). The finished paper will normally be 50 or more pages and will reflect detailed research in the field.

## Entrepreneurship Courses

#### **ENTR 320 Principles of Entrepreneurship (3)**

This course describes entrepreneurship as a process of economic or social value creation, rather than the single event of opening a business. Reflecting recent research, the course focuses on opportunity recognition, assembly of the financial and human resources needed to develop the idea, and launching the new venture.

*Prerequisites:* Junior standing.

#### **ENTR 321 New Venture Planning (3)**

Student teams write complete business plans for new ventures they originate. Topics covered include research on the target industry and market; analysis of the competition and potential risk; the development of plans for marketing, operations, technology, and management;

full pro-forma financial projections, and consideration of milestones, exit, and social responsibility.

*Prerequisites:* ACCT 203, MGMT 301, and ENTR 320.

### **ENTR 335 Funding New Ventures (3)**

This course covers commonly used means of funding new ventures including credit cards, short- and long-term debt instruments, and receivables financing. Also covered are the two most common forms of equity investment: angel capital and venture capital. The course uses a combination of lectures, case studies, and expert guest presentations.

*Prerequisite:* ENTR 320.

*Co-requisite or prerequisite:* ENTR 321.

### **ENTR 375 Research in Entrepreneurship (3)**

This course applies qualitative and quantitative methods to the study of entrepreneurship. The course begins by reviewing theories of entrepreneurial behavior, then turns to development of student research projects using data individually collected or contained in national or international databases.

*Prerequisites:* PSYC 103, ENTR 320 and DSCI 232 or PSYC 103, PSYC 220 and ENTR 320.

### **ENTR 405 Small Business Management (3)**

This course deals with the overall management of small firms. Students will work on cases provided by the instructor. The cases require that students help real businesses solve problems in the accounting, finance, management and marketing areas.

*Prerequisites:* ACCT 203, 204, ENTR 320, MGMT 301, MKTG 302, FINC 303, ECON 200, 201 and MATH 104; junior standing.

### **ENTR 406 Social Entrepreneurship (3)**

This course explores issues in not-for-profit entrepreneurship such as ways social reform can be enhanced by adopting principles inherent in sustainable business and ways outcomes can be measured to satisfy contributors and agencies. Readings, lectures, and case discussions will be used to explore these and related issues.

*Prerequisite:* ENTR 320.

## **Environmental Studies Courses**

### **ENVT 200 Introduction to Environmental Studies (3)**

An introduction to interdisciplinary thinking about the relationships between humans and their environments and the practical problems resulting from these relationships. The course considers basic elements in the humanities, social sciences and natural sciences that are essential for understanding interactions of humans with the environment.

*Prerequisite:* Sophomore standing.

### **ENVT 350 Independent Study in Environmental Science and Studies (1-4)**

A directed research project on some dimension of environmental science and studies, approached from an interdisciplinary perspective.

*Co-requisites or prerequisites:* At least three courses in the environmental studies minor. Enrollment by permission of the instructor and coordinator of program.

### **ENVT 352 Special Topics in Environmental Science and Studies (1-4)**

An interdisciplinary study of a particular area of environmental concern. Topics will vary. Course may be taken twice for credit, with permission of the coordinator, if topics are substantially different.

*Co-requisites or prerequisites:* At least three courses in environmental studies minor.

*Note: If cross-listed with special topics course in another department, the prerequisites of that department will apply.*

### **ENVT 355 Environmental Studies Field Internship (1-3)**

Students apply knowledge learned in the classroom to a field experience with an organization that works on environmental issues. The internship involves substantial work with an organization, scheduled meetings with the program coordinator, and a significant writing project.

*Prerequisites:* Junior standing, nine hours in the minor including ENVT 200, and permission of instructor

### **ENVT 395 Environmental Studies Seminar (1)**

An interdisciplinary seminar on current environmental issues. May be taken twice with approval of coordinator.

*Co-requisite or prerequisite:* At least three courses in the environmental studies minor.

## **European Studies Courses**

### **EUST 400 European Studies Capstone (3)**

A synthetic interdisciplinary examination of one or more themes or topics on Europe offered by one or more faculty from the disciplines in the three interdisciplinary clusters. Students will have the opportunity to think across disciplines, to make connections between disciplines and to synthesize their acquired knowledge of Europe.

*Prerequisites:* In fulfilling the general education requirements, students will take HIST 101 and 102 (or HONS 120 and 130) or their equivalents and a European language.

## **Finance Courses**

### **FINC 120 Personal Finance (3)**

An introductory course analyzing the characteristics and relative importance of common and preferred stocks, mutual funds, municipal and corporate bonds, Treasury obligations, U.S. Government agency issues and real estate. Special topics including portfolio management, insurance and interest rates will also be covered. This course will not be applied toward the GPA in business, international business, economics or accounting.

### **FINC 260 Special Topics in Finance (3)**

This course is intended for those students who are not business, international business, accounting or economics majors and who have minimal training in finance. The course is designed for the secondyear student and will focus on various areas of personal and corporate finance. This course will not count toward fulfilling the requirements for a business, international business, accounting or economics degree. In the

School of Business and Economics, it will count as a general elective.

### **FINC 303 Business Finance (3)**

This course presents the fundamental concepts of corporate finance. Special attention will be given to the financial administrator's role in the area of working capital, capital budgeting, and financing decisions, including international investment and financial considerations.

*Prerequisites:* Junior standing; ACCT 203, 204, ECON 200, 201, MATH 104 or 250, DSCI 232 suggested. Enrollment restricted to declared majors.

### **FINC 313 Management of Financial Institutions (3)**

The theory and practice of bank management is developed. The fundamental principles underlying the management of bank assets are emphasized. Attention is devoted to the allocation of funds among various classes of investments and banking operating costs and to changing bank practices.

*Prerequisites:* Junior standing; ACCT 203, 204, FINC 303, ECON 200, 201, MATH 104 or 250.

### **FINC 315 Intermediate Business Finance (3)**

This course provides students interested in the study of financial management the opportunity to apply the concepts of financial management to business problems. Personal computers are used as a tool in solving problems in areas such as financial analysis, cash management, financial forecasting and planning, cash budgeting and capital structure decisions. Software utilized will include standard spreadsheet and financial decision-making packages.

*Prerequisites:* Junior standing; ACCT 203, 204, FINC 303, ECON 200, 201, MATH 104 or 250.

### **FINC 360 Special Topics in Finance (3)**

An in-depth treatment of a current area of special concern or interest within the field of finance.

*Prerequisites:* Junior standing; FINC 303; ACCT 203, 204; ECON 200, 201; MATH 104 or 250; or permission of the instructor.

### **FINC 382 International Financial Markets (3)**

An introduction to the operation of international financial markets emphasizing the determination of exchange rates, foreign exchange markets and instruments.

*Prerequisites:* Junior or senior standing; ECON 201, ECON 200, FINC 303.

### **FINC 385 Principles of Risk Management and Insurance (3)**

This course is designed to generate an awareness of risk, its effects on individual and business decisions, and the importance of insurance as a risk financing technique. The relationship between risk management and the functional areas of business is examined. Course content includes property and liability insurance, life and health insurance, workers' compensation and employee benefits.

*Prerequisite:* Junior standing.

### **FINC 386 Risk Management (3)**

A study of the risk management process, the steps it involves, and the administrative aspects undertaking the risk management process. Focus is on the exposures to accidental losses facing organizations and the relationship between risk management and the functional areas of business.

*Prerequisites:* Junior standing; ACCT 203, 204, FINC 303, ECON 200, 201, MATH 104 or 250.

### **FINC 399 Tutorial (3, Repeatable up to 6)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing; ACCT 203, 204; ECON 200, 201; MATH 104 or 250; FINC 303; plus permission of the instructor and the chair of the department.

### **FINC 400 Investment Analysis (3)**

Basic investment theory with emphasis given to the analysis of securities, portfolio management and the operation of the securities market.

*Prerequisites:* Junior standing; ACCT 203, 204, DSCI 232, FINC 303, ECON 200, 201, MATH 104 or 250.

### **FINC 410 Seminar in Finance (3)**

Case analysis in financial problems of the firm emphasizing: analysis of the demand

for funds, external and internal sources of funds and their cost to the firm, problems of the multinational firm and other techniques of financial management such as capital budgeting, cash budgeting and optimal capital structure.

*Prerequisites:* Junior standing; ACCT 203, 204, FINC 303, ECON 200, 201, MATH 104 or 250.

### **FINC 420 Independent Study (1-3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed.

*Prerequisites:* Junior standing; written agreement of the instructor and permission of the department chair.

### **FINC 444 Finance Internship (3)**

A supplemental source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved agency and the school. The learning experience will be guided by a learning contract outlining specific work and academic components.

*Prerequisites:* Senior standing; declared major or minor in the School of Business and Economics; acceptance to an internship program or site; interview with and approval of the instructor. See the departmental internship coordinator for more details.

### **FINC 499 Bachelor's Essay (3)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the finance faculty. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the Department of Economics and Finance prior to registration for the course.

*Prerequisites:* Senior standing and department approval.

# First Year Seminar Courses

## FYSM 1xx First-Year Seminar (3)

First-Year Seminars focus on topics within or across the disciplines of study in the College curriculum. Seminars introduce students to the discipline, its ways of thinking and methods of conducting research. Seminars also address the needs of first-year students: introducing students to the College's liberal arts and sciences curriculum and to resources such as the Library, computing facilities, advising and other student support services.

*Notes: Particular sections of the seminar may count for general education credit and may also count for credit toward a major. No prerequisites and not open to students with more than 30 semester hours of credit (transfer of College of Charleston credit, excluding AP and dualenrollment credits).*

# Foundations, Secondary, and Special Education Courses

## EDFS 201 Introduction to Education (3)

A survey of the American public school system with emphasis on current trends and issues, the development of teaching as a profession, organization and control of schools and the history of education. F, S, Su.

*Prerequisite:* Class rank of sophomore or above.

*Note: EDFS 201 is a prerequisite to all other education courses.*

## EDFS 303 Human Growth and Education Process (3)

This course provides an introduction to the general principles of lifelong human growth and development and their relationship to the educational process. An emphasis will be placed on physical, social, intellectual and emotional development and their interaction with educational variables.

*Note: Candidates who have received credit for PSYC 311 prior to beginning a teacher education program should not take EDFS 303 (credit will not be awarded).*

## EDFS 326 Integrating Technology Into Teaching (3)

This is an introductory course for pre-service teachers using technology in the classroom. Students become familiar with application software such as word processing, database, spreadsheet, and hypermedia, desktop publishing and telecommunications and learn to evaluate hardware and software.

## EDFS 330 Classroom & Behavior Management (3)

Course designed to enable candidates to implement positive management techniques in their classrooms. Focuses on principles and procedures underlying effective social and academic development and the use of positive motivational methods with children and youth.

*Prerequisites:* EDFS 201 and class rank of junior or above.

## EDFS 345 Introduction to the Education of Exceptional Children and Youth (3)

An introduction to programs, problems and procedures related to working with children and youth who are exceptional: mentally, physically or emotionally. Focuses on children and youth who have problems of vision, hearing or speech as well as those with physical and neurological difficulties. Attention is also given to recent research and timely issues dealing with students with exceptionalities and special education programs. Observations required.

*Co-requisite or prerequisite:* EDFS 303 or equivalent.

## EDFS 350 Field Experience I in the Instruction of Students with Disabilities (3)

Supervised field experience requiring 45 hours of classroom experience with children or youth with disabilities. Related seminar addresses the roles of the special educators, organizational and legal contexts for special education programs, models of service delivery, professional and ethical practice and collaboration skills.

*Prerequisites:* EDFS 345 and 411.

## EDFS 351 Characteristics of Students with Emotional Disabilities (3)

An introductory study of causes, characteristics, and educational practices associated with students with emotional disabilities. Includes field experiences with students with emotional disabilities. Observations required.

*Prerequisite:* EDFS 345.

## EDFS 352 Characteristics of Students with Learning Disabilities (3)

An introductory study of causes, characteristics, and educational practices associated with students with learning disabilities. Includes field experiences with students with learning disabilities. Observations required.

*Prerequisite:* EDFS 345.

## EDFS 353 Characteristics of Students with Mental Disabilities (3)

An introductory study of causes, characteristics, and educational practices associated with students with mental disabilities. Includes field experiences with students with mental disabilities. Observations required.

*Prerequisite:* EDFS 345.

## EDFS 411 Introduction to Curriculum and Instruction for Students with Disabilities (3)

An introduction to curricular, instructional and assessment concepts for teacher candidates in special education. Candidates will be introduced to curriculum frameworks (K-12), instructional design, lesson planning, program models in special education, effective instruction literature and typical assessment models.

*Co-requisite or prerequisite:* EDFS 345.

## EDFS 412 Social Competence Instruction for Students with Disabilities (3)

A study of the application of functional behavioral assessment, development of positive behavior intervention plans, and instruction in social competence addressing the unique social learning and behavioral characteristics of students exhibiting high-incidence disabilities with primary or secondary behavioral and/ or emotional characteristics within the context of an academically meaningful school-based program.

*Prerequisite:* EDFS 330.

**EDFS 413 Field Experience II in the Instruction of Students with Disabilities (3)**

Supervised field experiences requiring a minimum of 45 hours of direct instruction of children or youth with disabilities. Related seminar address timely issues in special education; understanding research related to special education and integrating it into practice; best practices for planning and implementing instruction with students with disabilities; and best practices for managing special education classrooms. In addition, knowledge and skills developed in the initial field experience are reinforced. These include communication, problem solving, professional roles, programs models, student diversity and CEC standards.

*Prerequisites:* EDFS 345 and 411.

**EDFS 422 Educational Procedures for Students with Mental Disabilities (3)**

An in-depth study of educational procedures, curriculum, methods and materials used to teach children and youth with varying degrees of mental disabilities. Includes teaching procedures, systems of support, development of community and vocational training, technological applications and classroom management techniques.

*Prerequisite:* EDFS 353.

**EDFS 425 Teaching Reading and Language Arts to Students with Disabilities (3)**

An in-depth study of research-based teaching methodologies for K–12 students with high-incidence disabilities in the areas of reading and written language. Grounded in national and state curriculum standards, the course will focus on developmental, corrective and strategic reading and writing approaches and require candidates to demonstrate competence in planning individualized programs.

*Prerequisites:* EDFS 345 and 411.

**EDFS 426 Language Development and Communication (3)**

The study of language development and how to enhance language and communication skills of students with disabilities. Class sessions will address language communication abilities of students with a variety of disabilities, assessing and enhancing communication skills of students with a disability,

exploring augmentative and alternative modes of communication and investigating the effects of culture on language development.

*Prerequisites:* EDFS 201 and 303.

**EDFS 427 Math for Students with Disabilities (3)**

A course designed to prepare candidates to teach mathematics, problem solving, and reasoning skills to students with high-incidence disabilities K–12. The course will focus on national mathematics curriculum standards, high-stakes assessment, functional mathematics and problem solving with an emphasis on the effects of disabilities on mathematics achievement. The problem-solving strand will be extended to include cross-curricular applications of reasoning skills.

*Prerequisites:* EDFS 345 and 411.

**EDFS 428 Procedures for Teaching Students with Learning Disabilities (3)**

This course is designed to prepare students to teach children and youth with learning disabilities, elementary through high school. Emphasis is placed on research-based practices for teaching mathematics, modifying instruction in content areas, teaching learning strategies, and facilitating transition. The course focuses on preparing students to teach in resource and inclusive models of service delivery.

*Prerequisites:* EDFS 345, EDFS 352, EDFS 411

**EDFS 437 Assessment of Students with Disabilities (3)**

This course is designed to prepare candidates to select, administer, and interpret formal and informal educational assessment instruments and techniques. Candidates learn how to apply findings gleaned from educational assessments to the design of instruction for students with disabilities.

*Prerequisites:* EDFS 345 and 411.

**EDFS 440 Clinical Practice in Special Education (12)**

A course designed to provide candidates with an extensive supervised field experience in teaching exceptional learners. Each candidate will be placed in a special education setting commensurate with his or her emphasis within special education for a minimum of 60 days (12

weeks). Weekly seminars also are required. Candidates must apply for admission to clinical practice one semester prior to enrollment. The deadline for application for fall semester clinical practice is the last day of drop/add in the previous spring semester. The deadline for application for spring semester clinical practice is the last day of drop/add in the previous fall semester.

*Prerequisites:* Admission to the teacher education program and completion of all education courses.

**EDFS 455 Literacy and Assessment Content Areas (3)**

Course emphasizes knowledge and skills secondary teachers need to 1) understand reading, writing, and thinking processes at various instructional levels, and 2) make connections between assessment and instruction. Practical application is stressed in delivery of content-specific literacy instruction; preparation, use and interpretation of teacher-made assessments; and use of standardized tests and interpretation of results. Field experience required. Additional course content will be included in the area of student assessment.

**EDFS 456 Teaching Strategies in the Content Areas (3)**

An in-depth, content-specific study of the theory and practice of teaching for secondary education minors. The course reflects current state and national teaching standards. It teaches practicum students to be reflective practitioners. Candidates must register for a section corresponding to their academic major. EN: English SC: Science SS: Social studies MA: Mathematics FL: Languages

**EDFS 460 Clinical Practice in the Content Areas (12)**

A course designed for candidates seeking secondary or K–12 program certification in a particular field of specialization. Candidates are placed in a public school setting for intensive and continuous involvement within the context of the total instructional process for at least 60 full days (12 weeks). Weekly seminars also are required. Candidates must apply for admission to clinical practice one semester prior to enrollment. The deadline for application for fall semester student teaching is the last day of drop/add in the previous spring semester. The

deadline for application for spring semester is the last day of drop/ add in the previous fall semester.

*Prerequisites:* Admission to a teacher education program and completion of all education courses.

#### **EDFS 470 Independent Study in Education (1-3)**

A course in which candidates who have taken an appropriate sequence of preparatory courses in education may do an individually supervised study of some topic of the candidate's interest. Each project must be done in consultation with a department member qualified to guide and evaluate the work. Awarding of credit will be commensurate with the nature of the independent study as documented on the independent study.

*Prerequisites:* Class rank of junior or above and permission of the instructor and department chair.

#### **EDFS 500 Nonviolent Crises Intervention (1)**

This course provides candidates with the knowledge and skills required to effectively handle crisis situations in school, clinic, and residential settings. Candidates receive training in strategies designed to prevent and, if necessary, control verbally and physically aggressive behavior while protecting students and themselves.

#### **EDFS 560 Special Topics in Education (1-3)**

Study of a particular subject or theme in educational methods of teaching or content. Specific topics will be listed with the course title when offered, e.g., Special Topics in Education: Multicultural Education.

## **French Courses**

#### **FREN 101 Elementary French (3)**

Introduces the fundamental structures of French with emphasis on acquisition of the basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* Open only to beginning students of French.

*Note:* A student having completed FREN 101 and 102 may not take FREN 150 or 105 for credit.

#### **FREN 101C Elementary French Conversation Supplement (1)**

A one-hour weekly session for intensive listeningspeaking practice in French utilizing vocabulary and grammatical structure presented in the corresponding basic course.

#### **FREN 102 Elementary French II (3)**

Introduces the fundamental structures of French with emphasis on acquisition of the basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* Placement or FREN 101.

*Note:* A student having completed FREN 101 and 102 may not take FREN 150 or 105 for credit.

#### **FREN 102C Elementary French Conversation Supplement (1)**

A one-hour weekly session for intensive listeningspeaking practice in French utilizing vocabulary and grammatical structure presented in the corresponding basic course.

#### **FREN 105 Basic Review of French Grammar and Syntax (3)**

For students who have completed a minimum of two years of high school French as preparation for study at the intermediate level.

#### **FREN 150 Intensive Elementary French (6)**

Equivalent to FREN 101–102. Introduces the fundamental structures of French with emphasis on acquisition of the basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* This course is open only to those who are beginning students in French.

*Note:* This course covers the materials of FREN 101 and 102 in one semester.

*Classes meet five days a week for a total of six hours of instruction. It is designed for students seeking to accelerate their studies of French. Students who have completed FREN 101, 102, or 105 may not receive credit for FREN 150.*

#### **FREN 201 Intermediate French (3)**

Develops a basic proficiency in French and familiarity with French culture through practice in the use of the basic

language skills and acquisition of vocabulary.

*Prerequisite:* FREN 102 or 105 or placement.

#### **FREN 201C Intermediate French Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening- speaking practice in French, utilizing vocabulary and grammatical structure presented in a corresponding basic course.

#### **FREN 202 Intermediate French (3)**

Develops a basic proficiency in French and familiarity with French culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* FREN 201 or placement.

#### **FREN 202C Intermediate French Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening- speaking practice in French, utilizing vocabulary and grammatical structure presented in a corresponding basic course.

#### **FREN 220 Special Assignment Abroad (1-3, to be Determined by Chair)**

An internship or other experiential learning project designed to enhance command of French in a French-speaking environment. Assignment to be undertaken and nature of its evaluation to be determined in consultation with the instructor or department chair.

#### **FREN 250 Intensive Intermediate French (6)**

Equivalent to FREN 201–202. Aims to develop a basic proficiency in French and familiarity with French culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* FREN 102, 105 or 150 with a grade of "C+" (2.5) or better, or placement via placement exam. Students are advised not to postpone completion of their language requirement until their senior year since this course might not be available to them.

*Note:* This course covers the materials of FREN 201–202 in one semester. *Classes meet five days a week for a total of six hours of instruction. It is designed for students seeking to accelerate their studies of French. Having completed FREN 201 and/or 202, students may not*

take FREN 250 for credit; conversely, students who complete FREN 250 may not receive credit for 201 or 202.

### **FREN 313 French Composition and Grammar (3)**

Intensive review of basic grammar. Students develop their skills in French composition in a range of genres and in ways that emphasize clarity, coherence, intellectual force, and stylistic control. Students are highly encouraged to take FREN 313 and 314 concurrently. This course is conducted in French.

*Prerequisites:* FREN 202 or 250 or placement.

### **FREN 314 French Conversation and Composition (3)**

Emphasis on the enhancement of oral proficiency in French. Students improve pronunciation, conversation and listening skills, while developing and expanding French vocabulary. Conversation topics will include a wide range of situations and themes. Students are highly encouraged to take FREN 313 and 314 concurrently. This course is conducted in French.

*Prerequisites:* FREN 202 or FREN 250 or placement.

### **FREN 320 A Survey of Francophone Literature (3)**

This course provides an exploration of Francophone literature and film. We will explore key literary texts and movements, seeking to understand the products and perspectives of colonialism and its aftermath.

*Prerequisite:* FREN 313 and FREN 314 or permission of the instructor.

### **FREN 321 A Survey of French Literature (3)**

This course provides an overview of French literature from the Middle Ages through the Twentieth Century. It also introduces methods of critical analysis that can be applied to all genres of literature.

*Prerequisite:* FREN 313 and FREN 314 or permission of the instructor.

### **FREN 326 A Survey of Francophone Civilization (3)**

This course will examine key cultural aspects of Postcolonial French-speaking countries of the Maghreb, Sub-Saharan Africa, and the Caribbean islands through written literatures, cultural theories,

political discourse, cinema, music and art.

*Prerequisites:* FREN 313 and FREN 314 or permission of instructor.

### **FREN 327 A Survey of French Civilization (3)**

This course will introduce students to the history of the French Civilization from the earliest recorded history through 1950. Students will read selections from authentic documents and literature of each period as well as information about historical events and their significance for Europe and the World, throughout history and contemporary events.

*Prerequisites:* FREN 313 and FREN 314 or permission of instructor.

### **FREN 330 Collateral Study (1-3)**

Individually supervised course of reading French and in the subject area of a concurrent course offered by another department. The nature and extent of readings will be determined in consultation among student, instructor of the primary subject-matter course and the language instructor who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to maximum of six credit hours in conjunction with other primary courses.

### **FREN 341 Phonetics and Advanced Language Study (3)**

Phonetics, corrective drills for the improvement of pronunciation and intonation, as well as the phonological structure of French.

*Prerequisites:* FREN 313 and 314 and one course from the sequence FREN 320, 321 or permission of the instructor.

### **FREN 342 Advanced French Grammar (3)**

A review of the fundamentals of French grammar and structure, with emphasis on verbs and pronouns, as well as the expansion of certain rules in conformity with current usage.

*Prerequisites:* FREN 313 and 314 or permission of the instructor.

### **FREN 350 Intensive Conversation and Composition (6)**

Equivalent to FREN 313–314. This course aims to develop fluency in spoken and written French.

*Prerequisite:* FREN 202 or 250, placement or permission of the instructor.

### **FREN 360 French Language Study Abroad (3)**

Designed to develop confidence in communicative skills and greater facility in dealing with ideas in French through life and study in a French-speaking country.

*Prerequisites:* FREN 202 or 250 or permission of instructor.

### **FREN 361 Current Issues in France or the French-Speaking World (3)**

A study of the most important current political, socio-economic and cultural issues in the country visited. Information from the communications media (newspapers, magazines, TV, etc.) will be used and discussed whenever possible.

*Prerequisite:* FREN 202 or 250 or permission of the instructor.

### **FREN 363 Advanced French Culture (3)**

This course teaches students to better understand the French culture in comparison with American life, and to better communicate despite cultural differences. Course material will consist in part of students' analysis of personal experiences while living overseas. An emphasis will be placed on intercultural interactions. This course is offered exclusively in France.

*Prerequisites:* FREN 202 or 250 or permission of instructor.

### **FREN 370 Studies in French and Francophone Literature and Film (3)**

Study of major works of literature and their adaptation to the screen, with emphasis on the similarities and differences between the two media.

*Prerequisites:* FREN 313 and FREN 314 or permission of instructor.

*Note: The course will be taught in French. The course will count towards the major.*

### **FREN 380 Le Concept De Marketing (3)**

This course develops an appreciation for the complexities of establishing and implementing marketing strategies in both domestic and international economies. Areas of study include consumer and industrial behavior, marketing research, products/services, channels of distribution, packaging,

positioning, pricing and promotions. The course highlights the basic differences in the American and French outlooks of marketing. The course is offered in French.

*Prerequisites:* FREN 313 and FREN 314

### **FREN 381 French for World Business I (3)**

An introduction to the practical vocabulary and syntax used in normal French business transactions. Topics include: role of government in French economy, opening and operating bank accounts, making business contacts, business travels, making and canceling reservations, business correspondence, business etiquettes, etc. Through case studies and other activities, cultural components of international business as well as oral skills adapted to international business practices will be emphasized.

*Prerequisites:* FREN 313 and FREN 314

### **FREN 382 French for World Business II (3)**

Development of vocabulary and expressions related to international business practices, focusing on business and economic climates and trends with specific goals of developing reading comprehension, cultural understanding, and ability to analyze economic and political discourse. Topics, including structure of French business, sales, advertising, negotiation, banking, imports and exports, will reinforce oral and written communication.

*Prerequisites:* FREN 313 and FREN 314

### **FREN 390 Special Topics in French (3)**

Intensive study of a particular subject or theme (Specific topics will be listed in the Schedule of Courses when offered; e.g., History of French Music).

*Prerequisites:* FREN 313 and FREN 314, one one course from the following sequence FREN 320, 321, 326, 327 or permission of the instructor.

### **FREN 431 The Middle Ages and the Renaissance in France (3)**

Study of the beginnings and development of the earliest forms of the novel: The Chansons de geste and Roman Courtois through Rabelais; the evolution of French lyrical poetry through La Pleiade; the growth of theatre from the drame religieux and farce through the birth of French tragedy; and the Humanist movement with an emphasis on

Montaigne. Texts will be read in modern versions.

*Prerequisites:* FREN 313 and FREN 314, and one course from the following sequence FREN 320, 321, or permission of the instructor.

### **FREN 432 Literature of the 17th Century (3)**

A study of various genres of literature, including poetry, prose, and theater. Students will read the great works of that era; they will analyze how those works reflected and impacted the culture of the time.

*Prerequisites:* FREN 313 and 314 and one course from the sequence FREN 320, 321 or permission of the instructor.

### **FREN 434 Literature of the 18th Century (3)**

The Enlightenment: Fontenelle, Montesquieu, Voltaire, Diderot, L'Encyclopédie, L'Abbé Prevost, Rousseau and others.

*Prerequisites:* FREN 313 and FREN 314, one one course from the following sequence FREN 320, 321, or permission of the instructor.

### **FREN 435 Literature of the 19th Century (3)**

A study of various genres of literature, including poetry, prose, and theater. Students will read the great works of that era; they will analyze how those works reflected and impacted the culture of the time.

*Prerequisites:* FREN 313 and FREN 314, and one course from the following sequence FREN 320, 321 or permission of the instructor.

### **FREN 437 Literature of the 20th Century (3)**

A study of various genres of literature, including poetry, prose, and theater. Students will read the great works of that era; they will analyze how these works reflected and impacted the culture of the time.

*Prerequisites:* FREN 313 and FREN 314, and either FREN 320 or 321 or permission of the instructor.

### **FREN 443 The Novel in France (3)**

A survey of its development from the early psychological novel through the modern novel and Nouveau Roman. Theoretical works will be studied as well.

*Prerequisites:* FREN 313 and FREN 314, and either FREN 320 or 321 or permission of the instructor.

### **FREN 451 African Literature of French Expression (3)**

The evolution of the major genres of the African literature in French south of the Sahara from 1808 to present and a study of the main literary currents of some of the significant works of the major writers.

*Prerequisites:* FREN 313 and FREN 314, and either FREN 320 or 321 or permission of the instructor.

### **FREN 452 Literature of the Maghreb (3)**

This course is designed to explore the historical and social background of this literature and its international success. Colonialism, nationalism, independence, and post-colonialism in North Africa set the stage for writers like Tahar ben Jelloun, Rachid Boujedra, Mohamed Choukri, Asia Djebar to write metaphorically about Islam, women, human rights, oppression, alienation and immigration.

*Prerequisites:* FREN 313 and FREN 314, and either FREN 320 or 321 or permission of the instructor.

### **FREN 482 French and Francophone Women Writers (3)**

This course will survey the historical, religious, and psycho-philosophical aspects of women's conditions in various cultures of the French-speaking world throughout history and how those conditions are reflected in literature written by the women who lived in them. Various genres of literature will be studied, including poetry, prose, and theater.

*Prerequisites:* FREN 313 and FREN 314, and either FREN 320 or 321 or permission of the instructor.

### **FREN 490 Special Topics in French (3)**

Intensive studies designed to supplement or to investigate more fully offerings in the French curriculum. Formulation of the specific subject matter for the course will reflect both student and faculty interest.

*Prerequisites:* FREN 313 and FREN 314, and one course from the following sequence, FREN 320, 321, 326, 327 or permission of the instructor.

**FREN 495 Capstone Seminar: Contemporary France and the Francophone World (3)**

The capstone experience provides French majors with an opportunity to integrate the coursework from their major and other related interdisciplinary experiences. Students will research and explore a broad subject or theme from the Francophone world, thus enabling them to develop critical analysis and put into practice the knowledge and skills they have developed as French majors.

*Prerequisites:* Two courses completed at the 400 level, senior status or permission of the chair. Permission of the instructor.

**FREN 496 Directed Reading (1-3)**

An individual research course where a student works closely with a professor on an assigned topic.

**FREN 498 Independent Study (1-3)**

Research on a topic to be defined by the individual student in consultation with the instructor in the department who will guide the work and determine the credit hours to be assigned.

*Prerequisite:* Permission of the instructor.

**FREN 499 Bachelor's Essay (6)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the French faculty. The student must have a GPA of 3.25 in the major to qualify and must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project must be submitted in writing and approved by the chair. The finished paper will normally be 50 or more pages and will reflect research in the field.

**LTFR 150 French Literature in (English) Translation (3)**

Study of selected works from a number of literatures that offer different perspectives on the world and humankind.

**LTFR 250 Francophone Literature in Translation (3)**

A study of major works of Francophone literature in translation from around the world. May not count toward the major.

## Geography Courses

**GEOG 101 World Regional Geography (3)**

This course introduces students to the key concepts of geography through the lens of different regions of the world. Students explore the dynamics of human existence in different settings, arriving at a holistic understanding of life in the region by considering the interaction of physical and human geographies. The focus is on diversity amid the commonalities of human experience. Cross-listed with POLS 104. Students may not earn credit for both courses.

**GEOG 119 Special Topics in Geography (3)**

This course examines selected topics in geography not covered in other courses.

**GEOG 219 Reading the Lowcountry Landscape (3)**

This course will develop geographic skills through a critical analysis of the South Carolina Lowcountry. The course takes holistic approach to understanding the Lowcountry by exploring the various processes (such as environmental, political, cultural and economic) that have shaped the region. Because geography emphasizes sensitivity to place, field research is an integral component of this course.

**GEOG 301 Special Topics in Geography (3)**

This course examines selected topics in geography not covered in other courses.

**GEOG 401 Reading and Independent Study in Geography (1-3)**

This is a course designed primarily for the student interested in a particular topic. The amount of reading and/or the nature of the project will determine the credit to be assigned.

*Prerequisite:* Permission of the instructor; may be repeated; no more than six hours may be applied to the minor.

## Geology and Environmental Geosciences Courses

**GEOL 101 Dynamic Earth (3)**

This course examines many aspects of the Earth: its internal structure and

composition; its atmosphere and oceans; surface processes such as erosion by streams, wind, and glaciers, and the folding and faulting of solid rock; as well as earthquakes, volcanism and plate tectonics. Lectures three hours per week. Natural science general education requirement is satisfied by taking either GEOL 101 and GEOL 105 or GEOL 103 and GEOL 105. A student cannot get credit for both GEOL 101 and GEOL 103.

**GEOL 101L Dynamic Earth Laboratory (1)**

A laboratory course to accompany GEOL 101. Laboratory three hours per week.

*Co-requisite:* GEOL 101. A student cannot get credit for both GEOL 101L, GEOL 103L or HONS 155L.

**GEOL 103 Environmental Geology (3)**

This course provides an introduction to the study of environmental geology. The course emphasizes how humans live with geological hazards such as earthquakes, volcanoes, landslides and floods. The course will also examine how the application of the science of geology can solve environmental problems, such as groundwater pollution, hazardous waste disposal and coastal erosion that arise from the utilization of natural resources. Lectures three hours per week.

*Co-requisite:* Laboratory 103L. A student cannot get credit for both GEOL 101 and GEOL 103 or HONS 155.

**GEOL 103L Environmental Geology Laboratory (1)**

A laboratory course to accompany GEOL 103. Laboratory three hours per week.

*Co-requisite:* GEOL 103. A student cannot get credit for both GEOL 101L and GEOL 103L or HONS 155L.

**GEOL 105 Earth History (3)**

An overview of the 4.5 billion-year history of our planet as revealed by analysis and interpretation of the geologic and paleontologic record preserved in rocks of the earth's crust. Lectures three hours per week.

*Prerequisites:* GEOL 101 and 101L or GEOL 103 and 103L or HONS 155 and 155L.

**GEOL 105L Earth History Laboratory (1)**

A laboratory course to accompany GEOL 105. Laboratory: three hours per week.

*Co-requisite:* GEOL 105.

### **GEOL 107 Introduction to Coastal and Marine Geology (3)**

This course introduces students to the geological processes that form, shape and modify the world's ocean basins and the sediments contained within. Coastal and deep marine depositional environments will be examined from both a modern and ancient perspective.

*Prerequisites:* GEOL 107 may not be used to fulfill the natural science and general education or geology major requirements. Students may not receive credit for both GEOL 107 and 257.

### **GEOL 206 Planetary Geology (3)**

This course is designed to explore surface landscapes of planets and moons within our solar system. Topics for discussion will include the general physiography of the planetary bodies and the processes that modify their surface morphologies (e.g., tectonism, volcanism, impact cratering, eolian, hydrologic, glacial and other resurfacing processes). Lectures three hours per week.

*Prerequisite:* GEOL 101 or 103 or permission of the instructor.

### **GEOL 213 Natural Hazards (3)**

This course investigates the scientific aspects of several types of natural hazards (earthquakes, volcanoes, floods, etc.) using in-depth case studies of recent and historical hazardous events. The course will emphasize both hazardous impacts and means of mitigating risks. Case studies of specific events will be used to highlight the social, economic, environmental and human impacts.

*Prerequisite:* GEOL 101 or 103 or HONS 155 or permission of the instructor.

### **GEOL 235 Geology and Civilization**

In this course we will examine the affects geologic phenomena have had on the development of some classical societies. We will delve into the geology behind these phenomena, learn how to identify geological events in the soil/rock record, and then critically examine how these phenomena may have affected trade, agriculture, power, resources and more.

*Prerequisite:* GEOL 101.

### **GEOL 238 Water Resources (3)**

Water resources are discussed in context of historical, present-day, and potential future conditions. Hydrology fundamentals covered in the first half, and the second half will address resource assessment, human impacts, and legal and political conflicts involving water resources. Topics are presented in a case-study format, with substantial classroom discussion.

*Prerequisites:* GEOL 101 and 101L or GEOL 103 and 103L or HONS 155 and 155L; GEOL 105 and 105L or HONS 156 and 156L.

### **GEOL 240 Special Topics in Geology (1-4)**

This course will be used to offer an examination of topics in geology for which a regular course is not offered.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156, or permission of the instructor.

### **GEOL 250 Introduction to Geochemistry (4)**

Students develop requisite theoretical and practical skills to qualitatively and quantitatively solve geological and environmental problems. This course introduces basic chemical principles required to understand fundamental geological and environmental processes. Topics covered include chemical evolution of Earth, principles and environmental applications of inorganic, aqueous, and isotope geochemistry.

*Prerequisites:* GEOL 101/101L or GEOL 103/103L or HONS 155/155L and GEOL 105/105L or HONS 156/156L, and CHEM 101/101L or CHEM 111/111L.

*Co-requisite:* GEOL 250L.

### **GEOL 250L Introduction to Geochemistry Laboratory (0)**

This course is a co-requisite with GEOL 250 Introduction to Geochemistry. Topics covered help students develop basic laboratory and practical skills that are required to successfully analyze geochemical phenomena. Ample hands-on opportunities will be provided to learn about techniques that are used to assess basic environmental parameters.

*Co-requisite:* GEOL 250.

### **GEOL 252 Mineralogy (4)**

This course will cover topics relevant to mineral study including: crystallography,

crystal chemistry, and the origin and identification of ore minerals and rock-forming minerals. Megascopic, microscopic and spectroscopic methods will be used in classroom activities. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; CHEM 101 or 111; or permission of the instructor.

### **GEOL 257 Marine Geology (4)**

A study of geological processes at work in the sea. Discussion of the various marine environments ranging from the nearshore estuarine and coastal environments to those of the deep ocean basins. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; or permission of the instructor. Students may not receive credit for both GEOL 107 and 257.

### **GEOL 260 NASA Space Mission Design (2)**

Students work on teams with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisites:* GEOL 206 or permission of instructor.

*Co-requisite:* GEOL 260L or GEOL 460L

### **GEOL 260L NASA Space Mission Design Lab (1)**

Lab students work on teams with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisites:* GEOL 206 or permission of instructor.

*Co-requisites:* GEOL 260

### **GEOL 269 Introduction to Petrology (4)**

A study of the origin, evolution, classification, composition and physical

properties of igneous, sedimentary and metamorphic rocks. The three rock groups are related to petrophysical, petrochemical and tectonic environments. Identification of hand samples and thin sections are taught in the laboratory. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; GEOL 252; or permission of the instructor.

#### **GEOL 272 Stratigraphy and Sedimentation (4)**

This course will introduce students to the various stratigraphic principles, relationships and analyses used by geologists to interpret sedimentary rock sequences. Students will also be introduced to sedimentary processes and properties that can be used to identify and interpret sedimentary environments in the stratigraphic record. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; or permission of the instructor.

#### **GEOL 275 Geomorphology (4)**

An introduction to the understanding of geomorphic principles used to interpret the evolution of landforms and the geomorphic history of different regions of the United States. Practical applications to such fields as groundwater hydrology, soil science and engineering geology. Laboratory sessions will deal with the interpretation of aerial photographs, soil maps and topographic maps. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; or permission of the instructor.

#### **GEOL 300 Independent Study in Geology (1-3)**

An independent research project in which a student works on a research topic under the supervision of a faculty member. The faculty member will help to design and supervise the project. A project proposal will be drafted and approved by both the faculty member and the student researcher and approved by the department chairman.

*Prerequisite:* Junior class standing or departmental approval.

#### **GEOL 303 Independent Study in Geology (1-3)**

An independent research project in which a student works on a research topic under the supervision of a faculty member. The faculty member will help to design and supervise the project. A project proposal will be drafted and approved by both the faculty member and the student researcher and approved by the department chairman.

*Prerequisite:* Junior class standing or departmental approval.

#### **GEOL 312 Environmental Field Methods (3)**

Professional geologists are required to interpret geologic and hydrogeologic data in the context of regulatory policy when attempting to solve environmental problems. This course will provide an introduction and synthesis of field methods and policies typically encountered by environmental geologists in the field, including study of wetlands, ground water flow and quality and assessment of contaminated soil and water. Instruction will include the use of case studies to provide a realistic context for the field studies. Lectures two hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101, 105, and 272.

#### **GEOL 314 Introduction to Remote Sensing (4)**

An introduction to the physical fundamentals of remote sensing. The course uses the electromagnetic spectrum as a guide to various sensor systems and designs. Topics include: electromagnetic spectrum, color theory, photographic films, sensor systems and design, data collection, reduction and application, computer software available and data acquisition. Course emphasis is on geologic problems. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156.

#### **GEOL 320 Earth Resources (3)**

Earth resources including metallic ore deposits, nonmetallic deposits, and energy resources utilized by society are classified and described. The compromises between the environmental impact of resource development and industrialization are also studied from a scientific perspective. Lectures three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156 and GEOL 252.

#### **GEOL 333 Paleobiology (4)**

An investigation of the record of past life on Earth as preserved in the fossil record. Processes and patterns of evolution, evolutionary thought, taxonomic classification and the origin of life on Earth and its subsequent development are among the subjects covered. The paleobiology of invertebrate taxa, including their morphology, phylogeny and ecology are stressed in the laboratory. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; or permission of the instructor.

#### **GEOL 352 Structural Geology (4)**

The mechanical basis of deformation, recognition, classification, interpretation and origin of structures produced by deformation in the Earth's crust. Deformation as a fundamental concept of tectonics. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; MATH 111 or MATH 120; or permission of the instructor.

#### **GEOL 357 Oceanographic Research-the Transect Program (4)**

This course engages students in actual multidisciplinary research, focused on the southeast continental shelf. Students participate in a 5-day research cruise, then conduct independent and collaborative research in the laboratory. Students present their research results in poster and oral form, and prepare a manuscript for publication in an online journal.

*Prerequisites:* GEOL 257 and permission of the instructor.

#### **GEOL 360 Field Studies (4)**

Three-week intensive field experience in geologic mapping and interpretation taught in the western United States using topographic base maps, aerial photography and satellite imagery. Mapping exercises emphasize the description of stratigraphic sections and geologic structures, and an interpretation of geologic history.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; GEOL 252, 269, 272, and 352, or permission of the instructor.

*Note: Students may substitute this course with another approved College- or university-sponsored geology field class with the permission of the instructor.*

*Under special circumstances, a student may petition the department to substitute an equivalent field experience for GEOL 360.*

#### **GEOL 385 Internship (1-4)**

A student will gain professional geologic experience with an internship at a private geologic firm or governmental agency. A faculty advisor will be appointed to award the grade received. The student will make all internship arrangements, and a written proposal is required before the start of the internship. A report will be required upon completion of the internship. One hour of credit will be awarded for each 45 hours completed with a maximum of four credits awarded.

*Prerequisites:* Junior or senior standing with at least a 2.5 GPA both overall and in the geology major. This course may not be applied as an elective course required in the major.

#### **GEOL 395 Special Topics (1-4)**

This course will be used to offer an examination of topics in geology at the advanced level in which a regular course is not offered. Course number may be repeated but for different course content.

*Prerequisites:* GEOL 101 and 101L or GEOL 103 and 103L or HONS 155 and 155L; GEOL 105 and 105L or HONS 156 and 156L.

#### **GEOL 399 Tutorial (1-3)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing plus permission of the tutor and the department chair.

#### **GEOL 411 Tectonics (3)**

Global tectonics has revolutionized the earth sciences. This new model of planetary tectonic processes, which has been developed only in the last 20 years, provides an explanation of a wide variety of geologic processes over a wide range of scale, with a degree of accuracy

unsurpassed by any previous theory. Lectures three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; GEOL 272 and 352; or permission of the instructor.

#### **GEOL 412 Crustal Geophysics (3)**

This course introduces students to geophysical techniques and how they are used to constrain subsurface earth structure. The geophysical techniques covered include gravity and magnetism, seismic refraction and reflection and earthquake seismology. The course also features a sequenced writing assignment integrating different geophysical techniques into one crustal model.

*Prerequisites:* MATH 120; GEOL 101 or 103 or HONS 155; GEOL 105 or HONS 156; and GEOL 352; or permission of the instructor.

#### **GEOL 416 Paleoecology (4)**

Interpretation of ancient environments from the study of rocks and their contained fossil organisms. Emphasis will be placed on the recurrent paleobiotopes—paleolithotopes through geologic time and the evolution of community structure. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; GEOL 272, 333, and 430; or permission of the instructor.

#### **GEOL 430 Sedimentary Petrology (4)**

A petrographic approach to the classification and genetic interpretation of sedimentary rocks. Terrigenous sandstones and carbonate rocks will be emphasized with lesser stress on mud rocks and noncarbonate chemical rocks. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; GEOL 252, GEOL 269; or permission of the instructor.

#### **GEOL 434 Geology of the Carolinas (3)**

An examination of the current state of knowledge of the rocks, structures and economic minerals of North and South Carolina and immediately surrounding areas, with an emphasis on environmental concerns. Lectures three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; GEOL 272 and 352; or permission of the instructor.

#### **GEOL 438 Hydrogeology (4)**

An introduction to the historical development, significance and underlying theory of the controls on groundwater movement and geochemical evolution. Emphasis will be placed on analyzing the dynamics of natural flow systems in a variety of geologic terrains. This analysis will then be used to assess water supply and water quality issues for the purposes of decision making. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; MATH 111 or 120; or permission of the instructor.

#### **GEOL 440 Igneous & Metamorphic Petrology (4)**

Description, classification, occurrence and geologic significance of igneous and metamorphic rocks. Emphasis is placed on the mineralogy and physical chemistry of silicate and nonsilicate systems. Laboratory consists of the study of igneous and metamorphic rocks in thin section. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; GEOL 252; or permission of the instructor.

#### **GEOL 441 Aqueous Geochemistry (4)**

Course focuses on a quantitative understanding of the major classes of inorganic geochemical reactions that control the composition of natural and contaminated ground and surface water systems. Laboratory will focus on collection methods for ground and surface water samples, analysis of dissolved solutes and interpretation of water quality data. Lecture three hours per week; laboratory three hours per week.

*Prerequisites:* CHEM 111 and CHEM 112 or GEOL 250; or CHEM 101 and GEOL 250; or the equivalent; or permission of the instructor.

#### **GEOL 442 Geological Application of Remote Sensing (4)**

This course will cover the application of remote sensing to environmental problems. Topics include: remote sensing theory, data collection, reduction and

application, computer software tools, data acquisition and ties to geographic information systems (GIS). This course assumes a basic understanding of remote sensing. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156. Some computer experience is helpful.

#### **GEOL 444 Quantitative Hydrogeology (3)**

A comprehensive survey of the underlying theory and applications of quantitative techniques for assessing groundwater movement, contaminant transport and geochemical evolution. Emphasis will be placed on applied engineering methods for evaluating aquifer properties from well hydraulics, tracer studies and laboratory experimentation. The methods will be employed to make engineering decisions concerning the groundwater resource in client-driven hypothetical and real-world scenarios. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* MATH 220, GEOL 438, or permission of the instructor.

#### **GEOL 449 Geographical Information Systems (4)**

This course will cover spatial data types and quality, data input operations, database management, data analysis, software design concerns and various applications for GIS. Computer-based GIS software (PC) will be used throughout the course. Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* GEOL 101 or 103; GEOL 105 or HONS 155 and 156; or permission of the instructor. Some computer experience is helpful.

#### **GEOL 460L NASA Space Mission Design Leadership Lab (1)**

Lab students lead local teams and work with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisite:* Permission of instructors  
*Co-requisite:* GEOL 260

#### **GEOL 491 Senior Thesis (3)**

This course will normally be conducted during the spring semester of the student's senior year, and consists of conducting, writing and presenting the results of the research project. The results of the student's research must be presented at a scientific forum approved by his or her research advisor.

*Prerequisite:* Permission of the instructor.

#### **GEOL 492 Senior Seminar (1)**

Weekly seminar to be taken during the calendar year in which a geology major is to graduate. The purpose of the course is to prepare the students for a career in geology and to present recent advancements in the field through seminars and discussions. One hour per week.

*Prerequisite:* Senior standing as a geology major.

#### **GEOL 499 Bachelor's Essay (6)**

A year-long research and writing project conducted during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## **German Courses**

#### **GRMN 101 Elementary German (3)**

Introduces the fundamental structures of German with emphasis on acquisition of the basic language skills: reading and listening comprehension and oral and written expression.

*Prerequisite:* GRMN 101 is open only to beginning students of German.

#### **GRMN 101C Elementary German Conversation Supplement (1)**

A one-hour weekly session for intensive listening-speaking practice in German using vocabulary and grammatical structures presented in the corresponding basic course.

*Note:* A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently

enrolled or in conjunction with the corresponding intensive language course (150). Credit may not be applied to fulfill the language requirement nor may it count towards the major.

#### **GRMN 102 Elementary German (3)**

Introduces the fundamental structures of German with emphasis on acquisition of the basic language skills: reading and listening comprehension and oral and written expression.

*Prerequisite:* Placement or GRMN 101.

*Note:* A student having completed GRMN 101 or 102 may not take GRMN 150 for credit.

#### **GRMN 102C Elementary German Conversation Supplement (1)**

A one-hour weekly session for intensive listening-speaking practice in German using vocabulary and grammatical structures presented in the corresponding basic course.

*Note:* A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled or in conjunction with the corresponding intensive language course (150). Credit may not be applied to fulfill the language requirement nor may it count towards the major.

#### **GRMN 113 Language Practicum I (3)**

Intensive Maymester or summer session course designed to develop conversation skills in German through guided activities and practice.

*Note:* This elective course may not be applied to fulfill the language requirement, nor may it count toward the major.

#### **GRMN 150 Intensive Elementary German (6)**

Equivalent to GRMN 101–102. Introduces the fundamental structures of German with emphasis on acquisition of the basic language skills: reading and listening comprehension, and oral and written expression.

*Prerequisite:* This course is open only to beginning students of German.

*Note:* This course covers the materials of GRMN 101–102 in one semester sequence. Classes meet five days a week for a total of six hours of instruction. It is designed for students who seek to accelerate their studies of German.

*Having completed GRMN 101 and/or 102, the student may not take GRMN 150 for credit; conversely, students who complete GRMN 150 may not receive credit for 101 or 102.*

### **GRMN 201 Intermediate German (3)**

Develops a basic proficiency in German and familiarity with German culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or GRMN 102.

*Note: Having completed GRMN 201, the student may not take GRMN 250 for credit.*

### **GRMN 201C Intermediate German Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening and speaking practice in German, utilizing vocabulary and grammatical structures presented in a corresponding basic course.

*Note: "C" course credit may not be applied to fulfill the language requirement nor may it count towards the major.*

### **GRMN 202 Intermediate German (3)**

Develops a basic proficiency in German and familiarity with German culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or GRMN 201.

*Note: Having completed GRMN 202, the student may not take GRMN 250 for credit.*

### **GRMN 202C Intermediate German Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening and speaking practice in German, utilizing vocabulary and grammatical structures presented in a corresponding basic course.

*Note: "C" course credit may not be applied to fulfill the language requirement nor may it count towards the major.*

### **GRMN 213 German Conversational Practicum (3)**

Intensive Maymester or summer session course designed to strengthen communicative skills in German and enhance awareness of German-speaking

cultures. Recommended especially for the students preparing for study abroad.

*Note: This elective course may not count toward the major or minor.*

### **GRMN 250 Intensive Intermediate German (6)**

Equivalent to GRMN 201–202. Develops a basic proficiency in German and familiarity with German culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* GRMN 102 or 150 with a grade of C+ (2.5) or better, or placement via placement exam. Students are advised not to postpone completion of their language requirement until their senior year, since this course might not be available to them.

*Note: This course covers the materials of GRMN 201–202 in one semester. Classes meet five days a week for a total of six hours of instruction. It is designed for students who seek to accelerate their studies of German. Having completed GRMN 201 and/or 202, the student may not take 250 for credit; conversely, students who complete GRMN 250 may not receive credit for GRMN 201 or 202.*

### **GRMN 313 German Conversation (3)**

A course designed to expand oral communication skills. Emphasis is on the development of listening comprehension and oral discourse, but some essays and grammar are also included.

*Prerequisite:* GRMN 202 or 250 or placement.

*Note: Native speakers or students who have already achieved a high level of oral proficiency (to be determined by an oral interview with the instructor) will not be given credit for this course.*

### **GRMN 314 German Composition and Grammar (3)**

This course emphasizes writing on various topics: personal experience, assignments based on readings on culture and literature, etc. An extensive review of grammar is an important component of the course.

*Prerequisite:* GRMN 202 or 250 or placement.

*Note: Native speakers or students who have already achieved a high level of oral proficiency (to be determined by an*

*oral interview with the instructor) will not be given credit for this course.*

### **GRMN 315 Advanced German Reading (3)**

This course enables students to acquire skills needed to read and/or translate German texts. Readings will concentrate on academic, literary, scientific and commercial texts, as well as up-to-date Internet journalism. Texts relating to the academic fields and interests of participants will be incorporated.

*Prerequisites:* GRMN 202, 250, placement, or permission of the instructor.

### **GRMN 320 Special Assignment Abroad (3)**

An internship or other experiential learning project designed to enhance command of German in a German-speaking environment. Assignment to be undertaken and nature of its evaluation to be determined in consultation with the instructor or the director of the German program.

*Prerequisites:* GRMN 202, 250, placement, or permission of the instructor.

### **GRMN 325 German Contemporary Issues (3)**

A course on political, social, cultural, and environmental issues currently confronting Germany, Austria, and Switzerland. Students will read, discuss and write essays on newspaper and magazine articles on contemporary topics. In addition, students will regularly watch and report on German news programs received via satellite television.

### **GRMN 326 German Media (3)**

A course in listening comprehension and reading in the specialized area of the German media, such as television and radio programs, film documentaries, newspapers, magazines and advertising. Extensive use of the Internet will be included.

*Prerequisites:* GRMN 202, 250, placement, or permission of the instructor.

### **GRMN 328 German Language Study Abroad (3)**

Designed to develop confidence in communicative skills and greater facility in dealing with ideas in German through life and study in a German-speaking country.

**GRMN 329 Current Issues in Germany or the German-Speaking World (3)**

A study of the most important current political, socio-economic and cultural issues in the country visited. Information from the communications media (newspapers, magazines, TV, etc.) will be used and discussed whenever possible.

**GRMN 330 Collateral Study (1-3)**

Individually supervised course of reading in German and in the subject area of a concurrent course offered by another department. The nature and extent of readings will be determined in consultation among student, instructor of the primary subject-matter course, and the language instructor who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to a maximum of six credit hours in conjunction with other primary courses.

**GRMN 331 German for Business (3)**

An introduction to the vocabulary and syntax necessary to carry on normal business transactions with German firms. Topics for reading, lectures, written assignments and oral reports will include: the banking system, the role of government and trade unions in German business, the organization of corporations in Germany and cultural matters pertinent to business people.

**GRMN 332 German in International Business (3)**

Students will develop their understanding of doing business in a German-speaking setting. Assignments emphasize the practical application of students' language skills, such as individual and group projects focusing on real-life situations; reading and translating authentic business documents; writing business letters, faxes and memos; and using the Internet.

**GRMN 341 Advanced Grammar and Syntax (3)**

Advanced study of the structure of the German language, including practice with stylistic characteristics of the language as it is written and spoken today.

**GRMN 365 Introduction to Literature (3)**

Designed for those students who have limited awareness of literary genres and concepts, or those whose German is in the intermediate stage. Students read and discuss representative works of prose,

poetry and drama, and learn the basics of German literary history.

**GRMN 390 Special Topics in German (3)**

Intensive study of a particular subject or theme (specific topics will be listed in the Schedule of Courses when offered; e.g., German Poetry, the War Experience).

*Prerequisite:* One 300-level German course, or permission of the instructor.

**GRMN 413 Advanced German Conversation (3)**

Oral communication and presentation at the advanced level, with an emphasis on improving fluency. Introduction of rhetorical strategies. Review of phonetic and syntactic principles (with practice and corrective drill).

*Prerequisite:* One 300-level German course or permission of the instructor.

*Note: Native speakers or students who have already achieved a high level of oral proficiency (to be determined by an oral interview with the instructor) will not be given credit for this course.*

**GRMN 424 German Civilization and Culture (3)**

Study of the cultural history of the German-speaking countries, including intellectual and artistic activity (art, architecture, literature and the performing arts) as well as popular culture (behavior patterns, beliefs and values, social norms).

*Prerequisite:* One 300-level German course or permission of the instructor.

**GRMN 460 German Literary Heritage (3)**

A course focused on acknowledged masterpieces of German literature prior to the 20th century. Students will read and discuss selected literary works and explore their relevance to modern German society. May be repeated under a different topic.

*Prerequisites:* Two 300-level German courses or permission of the instructor.

**GRMN 468 Studies in Modern German Literature (3)**

Study of predominant themes in modern German literature across a variety of literary genres and historical periods. Rotating themes. Topics may include the war experience, women's literature and minority literature. May be repeated under a different topic.

*Prerequisite:* One 300-level German course or permission of the instructor.

**GRMN 472 Studies in German Cinema (3)**

Study of selected classic and cult films of German cinema from its origins to the present. Students will learn about the dominant periods (Expressionism, New German Cinema), national cinema (Nazi film, East German film) and historical contexts for the films shown.

*Prerequisite:* One 300-level German course or permission of the instructor.

**GRMN 490 Special Topics in German (3)**

Intensive studies designed to supplement or to investigate more fully the offerings in the German curriculum. Formulation of the specific subject matter for the course will reflect both student and faculty interest.

**GRMN 496 Directed Reading (1-3)**

Individually supervised reading in German, agreed upon in consultation with the instructor. Credit hours assigned will be determined by nature and extent of reading.

*Prerequisite:* Permission of the instructor.

**GRMN 498 Independent Study (1-3)**

Research on a topic to be defined by the individual in consultation with the instructor who will guide the work and determine the credit hours to be assigned.

*Prerequisite:* Permission of the instructor.

**LTGR 150 German Literature in (English) Translation (3)**

Study of selected works from a number of literary genres that offer different perspectives on the world and humankind.

**LTGR 250 German Literature in (English) Translation (3)**

Study of selected works by a German author or study of a particular aspect of German literature or a literary period such as: The War Experience, Medieval Epics, Masterpieces of German Literature or The German Fairy Tale. May be repeated under a different topic.

*Note: Taught in English. May be taken for credit toward the general education requirement in humanities and for the German studies minor. Does not count*

toward the German major or minor. May be repeated under a different topic.

#### **LTGR 270 Studies in German Film (3)**

An introductory course on German cinema with rotating topics such as Postwar German Cinema and Film Noir.

*Note: Taught in English. May be taken for credit toward the general education requirement in humanities, for the Film studies minor and for the German studies minor. Does not count toward the German major or German minor. May be repeated under a different topic.*

#### **LTGR 450 German Literature in (English) Translation (3)**

A study of selected works by major authors representing different cultures with emphasis on common themes as viewed from the perspectives of these writers.

## **Greek (Ancient) Courses**

#### **GREK 101 Elementary Ancient Greek (3)**

Introduction to the fundamental grammar, syntax, and vocabulary of Ancient Greek with emphasis on reading comprehension.

#### **GREK 102 Elementary Ancient Greek (3)**

Continues the introduction to the fundamental grammar, syntax, and vocabulary of Ancient Greek with emphasis on reading comprehension.

*Prerequisite:* GREK 101

*Note: GREK 102 is a prerequisite for all 200-level Greek courses.*

#### **GREK 201 Intermediate Ancient Greek (3)**

Completes the introduction to Ancient Greek grammar, syntax, and vocabulary while developing fluency in reading comprehension and translation.

*Prerequisites:* GREK 101 and 102.

#### **GREK 202 Attic Greek (3)**

Selected readings from Attic prose or verse.

*Prerequisite:* GREK 201.

#### **GREK 203 New Testament Greek (3)**

Selected readings from the New Testament.

#### **GREK 206 Old Testament Greek (3)**

Selected readings from the Septuagint version of the Old Testament.

#### **GREK 290 Special Topics (3)**

#### **GREK 321 Greek Oratory (3)**

Selected reading from major works of Greek oratory by Demosthenes, Lysias, and/or other authors.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 322 Greek Oratory (3)**

An exploration of Homer's epic poems with readings selected from the Iliad and/or Odyssey.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 323 Greek Historiography (3)**

The style and content of Greek historical literature will be studied through readings from one or more of the major historians.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 324 Greek Comedy (3)**

A study of Greek comedic drama with representative readings from the works of Aristophanes and/or Menander.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 325 Greek Tragedy (3)**

A study of Greek tragic drama with representative readings from the works of Aeschylus, Sophocles and/ or Euripides.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 326 Plato (3)**

Selected readings from one or more of Plato's works.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 330 Collateral Study (1-3)**

Individually supervised course of reading in Greek and in the subject area of a concurrent course offered by another department. The nature and extent of readings will be determined in

consultation among student, instructor of the primary subject-matter course and the language instructor who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to maximum of six credit hours in conjunction with other primary courses.

#### **GREK 371 Readings in Greek Literature: Poetry (3)**

Selected readings from one or more of the genres of Greek poetic literature.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 372 Readings in Greek Literature: Prose (3)**

Selected readings from one or more of the genres of Greek prose literature.

*Prerequisites:* Two 200-level Greek courses.

#### **GREK 390 Special Topics (3)**

#### **GREK 490 Seminar: Special Topics in Ancient Greek (3)**

Intensive studies designed to supplement or to investigate more fully the offerings in the Greek curriculum. Formulation of the specific subject matter for the course will reflect both student and faculty interest.

*Prerequisite:* Permission of the instructor.

#### **GREK 496 Directed Reading (1-3)**

Individually supervised readings in ancient Greek, agreed upon in consultation with the instructor. Credit hours assigned will be determined by the nature and extent of the reading.

*Prerequisite:* Permission of the instructor.

#### **GREK 498 Independent Study (1-3)**

Research on a topic to be defined by the individual student in consultation with the instructor who will direct the project and determine the credit hours to be assigned.

*Prerequisite:* Permission of the instructor.

# Health and Human Performance Courses

## HEAL 215 Introduction to Public Health (3)

This course is designed to introduce the basic tenets, applications, and foci of public health, including integrating public health with other health professions. It will provide a history of public health, an overview of the core disciplines, current events and issues in the field.

## HEAL 216 Personal & Community Health (3)

An overview of the factors that affect one's ability to achieve and obtain optimal health. Emphasis will be on decision making and personal responsibility.

## HEAL 217 Human Sexuality (3)

The format focuses on providing information necessary for establishing a sound knowledge base on topics including sexual anatomy and physiology, birth control, basic psychological concepts of sexuality, sexually transmitted infections, family planning and parenting. The information is presented in relation to the decision-making process as applied to understanding one's own and others' sexuality.

## HEAL 225 Consumer Health Education (3)

An examination of the factors involved in the selection and evaluation of health services and products. Topics will also include quackery, consumer protection laws and organizations, and health insurance considerations.

## HEAL 230 Global Health (3)

This course provides an overview of the determinants that impact health outcomes around the globe. Special attention will be given to continents economically disadvantaged and currently suffering from major pandemics such as HIV/AIDS, TB and Malaria, and from other emerging and re-emerging diseases.

## HEAL 240 Worksite Wellness (3)

The students will learn how to facilitate implementation and evaluation of wellness programs for individuals and worksite locations. An examination of the physical and psychological factors that

affect health throughout the life cycle will be made.

## HEAL 257 Principles of Nutrition (3)

A study of nutrients and current dietary guidelines. The course will include a personal dietary and activities analysis and focus on the relationship of food choices to lifestyle diseases and/or premature death. Emphasis will be on health-oriented decision making and personal responsibility.

## HEAL 317 Sexual Behavior and Relationships (3)

A study of contemporary issues in the field of human sexuality, such as sexual motivation, sexual orientation, sex roles, sexual dysfunction and therapy, the nature of sexual attraction, theories of love, critical factors in the maintenance of intimate relationships and alternative lifestyles.

*Prerequisite:* HEAL 217 or permission of the instructor.

## HEAL 320 Special Topics in Health Education (3, Repeatable up to 12)

Studies in topics of current interest designed to supplement offerings in the department or to investigate an additional specific area of health education. May be repeated for credit with different research topics.

## HEAL 323 Women's Health Issues (3)

The course deals with a wide variety of health issues of concern to women. Major categories of topics include utilization of the health care system, issues of concern to women of diverse backgrounds, normal physiological health and well-being, common physiological and psychological health problems, and cultural as well as societal influences on women's health.

## HEAL 325 Health Promotion (3)

The educational, organizational, economical, and environmental supports for behaviors conducive to health will be examined in the public and private sector. Health promotion will include the assessment, prescription, implementation, and evaluation of programs.

*Prerequisites:* HEAL 216 and junior status (60 hours plus).

## HEAL 325L Field Experience in Health Promotion (1)

Students will be placed within a variety of public health/health promotion settings, including worksite, profit, and non-profit agencies. The theoretical, educational, organizational, economical and environmental supports for behaviors conducive to health in these public and private settings will be examined.

*Prerequisites:* HEAL 215, 257, 395. Junior status or permission of the instructor.

*Co-requisite:* HEAL 325

## HEAL 333 Sports and Exercise Nutrition (3)

This course addresses the main aspects of nutrition as related to exercise and physical performance. Emphasis will be placed on the energy systems in exercise, components of nutrients, assessment of nutritional needs and diet modification for physically active individuals.

*Prerequisite:* BIOL 201 or permission of the instructor.

## HEAL 347 Emergency Preparedness and First Aid (4)

First aid procedures for illness and injury, as well as preparations for emergency situations. Lectures three hours per week; lab three hours per week.

*Prerequisite:* Junior status (60 hours plus).

## HEAL 350 Epidemiology (3)

This course introduces the basic concepts of epidemiology and biostatistics as applied to public health problems. Emphasis is placed on the principles and methods of epidemiologic investigation, appropriate summaries and displays of data, and the use of classical statistical approaches to describe the health of populations.

*Prerequisite:* HEAL 215

## HEAL 390 Chronic and Communicable Diseases (3)

The study of prevalent chronic and communicable diseases and their prevention. The causes, progression, departures from normal body functioning, relationship of disease to functional ability, and preventative and curative aspects of specific diseases will be discussed.

*Prerequisite:* Junior status (60 hours plus).

**HEAL 395 Biostatistics in Health Sciences (3)**

Basic theory of probability and statistics with practical applications using biological data. Subject matter includes fundamentals of probability, distribution theory, sampling models, data analysis, basics of experimental design, statistical inference, interval estimation and hypothesis testing.

*Prerequisites:* MATH 104 and HEAL 215

**HEAL 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior status, plus permission of the tutor and the department chair.

**HEAL 401 Independent Study in Health Education (1-3, Repeatable up to 9)**

Designed to give the candidate individually structured study and experience in fitness, health promotion, public health, employee wellness or other health areas approved by the department.

*Prerequisite:* Permission of department and instructor.

**HEAL 403 Health Internship and Practicum (6)**

Candidates are placed in cooperating local agencies in areas of interest (public health, employee wellness, school health, fitness center, etc.). The field experience is a laboratory class that requires participation in the daily activities of an assigned agency and in on-campus seminars.

*Prerequisites:* A senior physical education major with a minimum GPA of 2.5 overall. In addition, an application must be submitted to the health coordinator at least one year before the semester in which the internship would be taken. The applicant must be approved by the PEHD department. A candidate may not take both PEHD 403 and HEAL 403. (Participation in the field experience requires satisfactory completion of 12 semester hours at or above the 300 level in health and/or physical education-related courses. First Aid and CPR certification, TB test, and Blood Borne Pathogens Management Training may be required depending on the internship site selected.) Students are responsible for their own transportation to offcampus internship sites.

**HEAL 460 Public Health Administration (3)**

This course examines public health as an organized system, pulling together the different areas of study, fields of work and government agencies that facilitate the delivery of public health services on a daily basis. Essential public health principles are discussed in the context of identifying and controlling community health problems.

*Prerequisites:* HEAL 325/325L or Permission of the Instructor

**HEAL 495 Capstone Seminar (1)**

This seminar will use case studies and research articles to apply the competencies and sub-competencies associated with the entry-level CHES certification exam. Students will meet once a week for one hour.

Pre-or co-requisites: HEAL 395 and HEAL 460.

## Hebrew Courses

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**HBRW 101 Elementary Modern Hebrew (4)**

Introduces the fundamental structures of Hebrew with emphasis on acquisition of basic language skills: reading and listening comprehension, and oral and written expression.

*Prerequisite:* HBRW 101 is open only to beginning students of Hebrew.

**HBRW 102 Elementary Modern Hebrew (4)**

Introduces the fundamental structures of Hebrew with emphasis on acquisition of basic language skills: reading and listening comprehension, and oral and written expression.

*Prerequisite:* Placement or HBRW 101.

**HBRW 201 Intermediate Modern Hebrew (4)**

Develops a basic proficiency in Hebrew through practice in the use of basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or HBRW 102.

**HBRW 202 Intermediate Modern Hebrew (4)**

Develops a basic proficiency in Hebrew through practice in the use of basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or HBRW 102.

**HBRW 290 Special Topics: Advanced Hebrew (3)****HBRW 313 Hebrew Conversation and Composition (3)**

Develops an advanced proficiency in modern Hebrew through conversation and composition. Texts will be drawn from contemporary Israeli newspapers, literature, and film.

*Prerequisite:* HBRW 202, or proficiency as demonstrated through placement exam.

**HBRW 314 Hebrew Conversation and Composition (3)**

Develops an advanced proficiency in modern Hebrew through conversation and composition. Texts will be drawn from contemporary Israeli newspapers, literature, and film.

*Prerequisite:* HBRW 313, or proficiency as demonstrated through placement exam.

**HBRW 330 Collateral Study (1-3)**

Individually supervised course of reading in Hebrew and in the subject area of a concurrent course offered by another department. The nature and extent of readings will be determined in consultation among student, instructor of the primary subject-matter course, and the language instructor who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to maximum of six credit hours in conjunction with other primary courses.

**HBRW 390 Special Topics (3)****LTHB 250 Hebrew Literature in (English) Translation (3)**

Study of selected works, representing major literary periods and genres, which illuminate another language and culture or era of a shared human condition.

**LTHB 350 Hebrew Literature in (English) Translation: A Foreign Author (3)**

Study of selected works by an author whose influence is felt in the world at large.

## Hindi Courses

### HNDI 101 Elementary Hindi I (4)

Introduces the fundamental structures of Hindi with emphasis on acquisition of basic language skills: reading/listening comprehension and oral/written expression.

### HNDI 102 Elementary Hindi II (4)

Continuation of HNDI 101. Introduces the fundamental structures of Hindi with emphasis on acquisition of basic language skills: reading/listening comprehension and oral/written expression.

*Prerequisite:* HNDI 101 or placement.

### HNDI 201 Intermediate Hindi I (4)

Develops a basic proficiency in Hindi and familiarity with Indian culture through practice in the use of the basic language skills, acquisition of vocabulary, and familiarity with script.

*Prerequisite:* HNDI 102 or permission of instructor.

### HNDI 202 Intermediate Hindi II (4)

Develops a basic proficiency in Hindi and familiarity with Indian culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* HNDI 201 or permission of instructor.

## Hispanic Studies Courses

### SPAN 101 Beginning Spanish I (3)

Introduces the fundamental structure of Spanish with emphasis on acquisition of the basic language skills: listening, speaking, reading and writing.

*Prerequisite:* Beginning students of Spanish or placement.

### SPAN 101C Beginning Spanish I Conversation Supplement (1)

A one-hour weekly session for intensive listeningspeaking practice in Spanish utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Note:* A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled or in conjunction with the corresponding intensive language course (150). Credit may not be applied to fulfill the language requirement nor may it count towards the major.

### SPAN 102 Beginning Spanish II (3)

Introduces the fundamental structure of Spanish with emphasis on acquisition of the basic language skills: listening, speaking, reading and writing.

*Prerequisite:* SPAN 101 or placement.

### SPAN 102C Beginning Spanish II Conversation Supplement (1)

A one-hour weekly session for intensive listeningspeaking practice in Spanish utilizing vocabulary and grammatical structure presented in the corresponding basic course.

### SPAN 150 Intensive Elementary Spanish (6)

Equivalent to SPAN 101-102. An intensive course that introduces the fundamental structure of Spanish with emphasis on acquisition of the basic language skills: listening, speaking, reading and writing.

*Prerequisite:* Two years of high school Spanish, placement exam, or previous experience with a foreign language.

*Note:* This course covers the material of SPAN 101–102 in one semester. Classes meet five times a week, for a total of six hours of instruction. Having completed SPAN 101 or 102, students may not take 150 for credit; conversely, students who complete SPAN 150 may not receive credit for SPAN 101 or 102.

### SPAN 190 Elementary Spanish I (3)

Designed for students with some prior experience with Spanish, this course aims at building on that foundation, with emphasis on acquisition of the basic language skills: listening, speaking, reading, and writing.

*Prerequisites:* Placement (Entering students with 2-3 years of high school Spanish will be placed in SPAN 190).

### SPAN 190C Elementary Spanish I Conversation Supplement (1)

A one-hour weekly session for intensive listeningspeaking practice in Spanish utilizing vocabulary and grammatical

structure presented in the corresponding basic course.

*Co-requisite:* SPAN 190

*Note:* A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled. Credit may not be applied to fulfill the language requirement nor may it count towards the major..

### SPAN 200 Elementary Spanish II (3)

Continuation of SPAN 190. This course emphasizes acquisition of the basic language skills: listening, speaking, reading, and writing, in preparation for SPAN 202.

*Prerequisite:* SPAN 190.

### SPAN 200C Elementary Spanish II Conversation Supplement (1)

A one-hour weekly session for intensive listeningspeaking practice in Spanish utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Prerequisite:* SPAN 190 or placement.

*Co-requisite:* SPAN 200.

*Note:* A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled. Credit may not be applied to fulfill the language requirement nor may it count towards the major.

### SPAN 201 Beginning Spanish III (3)

Develops a basic proficiency in Spanish and familiarity with Hispanic culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* SPAN 102 or 150 or placement.

### SPAN 201C Beginning Conversation Supplement III (1)

Optional one-hour weekly sessions for intensive listening-speaking practice in Spanish utilizing vocabulary and grammatical structure presented in a corresponding basic course.

*Note:* A "C" course may be taken only in conjunction with a basic sequence course in which the student is currently enrolled. "C" course credit may not be applied to fulfill the language requirement nor may it count in the major.

### SPAN 202 Intermediate Spanish (3)

Develops a basic proficiency in Spanish and familiarity with Hispanic culture

through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* SPAN 201 or placement.

### **SPAN 202C Intermediate Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening-speaking practice in Spanish utilizing vocabulary and grammatical structure presented in a corresponding basic course.

### **SPAN 250 Intensive Intermediate Spanish (6)**

Equivalent to SPAN 201–202. An intensive course that aims to develop a basic proficiency in Spanish and familiarity with Hispanic culture through practice in the use of the basic grammatical structures and acquisition of vocabulary stressing basic language skills.

*Prerequisite:* SPAN 102 or 150 with a grade of "C+" (2.5) or better, or placement via placement exam. Students are advised not to postpone completion of their language requirement until their senior year since this course might not be available to them.

*Note:* This course covers the material of SPAN 201–202 in one semester. Classes meet five times a week, for a total of six hours of instruction. Having completed SPAN 201 or 202, students may not take SPAN 250 for credit; conversely, students who complete SPAN 250 may not receive credit for SPAN 201 or 202.

### **SPAN 275 Spanish Skills Review (3)**

Fundamental review and focus on the listening, speaking, reading, and writing skills necessary to perform in upper level Spanish courses.

*Prerequisite:* SPAN 202 or placement (entering students with 5 years of school Spanish will be placed in SPAN 275).

### **SPAN 312 Spanish as a Heritage Language (3)**

This course addresses the specific needs of U.S. Hispanics who were raised with Spanish-language contact at home, but have no formal education in Spanish. Emphasis is on reading and writing standard Spanish, and dialectical variations found throughout the Spanish-speaking world, including the United States.

*Prerequisite:* Placement exam or strong spoken language background acquired at home, or permission of the instructor. SPAN 312 replaces SPAN 314 in the major and the minor.

### **SPAN 313 Spanish Composition (3)**

Intensive language practice. Emphasis on the development of writing skills focusing on comparison and contrast, expository writing and argumentation. Reading selections and class activities will focus on developing grammar, vocabulary and the use of idiomatic expressions.

*Prerequisite:* SPAN 275, or permission of the instructor.

### **SPAN 314 Spanish Conversation (3)**

Emphasis on the improvement of pronunciation and conversation skills, while developing vocabulary and reviewing grammar. Conversation topics will include a wide range of situations, themes and readings.

*Prerequisite:* SPAN 275, or permission of the instructor.

*Note:* This course is not open to students whose native language is Spanish.

### **SPAN 315 Special Assignment Abroad (3)**

An internship or other experiential learning project designed to enhance command of Spanish in a Spanish-speaking environment. Assignment to be undertaken and nature of its evaluation to be determined in consultation with the instructor or department chair.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 316 Applied Spanish (3)**

A study of Spanish language as relevant to various career areas, such as Spanish for business, medical personnel or law enforcement. Course content will vary from semester to semester and will focus on only one area per semester.

*Prerequisite:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

*Note:* SPAN 316 may be taken only once for credit in the Spanish minor or toward the total hour requirement for graduation.

### **SPAN 317 Introduction to Spanish for Business (3)**

A course to develop communicative skills for doing business in a Spanish-speaking environment. Focus is on practical applications of Spanish to business, including individual and group projects on simulated real-life situations; reading and translating authentic commercial documents; writing business correspondence; the use of e-mail and the Internet in business; and cross-cultural awareness of the Hispanic business world.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 318 Spanish for International Business (3)**

An introduction to the vocabulary, style, and conceptual framework for dealing with speakers of Spanish in international business. Topics include: organization of corporations in Latin America and Spain, corporate finance and the banking system, marketing, import/export firms, the role of government and the informal market in Spanish-speaking countries and cultural matters related to commerce in the Hispanic world.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 320 Introduction to Hispanic Literature (3)**

A preparatory course for students intending to pursue studies in Hispanic literature. Selected readings will provide the basis for stylistic and textual analysis and understanding of the structure of literary works. The historical development of genres and the technical vocabulary necessary for critical analysis also will be included.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

*Note:* This course is a prerequisite for Spanish and Spanish-American 300- and 400-level literature courses.

### **SPAN 322 Civilization and Culture of Spain I (3)**

Course designed to provide an overview and understanding of the culture and heritage of Spain from the prehistory of the Iberian Peninsula to the 18th century. This is achieved through a study of the history, geography, arts, attitudes and

customs. Readings, films, and documentaries, class discussion, and written assignments will relate to chapter themes.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 323 Civilization and Culture of Spain II (3)**

Course designed to provide a greater understanding of the culture and heritage of Spain from the Napoleonic invasion to the present. This is achieved through a study of the history, geography, arts, attitudes and customs. Readings, films and documentaries, class discussion and written assignments will relate to chapter themes.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 326 Latin American Civilization and Culture I (3)**

A study of the social and cultural expressions of Latin America from the pre-Columbian era through the early 19th century, including the independence movements of Brazil, as well as all of Spanish America.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 327 Latin American Civilization Culture II (3)**

A study of the cultural development of Latin America from the middle of the 19th century, including the formation of the new Latin American republics to the most important historical and cultural events of the 20th century. This is achieved through the study of history, geography, art, attitudes and customs.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 328 Spanish Language Study Abroad (3)**

Designed to develop spoken and written communication and facility in expressing ideas in Spanish while studying in a Spanish-speaking country.

*Prerequisite:* SPAN 275 or permission of the instructor.

*Note: Local resources of the foreign country will be used. Students can take*

*this course to satisfy the SPAN 314 requirement.*

### **SPAN 329 Current Issues in Spain or the Spanish-Speaking World (3)**

A study of the most important current political, socio-economic and cultural issues in the country visited. Information from the communications media (newspapers, magazines, TV, etc.) will be used and discussed whenever possible.

*Prerequisite:* SPAN 202 or 250; or permission of the instructor.

### **SPAN 344 Advanced Grammar and Lexicon (3)**

This course is designed to improve the understanding of grammatical concepts and the application of rules to prepare students for advanced-level sentence and discourse structures. It also addresses problematic lexical issues.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 350 Intensive Conversation and Composition (6)**

Equivalent to SPAN 313–314. An intensive course that aims to develop functional fluency in written and spoken Spanish by review of grammatical structures, discussion of selected readings, guided composition and a variety of topics designed for guided oral practice.

*Prerequisite:* SPAN 275 or permission of the instructor.

*Note: This course covers the material of SPAN 313–314 in one semester. Classes meet five times a week, for a total of six hours of instruction. Having completed SPAN 313 or 314, students may not take SPAN 350 for credit; conversely, students who complete SPAN 350 may not receive credit for SPAN 313 or 314. This course is not open to students whose native language is Spanish.*

### **SPAN 361 Survey of Spanish Literature I (3)**

Spanish literature studied from the origins of lyric and epic poetry through the Golden Age.

*Prerequisite:* SPAN 320 or permission of the instructor.

### **SPAN 362 Survey of Spanish Literature II (3)**

A continuation of SPAN 361, from the beginning of the Bourbon reign through contemporary movements.

*Prerequisite:* SPAN 320 or permission of the instructor.

### **SPAN 371 Survey and Spanish-American Literature I (3)**

A study of the literature of Spanish America from the pre-Columbian era to Modernism.

*Prerequisite:* SPAN 320 or permission of the instructor.

### **SPAN 372 Survey of Spanish-American Literature II (3)**

Spanish American literature from Modernism through contemporary movements.

*Prerequisite:* SPAN 320 or permission of the instructor.

### **SPAN 381 Introduction to Spanish Linguistics (3)**

An overview of the study of Spanish linguistics, designed to provide a framework for advanced language studies. Content areas include: language change and variation; the Spanish sound system; Spanish morphology, semantics and syntax; and applied Spanish linguistics.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 382 Speaking Strategies (3)**

Intensive practice of spoken Spanish, with emphasis on the development of linguistic functions and discourse strategies consistent with Intermediate Mid or higher in the ACTFL Proficiency Guidelines. Practice with paired interactions, role-plays, discussions and debates.

*Prerequisites:* SPAN 313, 314 or 312 or 328, or 350 or permission of the instructor.

### **SPAN 390 Special Topics in Spanish (3)**

Intensive study of a particular subject or theme (Specific topics will be listed in the Schedule of Courses when offered; e.g., Studies in Spanish Film and Literature).

*Prerequisite:* See department for specific prerequisites.

**SPAN 400 Service Learning (1-3)**

Learning through active service experiences in Spanish-speaking communities in the greater Charleston area, the United States, or abroad with academic analysis and reflection. It enhances what is taught by extending the learning beyond the classroom and linking the concrete to the abstract. It helps to further develop Spanish communicative competence through authentic communication and negotiation of meaning. Registration and approval of proposal must be done before conducting the service learning component.

*Prerequisites:* SPAN 313 and either SPAN 314, 312, or 328; at least two courses at the 300 or 400 level; interview with instructor.

**SPAN 401 Internship (1-4)**

Practical applications for the integration of research and language skills in work or service areas related to Hispanic Studies, domestic or international. Students identify internship programs or sites; faculty supervisor identifies learning objectives. Course involves designated work at internship site, readings, discussions and a final project.

*Prerequisites:* Declared Spanish major or minor; SPAN 313 and either 314, 312 or 328; at least two additional courses at the 300- or 400- level; acceptance to an internship program or site; interview with and approval of the instructor.

**SPAN 443 Morphology and Syntax (3)**

This course is designed to provide a framework for advanced language studies. Traditional and generative grammar will be discussed and basic tools of analysis such as phrase-structure trees and explicit prose versions of rules for translating and making more precise descriptions of the Spanish grammar will be used.

*Prerequisite:* SPAN 381 or permission of the instructor.

**SPAN 445 Spanish Phonetics and Phonology (3)**

An introduction to the sound system of Spanish and its varieties, designed to provide intensive practice in pronunciation.

*Prerequisite:* SPAN 381 or permission of the instructor.

**SPAN 446 History of the Spanish Language (3)**

The history of the Spanish language from Latin to modern Spanish. Content will focus on the phonological, morphological and syntactic development of the language.

*Prerequisite:* SPAN 381 or permission of the instructor.

**SPAN 447 Spanish Dialectology (3)**

A study of the different regional and social dialects of the Hispanic world. Topics will focus on the linguistic influences and change in the Spanish of Spain, Latin America and the United States. The issues addressed will include phonological, morphological, syntactic and semantic variation in regional and social dialects.

*Prerequisite:* SPAN 381 or permission of the instructor.

**SPAN 448 Spanish Sociolinguistics (3)**

A study of the social issues related to the Spanish language. Topics will include language attitudes, speech patterns, discourse analysis, bilingualism, and language change in Spain, Latin America and the United States.

*Prerequisite:* SPAN 381 or permission of the instructor.

**SPAN 451 18th- and 19th-Century Spanish Literature (3)**

Reading and discussion of selected works in one or more of the following genres: poetry, prose, and theatre. Writers such as Feijóo, Espronceda, El Duque de Rivas, Larra, Zorrilla, Galdós and Pardo Bazán may be included.

*Prerequisites:* SPAN 320 and an additional 300-level literature course; or permission of the instructor.

**SPAN 452 20th-Century Spanish Literature (3)**

A study of the major works in the novel, poetry, and/or essay of the 20th century from the generation of 1898 to the most important contemporary writers, including authors such as Unamuno, Baroja, García Lorca, Machado, Matute, Goytisolo and Marsé.

*Prerequisites:* SPAN 320 and an additional 300- level Spanish literature course; or permission of the instructor.

**SPAN 453 Don Quijote de la Mancha (3)**

A thematic and textual study of Cervantes' masterpiece. Romances of chivalry and epic or humorous poems that influenced Cervantes (such as Amadís, Orlando Furioso and El entremés de los romances) will be examined. Selected traditional and modern critical approaches to this novel will be analyzed.

*Prerequisites:* SPAN 320 and an additional 300- level Spanish literature course; or permission of the instructor.

**SPAN 454 Contemporary Spanish-American Poetry (3)**

Reading and critical analysis of selected Spanish- American poetry from Modernism to the contemporary period. Poets such as Darío, Mistral, Vallejo, Parra, Neruda and Octavio Paz will be studied.

*Prerequisites:* SPAN 320 and an additional 300-level literature course; or permission of the instructor.

**SPAN 455 Contemporary Spanish-American Fiction (3)**

An intensive reading and critical analysis of the novels and short stories of the most important 20th-century Latin American writers. Consideration will be given to Borges, Cortázar, Rulfo, Fuentes and García Márquez, among others.

*Prerequisites:* SPAN 320 and an additional 300-level literature course; or permission of the instructor.

**SPAN 456 Contemporary Spanish-American Theatre (3)**

Reading and discussion of selected works of Spanish-American playwrights of the 20th century. Consideration will be given to authors such as Florencio Sánchez, Virgilio Piñera, Xavier Villaurrutia, René Marqués, Egon Wolff, Griselda Gambaro, Emilio Carballido and Isadora Aguirre.

*Prerequisites:* SPAN 320 and an additional 300-level literature course; or permission of the instructor.

**SPAN 457 Early Colonial Spanish-American Texts (3)**

A critical analysis of representative texts produced in the territory conquered by the Spaniards between 1492 and 1775. The diverse experiences, interests, and

concerns of the various sectors of colonial society and the means chosen to express them will be examined and discussed.

*Prerequisites:* SPAN 320 and an additional 300- level Spanish literature course; or permission of the instructor.

### **SPAN 458 Contemporary Hispanic-Caribbean Theater (3)**

This course will focus on readings and discussions of representative works from Cuba, the Dominican Republic, and Puerto Rico. It will be structured around topics such as: family, racial and social issues, as well as the portrayal of Afro-Caribbean religion, gender, and pop-cultural manifestations.

*Prerequisites:* SPAN 320 and an additional 300- level Spanish literature course; or permission of the instructor.

### **SPAN 459 Chicano/a Literature (3)**

A study of the major literary works of Chicano/a authors beginning in the 1960s to the present. It is structured around topics such as: identity, race, social issues, culture, gender, and the Chicano/a experience. Consideration is given to Rivera, Cisneros, Valdez, and Burciaga, among others.

*Prerequisites:* SPAN 320 and an additional 300-level literature course; or permission of the instructor.

### **SPAN 473 The Golden Age (3)**

A study of the theater, poetry, and novel of the age of Lope de Vega, Calderón de la Barca and Miguel de Cervantes. Content may include such masterworks as *La vida es sueño*, *El burlador de Sevilla*, and poetry of Garcilaso de la Vega, Fray Luis de León, Santa Teresa, Luis de Góngora and Francisco de Quevedo.

*Prerequisites:* SPAN 320 and an additional 300- level Spanish literature course; or permission of the instructor.

### **SPAN 474 Contemporary Spanish Theater (3)**

A study of developments in Spanish theater in the 20th century focusing on a reading and critical analysis of selected works of major playwrights. Works of Benavente, Valle-Inclán, García Lorca, Buero Vallejo, Sastre, Olmo, Rodríguez Buded, Martín Recuerda, Ruibal and Rodríguez Mendez may be included.

*Prerequisites:* SPAN 320 and an additional 300- level Spanish literature course; or permission of the instructor.

### **SPAN 475 Medieval Literature of the Iberian Peninsula (3)**

This course is a re-evaluation of the literature of the Iberian Middle Ages in the light of a new interpretation of the "Renaissance," which includes a continuation of tendencies already present in medieval European literature.

*Prerequisites:* SPAN 320 and an additional 300- level Spanish literature course; or permission of the instructor.

### **SPAN 490 Seminar: Special Topics in Hispanic Literature (3)**

Intensive studies focused on a particular writer, generation of writers or on literary themes. Designed to broaden the offerings in literature courses.

*Prerequisites:* SPAN 320 and an additional 300-level literature course; or permission of the instructor.

### **SPAN 491 Special Topics in Language Studies (3)**

Intensive studies designed to investigate more fully linguistic topics or other subjects related to the study of the Spanish language.

*Prerequisite:* SPAN 381; or permission of the instructor.

### **SPAN 496 Directed Reading (1-3)**

Individually supervised readings in Spanish, agreed upon in consultation with the instructor. Credit hours assigned will be determined by nature and extent of the reading.

*Prerequisites:* One 300-level Spanish class in the field of study and permission of the instructor.

### **SPAN 498 Independent Study (1-3)**

Research on a problem – topic to be defined by the individual student in consultation with the instructor in the department, who will guide the work and determine the credit hours to be assigned.

*Prerequisites:* One 300-level Spanish class in the field of study and permission of the instructor.

### **SPAN 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under close supervision of a tutor from the

department. The student must take the initiative in seeking a tutor to help in both the design and supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.  
*Prerequisite:* one 400-level Spanish class in the field of study and permission of the instructor.

### **LTSP 150 Literature in (English) Translation: Gallery World Literatures (3)**

Study of selected works from a number of literatures that offer different perspectives on the world and humankind.

### **LTSP 250 Literature in (English) Translation: A Foreign Literature (3)**

Study of selected works, representing major literary periods and genres that illuminate another language and culture or era of a shared human condition.

### **LTSP 252 Contemporary Latin American Literature in Translation (3)**

An introductory literature in translation course on major 20th-century Latin American writers. The course will include readings from major writers in several genre and will include Nobel laureates such as Pablo Neruda, Miguel Angel Asturias, Gabriela Mistral, Gabriel García Márquez, and Octavio Paz. The course will also explore the writings of Alejo Carpentier, Jorge Luis Borges, Alfonsina Storni and Julio Cortázar.

### **LTSP 254 Society, History, and Culture in Spanish-American Literature (3)**

Study of 20th-century Spanish-American literature and social orientation. The works selected as representative thematic orientation will be examined as aesthetic categories revealing important aspects of periods of social, historical, and cultural process of the Spanish-American world. Students will have the opportunity to read in English-translated works of such great authors as Gabriel García Márquez, Pablo Neruda, Carlos Fuentes, Rene Marqués, Miguel Angel Asturias, José María Arguedas, Ernesto Cardenal, Nicolás Guillén and others.

### **LTSP 256 The Magic and the Real: Latin American Literature and Film (3)**

An exploration of the literary movement known as Magic Realism. The study of both literary works and feature films will allow the student to explore the common

elements between cinematography and literature and the mechanism by which the literary work is adapted by filmmakers. The analysis of novels and short stories, as well as films, will focus on their aesthetic value as well as historical, political, and social issues, including the role of women as seen in these works.

**LTSP 350 Literature in (English) Translation: A Foreign Author (3)**

Study of selected works by an author whose influence is felt in the world at large.

**LTSP 450 Spanish Literature in (English) Translation: Comparative Literature (3)**

A study of selected works by major authors representing different cultures with emphasis on common themes as viewed from the perspectives of these writers.

**PORT 101 Elementary Portuguese (3)**

Introduces the fundamental structure of Portuguese with emphasis on acquisition of the basic language skills: listening, speaking, reading and writing.

**PORT 101C Elementary Portuguese Conversation Supplement (1)**

A one-hour weekly session for intensive listeningspeaking practice in Portuguese utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Co-requisite:* PORT 101.

*Note: A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled or in conjunction with the corresponding intensive Language course (150). Credit may not be applied to fulfill the language requirement not may it count towards the major.*

**PORT 102 Elementary Portuguese (3)**

Introduces the fundamental structure of Portuguese with emphasis on acquisition of the basic language skills: listening, speaking, reading and writing.

*Prerequisite:* Placement or PORT 101.

**PORT 102C Elementary Portuguese Conversation Supplement (1)**

A one-hour weekly session for intensive listeningspeaking practice in Portuguese utilizing vocabulary and grammatical

structure presented in the corresponding basic course.

*Co-requisite:* PORT 102

*Note: A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled or in conjunction with the corresponding intensive Language course (150). Credit may not be applied to fulfill the language requirement not may it count towards the major.*

**PORT 201 Intermediate Portuguese (3)**

Develops a basic proficiency in Portuguese and familiarity with its culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or PORT 102.

**PORT 201C Intermediate Portuguese Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening-speaking practice in Portuguese utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Co-requisite:* PORT 201.

*Note: A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled or in conjunction with the corresponding intensive Language course (150). Credit may not be applied to fulfill the language requirement not may it count towards the major.*

**PORT 202 Intermediate Portuguese (3)**

Develops a basic proficiency in Portuguese and familiarity with its culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* Placement or PORT 201.

**PORT 202C Intermediate Portuguese Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening-speaking practice in Portuguese utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Co-requisite:* PORT 202.

*Note: A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled or in conjunction with the corresponding intensive Language course (150). Credit may not be applied to fulfill the language requirement not may it count towards the major.*

**PORT 291 Portuguese for Spanish Speakers (3)**

This course introduces the fundamental structures of Portuguese, emphasizing writing and pronunciation while contrasting and comparing Spanish to Portuguese. Students will develop reading comprehension abilities in order to become independent readers while learning relevant cultural aspects of the Portuguese-speaking world.

*Prerequisite:* Spanish native speakers, Spanish majors or minors (or completed 15 or more hours in college-level Spanish) or consent of instructor.

**PORT 291C Portuguese for Spanish Speakers Conversation Supplement (1)**

Optional one-hour weekly sessions for intensive listening-speaking practice in Portuguese utilizing vocabulary and grammatical structure presented in PORT 291.

*Co-requisite:* PORT 291.

*Note: A "C" course may be taken only in conjunction with the basic sequence course in which the student is currently enrolled. Credit may not be applied to fulfill the language requirement.*

**PORT 313 Advanced Portuguese Composition (3)**

Intensive language practice. Emphasis on the development of writing skills, focusing on comparison and contrast, expository writing, and argumentation. Reading selections and class activities will focus on developing grammar, vocabulary, and the use of idiomatic expressions.

*Prerequisite:* PORT 202 or 314, or placement exam, or permission of the instructor.

**PORT 314 Advanced Portuguese Conversation (3)**

Emphasis on the improvement of pronunciation and conversation skills, while developing vocabulary and reviewing grammar. Conversation topics will include a wide range of situations, themes and readings.

*Prerequisite:* PORT 202 or 313, or placement exam, or permission of the instructor.

**PORT 330 Collateral Studies (1-3)**

Individually supervised course of reading in Portuguese and in the subject area or a concurrent course offered by another department. The nature and extent of readings will be determined in

consultation among student, instructor of the primary subjectmatter course, and the language instructor who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated to a maximum of six credit hours in conjunction with other primary courses.

#### **PORT 390 Special Topics in Portuguese (3)**

Intensive study of a particular subject of theme on Portuguese language, linguistics, literature, or culture (specific topics will be listed in the Schedule of Courses when offered). May be repeated under a different topic.

*Prerequisite:* PORT 202 and/or permission of the instructor.

#### **PORT 498 Independent Studies (1-3)**

Research on a topic - to be defined by the individual student in consultation with the instructor in the department who will guide the work and determine the credit hours to be assigned.

*Prerequisite:* Permission of the instructor.

#### **LTPO 150 Portuguese Literature in (English) Translation (3)**

Study of selected works from a number of literatures that offer different perspectives on the world and humankind.

#### **LTPO 250 Portuguese Literature in (English) Translation: A Foreign Literature (3)**

Study of selected works, representing major literary periods and genres, which illuminate Brazilian and Portuguese culture.

#### **LTPO 270 Studies in Brazilian Film (3)**

Study of Brazilian Cinema with rotating topics such as Cinema Novo, women filmmakers, and literary masterpieces adapted to the screen.

*Note: Taught in English. May be taken for credit toward the general education requirement in humanities. May be repeated under a different topic.*

#### **LTPO 280 Studies in Brazilian Civilization and Culture Through Literature (3)**

Reading and discussion of selected literary works with emphasis on their relationship to Brazilian civilization and culture. Through the readings, students will develop an awareness and

understanding of how Brazil's ethnic and social background as well as its thought and customs have contributed to the rich diversity of Brazilian civilization and culture as seen in its literature.

*Note: Taught in English. May be taken for credit toward the general education requirement in humanities.*

#### **LTPO 328 Portuguese Language Study Abroad (3)**

Designed to develop spoken and written communication and facility in expressing ideas in Portuguese while studying in a Portuguese-speaking country.

*Prerequisite:* PORT 202 or 250 or permission of the instructor.

*Note: Local resources of the foreign country will be used.*

#### **LTPO 350 Portuguese Literature in (English) Translation: a Foreign Author (3)**

Study of selected works by a Brazilian author whose influence is felt in the world at large.

#### **LTPO 450 Portuguese Literature in (English) Translation: Comparative Literature (3)**

A study of selected works by major authors representing different cultures with emphasis on common themes as viewed from the perspectives of these writers.

#### **HISP 498 Independent Study (1-3)**

Research on a problem related to Hispanic culture – topic to be defined by the individual student in consultation with the instructor in the department who will guide the work and determine the number of credit hours to be assigned. Does not count toward the major or minor in Spanish. A project proposal must be submitted and approved by the department prior to registration.

*Prerequisite:* Permission of the instructor and departmental approval prior to registration.

#### **HISP 499 Bachelor's Essay (6)**

A year-long research and writing project done in English during the senior year under the close supervision of a tutor. A project proposal must be submitted and approved. Does not count toward the major or minor in Spanish. A proposal must be submitted and approved by the department prior to registration.

*Prerequisite:* Permission of the instructor and departmental approval prior to registration.

## **Historic Preservation and Community Planning Courses**

#### **HPCP 199 Introduction to Historic Preservation (3)**

An introduction to the history and contemporary practice of historic preservation in the U.S. The course includes a survey of the content and context of the heritage to be preserved and examines current preservation practice in preserving buildings, landscapes and material culture. Issues related to archeology, architectural history, social history and community planning will be covered.

#### **HPCP 250 Architectural Drawing And Drafting I (3)**

This course will introduce the student to the basic skills necessary to communicate using two and three-dimensional drafting and freehand drawing. Subjects covered include methods and methodology of proportion, orthographic construction, linear sketching, life drawing, and perspective.

#### **HPCP 251 Architectural Drawing And Drafting II (3)**

This course will allow the student to develop advanced disciplines in two and three dimensional drafting and freehand drawing with focus on new mediums and techniques. These skills are useful to express design concepts to clients or colleagues in the building community. Subjects covered include advanced perspective, shade and shadow, and presentation techniques.

*Prerequisite:* HPCP 250

#### **HPCP 275 History of Land Design (3)**

This course deals with the history of landscape architecture, including urban spaces such as city parks, urban plazas and both formal and vernacular non-urban landscapes. The course will explore the designs and wider meanings of both Western and non-Western

landscapes through human history. This course is cross-listed with ARTH 275.

**HPCP 290 Special Topics in Historic Preservation (3)**

Special topics in historic preservation and community planning includes travel abroad courses. May be repeated for credit with differing topics.

*Prerequisite:* HPCP 199.

**HPCP 298 Autocad and Photoshop for Preservationists**

This course is an introduction to the use of these commonly used digital media for preservation applications. The class will also work on a team based research project specifically geared to demonstrate the capabilities of these tools. No prior experience is required.

**HPCP 299 Preservation Planning Studio (3)**

This course will include case studies and a concentrated study of a local project area. "Tools" to promote revitalization and historic preservation will be discussed. Students will work both individually and in groups and will formulate recommendations for the study area. Charleston area political and preservation organizations will be consulted and research resources in the Charleston community will be utilized.

*Prerequisite:* HPCP 199 or permission of the instructor.

**HPCP 305 Building Pathology (3)**

This course examines the deterioration and failure of buildings and their component systems. To understand system and component failures it is necessary to know the materials and methods used in the construction of historic buildings. The course will introduce these materials and methods to the student.

*Prerequisite:* HPCP 199; HPCP 299 is recommended.

**HPCP 315 Urban Design Studio (3)**

This studio course will focus on a particular local site as a case study in urban design. Physical, economic, sociological and architectural aspects of the area will be analyzed and proposals for future development will be formulated. This course will include field research, drawing, and basic model

building and will include instruction in the areas of design and graphics.

*Prerequisite:* URST 310 or permission of the instructor.

**HPCP 319 Architectural Studio Design (3)**

This will be an introductory studio course in architectural design. The semester will culminate in the design of a house in a historic context. Students will study basics of architectural drawing and representation and will study design fundamentals including spatial sequences, proportions, color theory, structural concepts and architectural precedents and theories. The instructor is an architect.

**HPCP 339 History of American Interiors (3)**

A survey of architectural elements and furnishings within American domestic interiors, 1607–1950. Lectures focus on specific periods including historical overviews, analysis of characteristic features of houses' composition, plans and interior elements (doors, windows, walls, woodwork, floors, ceilings, staircases and fireplaces) and the stylistic evolution of furniture relating to the periods. This course is cross-listed with ARTH 339.

*Prerequisite:* HPCP 199.

**HPCP 340 Special Topics in Historic Preservation (3)**

Studies of specialized topics in historic preservation or community planning. Can include travel courses. May be repeated for credit with differing topics.

*Prerequisites:* HPCP 199, and HPCP 299.

**HPCP 375 Landscape Preservation and Design (3)**

This course is a studio effort to understand and work with the defining elements of important, specific historic and cultural landscapes. It uses a generalist's approach and weaves a consideration of natural systems with human impacts to tell the story of the place and our culture.

**HPCP 410 Internship (1-6)**

Internships are intended to provide the opportunity for the student to apply knowledge and skills learned during a normal course of study to actual situations encountered in work with area arts or preservation organizations.

Interested students should contact the internship director for specific placement opportunities and application information.

**HPCP 415 Senior Seminar (3)**

Capstone course for historic preservation and community planning majors. Seminar topics will be announced.

*Prerequisite:* Senior standing or permission of the instructor.

**HPCP 418 Historic Preservation Law (1)**

This course provides an introduction to Historic Preservation Law. The emphasis will be on the laws and regulations commonly used by consultants and practitioners. Some Case Law will be covered but not to the same extent provided in a course for training preservation attorneys.

*NOTE: This class will only meet for half a semester.*

**HPCP 419 Historic Preservation Economics (1)**

This course provides an introduction to Historic Preservation Economics. The emphasis will be on the aspects of economics commonly used by consultants and practitioners, including topics on heritage tourism, urban economic redevelopment and historic property valuation.

*NOTE: This class will only meet for half a semester.*

**HPCP 420 Preservation Law and Economics (3)**

Introduction to the legal framework of historic preservation, including constitutional law, cultural resources statutes and relevant local laws and mechanisms. Overviews pertinent to economic policies, including tax incentives. Material is targeted toward advocacy, to include property rights and fiscal impact issues. Students will pursue a research/practical project of their choosing.

*Prerequisites:* HPCP 199 and permission of the instructor.

**HPCP 490 Independent Study Historic Preservation (3)**

A qualified student who has taken appropriate preparatory courses in the major determines a project to research and write about in consultation with and under the supervision of a departmental member qualified to guide the work. The

student will be expected to produce a thorough research paper and to make a public presentation at the end of the semester enrolled.

*Prerequisite:* Student must be a junior or senior historic preservation and community planning major with an overall GPA of at least 3.00 and a major GPA of at least 3.3.

## History Courses

### HIST 101 The Rise of European Civilization (3)

A survey of the major developments in European history from antiquity to 1715. The course will examine ideas and events that contributed to the rise of Europe and the political, economic and social institutions which developed in medieval and early modern Europe. Topics will include the Ancient World, the Middle Ages, the Renaissance, the Reformation, the emergence of national monarchies and the Scientific Revolution. HIST 101 is a general education requirement. Neither credit hours nor grades earned in this course count toward the major in history or the GPA in that major. This course must be taken before HIST 102.

### HIST 102 Modern Europe (3)

A survey of European civilization from 1715 to the present. The course will examine the individuals, institutions, and ideas that contributed to the development of modern Europe and to the global spread of western culture. Topics will include the Enlightenment, the French Revolution, the Industrial Revolution, modern ideological movements, the causes and consequences of the world wars and contemporary developments. HIST 102 is a general education requirement. Neither credit hours nor grades earned in this course count toward the major in history or the GPA in that major.

*Prerequisite:* HIST 101 or HONS 120.

### HIST 103 World History to 1500 (3)

An introduction to civilizations and cultures in the Middle East, Africa, Asia, Europe and the Americas and the interactions among them, dealing with themes such as political, economic, social, and intellectual systems, religion, science and technology and increasing global interactions.

*Note: This course must be taken before HIST 104.*

### HIST 104 World History since 1500 (3)

An introduction to civilizations and cultures in the Middle East, Africa, Asia, Europe and the Americas and the interactions among them, dealing with themes such as political, economic, social, and intellectual systems, religion, science and technology and increasing global interactions.

*Prerequisite:* HIST 103.

### HIST 115 Pre-modern History (3)

This course will impart a knowledge of the history of selected human civilizations, societies, and cultures. It will convey an awareness of the historical experience through the study of political, social, cultural, and intellectual aspects. It will cover substantial historical developments and periods during the pre-modern period using a thematic approach.

*Note: Available beginning Fall 2011.*

### HIST 116 Modern History (3)

This course will impart a knowledge of the history of selected human civilizations, societies, and cultures. It will convey an awareness of the historical experience through the study of political, social, cultural, and intellectual aspects. It will cover substantial historical developments and periods during the modern period using a thematic approach.

*Note: Available beginning Fall 2011.*

### HIST 200 Historiography: Methods of Inquiry in History (3)

A critical study of the nature of history, examining the origins of historical writing, the different theories of historical development taken by major philosophers of history, the problems of historical understanding for the would-be historian and examples of the conflict of opinion over the interpretation of major trends and events.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115-116

*Note: Students, and most especially those who anticipate going to graduate school, are encouraged to take HIST 200, which is not included under the areas of distribution.*

### HIST 201 United States to 1865 (3)

A general and thematic study of the culture, society and politics of the United States from colonial origins through the Civil War.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115-116

### HIST 202 United States since 1865 (3)

A general and thematic study of the culture, society and politics of the United States from the Civil War to the present.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115-116

### HIST 210 Special Topics in U.S. History (3)

Introductory examination of a specialized field in the history of the United States. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115-116

### HIST 211 American Urban History (3)

A survey of urban development from colonial times to the present. This course examines urbanization as a city-building process and its impact on American social, political and economic life.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115-116

### HIST 212 American Labor History (3)

The course will offer a survey of the history of American working people from colonial times to the present, with emphasis on workers' responses to industrialization and urbanization and the development of the modern labor movement.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115-116

### HIST 213 American Jewish History: Colonial Times to the Present (3)

A study of the major events and personalities in American Jewish history since colonial settlement; the wave of Jewish immigration and development of the contemporary Jewish community.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115-116

### HIST 214 American Ethnic History: 1607 to the Present (3)

American ethnic adjustments and immigration patterns from colonial times

to the present. Treated are diverse peoples, the frontier, urbanization, antiethnic responses and post-1945 trends of ethnic militancy and societal accommodation.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 215 Native American History (3)**

A chronological survey in Native American History north of Mexico to the 21st century. This course examines the Native American contribution to the history of the continent and exposes students to the ethnohistoric method, an approach designed to study the history of people who have left no written record.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 216 African American History to 1865 (3)**

Beginning with the African background, this course surveys the experience of African Americans from the colonial era through the Civil War. Particular attention will be devoted to the Atlantic slave trade, the North American slave experience, free blacks, abolitionism and the social and political implications of the Civil War as these affected black people.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 217 African American History since 1865 (3)**

This course examines the historical experience of African Americans beginning with the period following the Civil War and continuing until the present time. Among the topics covered are: Reconstruction, blacks in the New South, African American leadership, the impact of the world wars, the consequences of the Great Depression and New Deal and the rise of civil rights activism.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 218 The American West (3)**

The course surveys the History of the American West to the present and examines key historiographical topics in the field including economics developments, urbanization, conservation, and race relations.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 219 Native Americans in Film (3)**

This course will cast a critical look at movie classics dealing with Native Americans. Through reading primary and secondary sources, students will assess the historical accuracy of popular movies such as *The Last of the Mohicans*. They will also develop an understanding of History as a discipline.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 221 Women in the United States (3)**

An examination of the ways in which gender intersects with race, class, ethnicity and region in explaining political, economic, social and cultural developments in the United States. Topics include Native American and African American women, frontier and immigrant women, education, the suffrage campaign, the feminine mystique and the Civil Rights Movement.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 222 History of South Carolina (3)**

South Carolina from the colonial period to the present. Topics discussed include plantation slavery, Southern nationalism, pro-slavery ideology, the nullification crisis, the secessionist movement and the Civil War, the disintegration of slavery and the transition to a free labor economy, regional diversification and the slow process of modernization that continued throughout the 20th century.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 224 History of South to 1865 (3)**

A study of the origins of plantation slavery, the emergence of mature plantation society with a distinctive ideology and culture, the causes of the Civil War and the early stages of emancipation.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 225 History of South since 1865 (3)**

A study of the transition from slave to free-labor society, the emergence of sharecropping, agrarian movements, the rise of segregation, the collapse of the plantation system and the modernization of Southern society since 1940.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 230 Ancient Egypt and Mesopotamia (3)**

A study of the ancient peoples and cultures of the Near East with emphasis on the Egyptians, Sumerians and Babylonians.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 231 Ancient Greece (3)**

Greek civilization from its beginnings to Alexander the Great. Emphasis on political, economic, social and intellectual movements.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 232 Ancient Rome (3)**

Roman history from its beginning until the Age of Constantine. Emphasis on political and social developments in the Republic and the early empire.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 234 Early Middle Ages (3)**

An examination of the way of life and thought in the formation of Western society from A.D. 300 to A.D. 1100. Topics will include the fall of Rome, the rise of Christianity, the Barbarian invasions, Charlemagne, the Vikings and the Investiture Controversy.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 235 High Middle Ages (3)**

An examination of the culture and society of Western Europe in town and countryside during the flowering of the Middle Ages. Topics will include the Crusades, the rise of towns, feudal monarchy, monasteries and cathedrals, the rise of universities and the changing role of laity, women and heretics.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

### **HIST 241 Special Topics in Modern European History (3)**

Introductory examination of major themes in European history since 1500. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 242 History of Modern France (3)**

French Revolution and Napoleon; autocracy, constitutionalism, and revolution, development of the French Empire, establishment of the Third Republic, World War I and World War II, Fourth Republic, DeGaulle and the Fifth Republic.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 244 History of Germany 1866 to Present (3)**

Political and social development of Germany from the eve of unification to the present. Topics include the wars of unification, the rise of Social Democracy, the Bismarkian State, Wilhelmine Society, the Weimar, the Third Reich, the FRG and GDR and the second unification.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 245 Tsarist Russia to 1796 (3)**

Kiev, the Mongol Invasions, and the rise of Muscovy. The development of Russian culture, society, and politics from Ivan the Terrible through the reigns of Peter the Great, with emphasis on the themes of orthodoxy, autocracy and serfdom.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 246 Imperial Russia to 1917 (3)**

Nineteenth-century Russian politics, literature, and society from Catherine the Great to Nicholas and Alexandra, with emphasis on the themes of nationalism, imperialism, populism, socialism and economic backwardness.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 250 Special Topics in Comparative/Transnational History (3)**

Intensive examination of a specific topic. Topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 252 Women in Europe (3)**

An examination of the ideas, institutions, and events in Western civilization that specifically affected women. Lectures and readings will be organized topically rather than geographically or chronologically. Areas to be examined

include religion, education, sex and marriage, the family, work and the feminist and suffragist movements.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 256 History of Science and Technology (3)**

An introduction to the major scientific and technological developments in Western civilization from the ancient world to the present with an emphasis on the development of the scientific method, the Scientific Revolution, the Industrial Revolution and mechanization, and the historical interplay between science, technology, society and thought.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 258 European Jewish History: Medieval to Modern (3)**

Topics include definitions of Jewish culture, medieval Jewish life and thought, early modern Jewish religious movements, modern religious reform, Zionism and the Holocaust.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 261 Special Topics: Modern Asia, Africa, or Latin America (3)**

Introductory examination of historical development in Asia, Africa or Latin America since 1500. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 262 Colonial Latin America (3)**

A survey of Spanish and Portuguese colonial America to 1825. Topics include native populations on the eve of conquest, exploration and conquest by Europeans, the development of multiracial societies, the colonial economies, the institutions of Ibero-American empires, the social, economic and intellectual roots of revolution and independence movements.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 263 Latin America since Independence (3)**

A survey of Spanish and Portuguese America since the wars for independence. Topics include the aftermath of the independence movements, incorporation

into the international economy, changing social organization, race relations, the search for political stability, the role of the military, 20th-century revolutionary movements, intellectual and cultural trends and the debt crisis.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 264 Caribbean to 1800 (3)**

Students will examine the history of the Caribbean from first human settlements to about 1800 AD. Topics include contact and exchange between Amerindians, Europeans and Africans; European colonial empires in the tropics; the rise of the plantation complex and slavery; the culture of slave colonies; and the impact of the American, French and Haitian Revolutions.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 265 Caribbean since 1800 (3)**

Students will examine the history of the Caribbean since 1800. Topics include the abolition of the Atlantic slave trade, and, ultimately, slavery itself by the late 19th century; the economic, social and political adjustments to freedom; Cuban wars for independence; the rise of the U.S. as a regional power; regional problems of development; the Cuban Revolution.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 266 Aztecs, Maya, and Their Ancestors (3)**

This course is a multi-disciplinary approach to the study of Mesoamerica (Mexico and Central America) up to, and including, the arrival of the Spaniards in 1519. Although beginning with the peopling of this hemisphere, the emphasis is on the advanced civilizations of the Olmec, Teotihuacanos, Zapotec, Mixtec, Maya and Aztec.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116 or permission of the instructor.

**HIST 270 Special Topics in Pre-Modern History (3)**

Introductory examination of major themes in history prior to 1500. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 272 Pre-Colonial Africa (3)**

An introduction to the pre-colonial history of sub-Saharan Africa. Special attention will be placed on the growth of Islam in West Africa, the East African city-states and kingdoms and the upheaval in 19th century southern Africa. African slavery and the slave trade also will be considered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 273 Modern Africa (3)**

A history of the development of Africa during the modern period, including European penetration, the colonial era, African resistance and independence and contemporary issues.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 276 Islamic Civilization (3)**

The prophet Muhammad and the rise of Islam, its institutions, doctrines, politics, and cultural achievements. Decline of the Arab Muslim Empire and Caliphate, the Mongol invasions and development of separate Mamluk, Persian and Turkish states.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 277 Modern Middle East (3)**

Tradition, modernization, and change in the contemporary Islamic world. The impact of nationalism, secularism, and Westernization in the Middle East, from the disintegration of the Ottoman Empire and emergence of successor states, to the Arab-Israeli conflict, the oil crisis and Great Power confrontation.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 282 History of China to 1800 (3)**

A general survey of political, economic, social and intellectual developments in China from the earliest times to 1800.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 283 History of Modern China (3)**

A study of Chinese history from 1800 to the present, emphasizing the transformation of the Confucian empire into a modern national state. Topics include imperialism, nationalism,

revolution, communism and the Four Modernizations.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 285 Indian Subcontinent since 1500 (3)**

This survey course will introduce students to the history and culture of the Indian Subcontinent (modern India, Pakistan, Sri Lanka, Nepal, Bhutan and Bangladesh) since 1500. The course will focus on the Mughals, the rise of European powers, the Raj, independence and its aftermath.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 286 History of Japan to 1800 (3)**

A survey of political, economic, and cultural developments in Japan from the earliest times to 1800, with emphasis on the borrowing and adaptation of Chinese culture and the development of a unique Japanese civilization.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 287 History of Modern Japan (3)**

A study of modern Japanese history from 1800 to the present. Topics include the creation of the modern state, Westernization, liberalism, Taisho democracy, militarism, imperialist wars and expansion and postwar transformation.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 291 Disease, Medicine, and History (3)**

An examination of the historical background of medical and health-related issues in their social, cultural and political context. The geographical and chronological focus is Western Europe and the United States from the 18th century to the present.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 292 Disease and Medicine in World History (3)**

The interaction of disease, medicine, and history from the ancient world to the present. Topics will include theories of the nature and etiology of disease in a world historical context, the role of disease as an "actor" on the world

historical stage and efforts of different cultures to combat disease.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

*Note:* 300-level courses require more extensive research and writing skills than 200-level courses.

**HIST 299 The Historian's Craft (3)**

This is a topics-based course in which students deal with different types of historical materials and techniques to develop skills in research, writing, critical thinking, and oral presentation, focused on the discipline of history. Topics will vary and will be selected by the professor.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 301 Colonial America, 1585-1763 (3)**

The European background, the founding of the colonies, the growth of economic, social, and political institutions, the roots of American intellectual development and the colonies within the British imperial system.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 302 Era of the American Revolution, 1763-1800 (3)**

Imperial policy redefined, the ideas and grievances that led to American independence, the problems of the Confederation, the formation of the federal union and the emergence of political parties.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 303 History of the United States: The Young Republic, 1800-1845 (3)**

The origin of American political parties, the War of 1812, nationalism, "The Era of the Common Man," reform movements, Manifest Destiny, slavery and sectionalism.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 304 History of the United States: Civil War and Reconstruction, 1845-1877 (3)**

The growth of sectional antagonisms, the causes of the war, the politicians and military leadership during the war and the Reconstruction period.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 305 History of the United States: the Response to Industrialism, 1877-1918 (3)**

The rise of corporate capitalism, the labor movement, populism, progressivism, urbanization, the new immigration, "Jim Crow" legislation and America's entry into World War I.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 306 History of the United States: Affluence and Adversity, 1918-1945 (3)**

Domestic impact of World War I, Versailles Treaty and League of Nations, the Red Scare, Republican Normalcy, social tensions and cultural conflicts in the 1920s, the Great Depression, Roosevelt and the New Deal and World War II.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 307 History of the United States: Cold War America, 1945 - Present (3)**

The Cold War, McCarthyism, growth of presidential power from Truman to Nixon, social tensions: from civil rights to Black Power, from feminine mystique to women's liberation, the Indochina War, the New Left, the counter-culture, and the New Nixon, Watergate, Ford, Carter, the Reagan/Bush era and the recent past.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 310 Special Topics in U.S. History (3)**

Intensive examination of a specific topic in the history of the United States. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 311 Diplomatic History of the United States, 1776-1898 (3)**

The foundations of American foreign policy, tendencies toward isolation and expansion, disputes with foreign countries and their settlement and the activities of American diplomatic representatives.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 312 Diplomatic History of the United States since 1898 (3)**

The emergence of America as a world power, the persistence of isolationist sentiment, the diplomacy of the world wars and the commitment to the Atlantic Community and the other forms of collective security.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 320 Special Topics in Lowcountry History (3)**

Intensive examination of a specific topic in the history of the Lowcountry (the tidewater and the adjacent islands between Winyah Bay and Florida). The course will consider the European, African and Caribbean components of Lowcountry culture. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116 or permission of the instructor.

**HIST 323 Society and Culture of Early Charleston (3)**

Topics in American social history studied through a focus on society and culture in 18th- and early 19th-century Charleston. Topics include immigrant groups, demography, mortality, economic and social structure, urban and plantation life, slavery, the role of women, education, religion, fine arts, architecture and decorative arts.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116 or permission of the instructor.

**HIST 333 Witches, Saints, and Heretics (3)**

Students will examine the development of Christian ideas of spirituality and heresy with special attention to the outbreak of the European witch-craze and the relationship of witchcraft and heresy. Students will address the questions: Who was a witch, a saint or a heretic? When? And why?

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 334 European Social History to 1800 (3)**

A study of material life, social conditions and elite and popular mentalities in Europe. Specific topics and time period will be designated by the instructor.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 336 Italian Renaissance (3)**

An examination of the cultural, social, and political developments of the Renaissance in Italy and its impact on the rest of Europe. Topics will include the Italian city-states, despots and republics, humanism from Petrarch to Machiavelli, Papal Rome and Renaissance art and architecture.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 337 Age of Reformation (3)**

An examination of Western Europe in the time of the Reformation. Topics will include the background of medieval thought and piety, Northern Humanism, the major Protestant and Catholic Reform movements and the social impact of the Reformation.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 341 Age of Enlightenment and Revolution (3)**

The major social, political and cultural changes in Europe from the death of Louis XIV to the fall of Napoleon. Special emphasis on the intellectual history of the Enlightenment.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 344 Modern European Cultural History (3)**

European high and low culture from Romanticism to Existentialism. Topics include definitions of culture, modernity, bourgeois culture, mass culture and radical critiques of modernity.

*Prerequisite:* Two or more upper-level courses in modern European history or the permission of the instructor.

**HIST 345 Modern German Cultural and Intellectual History (3)**

Intensive examination of a specific topic in Germany's cultural history. Topics include Fin de Siècle Vienna and Berlin, modernism and its discontents, German culture 1870–1945 and Weimar culture. Specific topics and time periods vary each year.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 346 History of the Soviet Union (3)**

An examination of the political, social, and cultural developments in Russia from the eve of the Revolution to the present day. Topics include the Bolshevik Revolution, Lenin and Russian Communism, Stalinization and the Cold War.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 347 Special Topics in Modern European History (3)**

Intensive examination of major themes in European history since 1500. Specific topic will be listed with course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 350 Special Topics in Comparative/Transnational History (3)**

Intensive examination of a specific topic. Topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 354 Tudor England, 1485-1603 (3)**

A survey of political, economic and social developments in England from 1485 to 1603. Areas of concentration will include the Wars of the Roses, the Reformation and the English Renaissance.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 355 Stuart England, 1603-1714 (3)**

A survey of Stuart society and politics. Topics will include major political developments such as the English Civil War, Restoration, and the Glorious Revolution, the philosophical and literary works of Locke, Hobbes, Dryden, and Milton, the relationship between Protestantism and capitalism, the emergence of the modern family and cultural developments in theatre, music and architecture.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 356 Georgian Britain (3)**

A study of the interrelationships of society, politics and culture in 18th-century England.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 357 Victorian Britain (3)**

A social and cultural history of Britain at the peak of its power and influence.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 359 Modern Jewish History: French Revolution to Present (3)**

Developments in Jewish civilization from 1789 to the present. Topics include societal, economic, intellectual, cultural, political and diplomatic developments. Treated in this course are international communities, including Israel, remnant communities in the Arab world, Latin America, North and South Africa, Europe and the United States.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 361 Special Topics in Modern Asia, Africa, or Latin America (3)**

Intensive examination of historical developments in Asia, Africa or Latin America since 1500. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 364 Sugar and Slaves in Colonial Brazil (3)**

Brazilian history from the arrival of the Portuguese in 1500 to independence in the 1820s will be the time frame for this class. Emphasis will be on social aspects, especially slavery and sugar and how this society was linked with the greater Atlantic economy (especially Angola), and the Portuguese Empire.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 365 Modern Brazil (3)**

This course provides an overview of the history of modern Brazil from the beginnings of independence to the 1980s. Major topics will include the Brazilian monarchy and 19th-century society, the first republic, the impact of President Vargas, industrialization, the military and race and other aspects of modern society.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 366 Comparative Slavery in the Americas (3)**

This class is designed to introduce students to some of the complex issues relating to slavery in North and South America, from its introduction until its demise in the 19th century. This will be done by way of a comparative framework, which will examine North and South America, as well as the Caribbean.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 370 Special Topics in Premodern History (3)**

Intensive examination of topics in world history to 1500. Specific topic will be listed with course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 372 North Africa (the Maghrib) since 1800 (3)**

The people of the Maghrib, the era of the Ottoman conquest, European conquest and colonialism, nationalism and current problems in the region, also the Maghribi role in the Organization of African Unity and the Arab League.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 373 West Africa since 1800 (3)**

An advanced course in modern West African history, dealing with both English and French West Africa and following both a thematic and chronological approach.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 377 Iran/Persia: From Cyrus to Ayatollah Khomeini (3)**

A survey of the evolution of Persian religion, culture, society and institutions, from ancient Achaemenid civilization to the release of the American hostages. Topics examined will include Zoroastrianism, Shi'ism, Surfism, Bahaism, nationalism, OPEC, the Shah and the Islamic Revolution.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

**HIST 400 Seminar (3)**

A topical seminar focused around a central historical problem.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116.

#### **HIST 402 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, junior standing, and permission of the instructor and the department chair.

#### **HIST 403 Reading and Independent Study in History (3)**

Designed primarily for the student whose interest has been aroused in a particular topic or field. This independent study may take the direction of producing a research paper, of reading a number of books and discussing them on a regular basis with the professor, or of reading a number of books and writing critical reviews of them, etc. The amount of reading or the nature of the project will be agreed to by the student and the professor.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116 and permission of the instructor and the department chair.

#### **HIST 410 Research Seminar in U.S. History (3)**

A topical seminar focused around a central historical problem in U.S. history with a major research paper required. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, HIST 299, juniors and seniors only, and permission of the instructor and the department chair.

#### **HIST 420 Research Seminar in Lowcountry History (3)**

A topical seminar focused around a central historical problem in the history of the Lowcountry (the tidewater and the adjacent islands between Winyah Bay and Florida). The course will consider the European, African, and Caribbean components of Lowcountry culture. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, HIST 299, juniors and seniors only, and permission of the instructor and the department chair.

#### **HIST 441 Research Seminar in Modern European History (3)**

A topical seminar focused on central historical problems in European history since 1500 with a major research paper required. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, HIST 299, junior or senior standing and permission of the instructor and the department chair.

#### **HIST 450 Research Seminar in Comparative/Transnational History (3)**

Intensive examination of a specific topic. Topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, HIST 299, and at least one 300-level course in History, juniors and seniors only, and permission of the instructor and the department chair.

#### **HIST 461 Research Seminar in Modern Asia, Africa, Latin America (3)**

A topical seminar focused on central historical problems in Asia, Africa, or Latin America since 1500 with a major research paper required. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, junior or senior standing and permission of the instructor and the department chair.

#### **HIST 470 Research Seminar in Premodern History (3)**

Research Seminar in Pre-Modern History to 1500 with a major research paper required. Specific topic will be listed with the course title when offered.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, HIST 299, junior or senior standing and permission of the instructor and the department chair.

#### **HIST 473 Pan Africanism/OAU (3)**

This course will critically examine the cultural and political contexts involved in the unification and homogenization of continental Africans and those of the diaspora, the reasons for the founding of the Pan-African Movement, the convening of the Pan-African Congress of 1900, the significance of the 1945 Manchester Congress and the formation

of the Organization of African Unity (OAU) in 1963 and its contemporary role in the regional unification of the continent.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116 and permission of the instructor and the department chair.

#### **HIST 496 Field Internship (3)**

A field internship is designed to provide the advanced student with the opportunity to pursue a research topic in the context of an experiential learning situation—in a historical organization or foundation in the tri-county area.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, juniors or seniors in good academic standing, and permission of the instructor and the department chair.

#### **HIST 498 Senior Paper (3)**

The senior paper is intended for the exceptional student who has a well-thought-out research topic, and it may be taken only with prior approval of the History department. At least one month before the end of the semester prior to the semester in which the paper is to be written, the student must select a topic and obtain approval of that topic from a professor willing to direct the paper. The student must then petition the department for the right to register for the course and have that petition approved by the department. The senior paper may be directed by any member of the department. Another reader of the department will serve as second reader. A copy of the paper will be kept in the department office.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, HIST 299, junior or senior standing, permission of the instructor, the department chair and the department.

#### **HIST 499 Bachelor's Essay (6)**

Independent research for students who are candidates for departmental honors.

*Prerequisites:* HIST 101–102, HIST 103–104, or HIST 115–116, HIST 299, junior or senior standing, and permission of the instructor, the department chair and the department.

## Honors Courses

### HONS 100 Beyond George Street (1)

A course that welcomes freshmen in the Honors First-Year Learning Community into the honors experience by introducing them to faculty and peers through small-group discussion, one-on-one mentoring, and community engagement. Students explore opportunities and academic interests, ultimately creating the basis for a professional portfolio. Upper-level honors students serve as mentors.

*Required for first semester freshmen in the honors college.*

### HONS 110 Honors Academic Writing (4)

An accelerated introduction to the practices necessary for successful college writing at the quality expected of Honors College students. This course satisfies the requirements for ENGL 110. A student may not receive credit for both HONS 110 and ENGL 110. Taken during student's first year. A grade of "C" or better required to fulfill the General Education requirement.

### HONS 115 Honors Calculus (4)

The core of the course will be single-variable calculus. Applications in various areas will be emphasized. Applies toward the general education requirement in mathematics or logic.

*Note: Students may not receive credit toward graduation for more than one of MATH 105, MATH 120, and HONS 115.*

### HONS 120 Honors Colloquium in Western Civilization (6)

This first semester of a year-long colloquium is an intensive interdisciplinary study which relates the arts, literature and philosophy of the Western world to their political, social and economic contexts. Examines the development of Western civilization from its origins in the ancient Near East through the Renaissance and Reformation.

### HONS 130 Honors Colloquium in Western Civilization (6)

This second semester of a year-long colloquium is an intensive interdisciplinary study which relates the arts, literature and philosophy of the Western world to their political, social

and economic contexts. This class examines developments from the scientific revolution to the contemporary world.

*Note: HONS 120 and 130 together satisfy the general education requirement in history; each also counts three hours toward the satisfaction of the general education requirement in humanities. HONS 120 replaces the requirement for HIST 101 and HONS 130 replaces HIST 102.*

### HONS 151 HONORS BIOLOGY I (3)

*Co-requisite: HONS 151L.*

### HONS 151L LAB (1)

*Co-requisite: HONS 151.*

### HONS 152 HONORS BIOLOGY II (3)

*Co-requisite: HONS 152L.*

### HONS 152L LAB (1)

*Co-requisites: HONS 152.*

*Note: Completion of HONS 151 and 152, with labs, satisfies the general education requirement in natural science.*

### HONS 153 HONORS CHEMISTRY I (3)

*Co-requisite: HONS 153L.*

### HONS 153L LAB (1)

*Co-requisite: HONS 153.*

### HONS 154 HONORS CHEMISTRY II (3)

*Co-requisite: HONS 154L.*

### HONS 154L HONORS CHEMISTRY II LAB (1)

*Co-requisite: HONS 154.*

*Note: Completion of HONS 153 and 154, with labs, satisfies the general education requirement in natural science.*

### HONS 155 HONORS GEOLOGY I (3)

*Co-requisite: HONS 155L.*

### HONS 155L HONORS GEOLOGY I LAB (1)

*Co-requisite: HONS 155.*

### HONS 156 HONORS GEOLOGY II (3)

*Co-requisite: HONS 156L.*

### HONS 156L HONORS GEOLOGY II LAB (1)

*Co-requisite: HONS 156.*

*Note: Completion of HONS 155 and 156, with labs, satisfies the general education requirement in natural science.*

### HONS 157 HONORS PHYSICS I (3)

*Co-requisite: HONS 157L.*

### HONS 157L HONORS PHYSICS I LAB (1)

*Co-requisite: HONS 157.*

### HONS 158 HONORS PHYSICS II (3)

*Co-requisite: HONS 158L.*

### HONS 158L HONORS PHYSICS II LAB (1)

*Co-requisite: HONS 158.*

*Note: Completion of HONS 157 and 158, with labs, satisfies the general education requirement in natural science.*

### HONS 159 Honors Astronomy I (3)

An introduction to astronomy. (This course is the Honors College equivalent of ASTR 129.) Topics considered include a brief history of astronomy, coordinates, time, the earth's structure and motion, astronomical instrumentation, the moon, eclipses, comets, meteors, interplanetary medium, stars, star clusters, interstellar matter, galaxies and cosmology.

*Prerequisite:* This course assumes a working knowledge of algebra and trigonometry.

*Co-requisite: HONS 159L*

### HONS 159L Honors Astronomy I Lab (1)

A laboratory program to accompany Honors Astronomy I.

*Prerequisite:* This course assumes a working knowledge of algebra and trigonometry.

*Co-requisite: HONS 159*

### HONS 160 Honors Astronomy II (3)

A continuation of HONS 159 Honors Astronomy I. (This course is the Honors College equivalent of ASTR 130).

*Prerequisites:* HONS 159 and HONS 159L. This course assumes a working knowledge of algebra and trigonometry.

*Co-requisite: HONS 160L*

### HONS 160L Honors Astronomy II Lab (1)

A laboratory program to accompany Honors Astronomy II.

*Prerequisites:* HONS 159 and HONS 159L. This course assumes a working knowledge of algebra and trigonometry.

*Co-requisite: HONS 160*

*Note: Completion of HONS 159 and 160, with labs, satisfies the general education requirement in natural science.*

### **HONS 163 Honors Psychology (3)**

This course will highlight the methods and procedures that psychologists use to understand the complexity of human behavior. Because psychology has grown to include numerous and vastly different domains, the course is team taught so that the students may gain a broader appreciation of psychology from two professors with differing laboratory approaches to the study of behavior.

*Note: Applies toward the general education requirement in social science. This course may not be taken for credit if credit has been received for PSYC 103.*

### **HONS 165 Honors American Government (3)**

This is the Honors equivalent of POLS 101. The course investigates national American government at all levels including its functions and challenges.

### **HONS 166 Honors World Politics (3)**

This is the Honors equivalent of POLS 103. The course takes an in-depth look at international politics and affairs. Topics include the nature of the state system, globalization, international cooperation and conflict and human rights.

### **HONS 167 Introduction to Sociology (3)**

Have you ever wondered why people behave the way they do? In this class you will gain a scientific understanding of the social world by observing human behavior, including culture, socialization, social inequality, and more, through the window of the sociological perspective—the deeper understanding of how society affects you and how you affect society.

### **HONS 170 Honors Intro to Philosophy (3)**

An examination of problems in central areas of philosophy, including metaphysics, epistemology and ethics.

*Note: Applies toward the general education requirement in humanities. This course may not be taken for credit if credit has been received for PHIL 101 or 102.*

### **HONS 175 Approaches to Religion (3)**

An introduction to the comparative study of world religions using a thematic approach in at least three traditions,

combined with a specific theoretical analysis of the theme.

*Note: Applies toward the general education requirement in humanities. This course may not be taken for credit if credit has been received for RELS 101.*

### **HONS 180 Honors Business and Consumer Ethics (3)**

This is the Honors equivalent of PHIL 175. It is designed to introduce the student to the ethical issues of the marketplace.

### **HONS 191 Honors Chemical Principles: Atoms to Molecules (3)**

Introductory chemistry course presenting theoretical principles and fundamental facts for understanding chemical compounds starting with the atom, building to molecules.

*Prerequisite:* MATH 111.

*Co-requisite:* HONS 191L.

### **HONS 191L Honors Chemical Principles Laboratory: Investigations of Atomic and Molecular Theory (1)**

Introductory chemistry laboratory course presenting practical applications related to concepts from lecture. This course stresses student development of proper technique, application of scientific method, data analysis, and reporting of scientific data. Formal 1-2 page reports required for experiments.

*Prerequisite:* MATH 111.

*Co-requisite:* HONS 191.

*NOTE: This course is designed for Honors College students with a rigorous high school chemistry background and non-Honors College students (upon approval by the Honors College) with AP Chemistry placement scores of 3 or higher.*

### **HONS 192 Honors Organic Chemistry: Applications of Molecular Structure and Properties (3)**

An introductory course utilizing theoretical principles and fundamental facts to form an understanding of the structure, characterization, properties and reactivities of organic compounds. Functional groups, fundamentals of reaction mechanisms, and spectroscopy are included.

*Prerequisites:* HONS 191 and 191L with a grade of D+ or higher.

*Co-requisite:* HONS 192L.

MATH 120 is recommended as a pre-or co-requisite.

### **HONS 192L Honors Organic Chemistry Laboratory: Purification, Separation and Characterization of Organic Compounds (1)**

An introductory course presenting practical applications related to concepts from lecture. This course stresses the student development of proper technique, application of scientific method, data analysis, and reporting of scientific data. The formal reports for each experiment will be 1-2 pages each.

*Prerequisites:* HONS 191 and 191L with a grade of D+ or higher.

*Co-requisite:* HONS 192.

MATH 120 is recommended as a pre-or co-requisite.

### **HONS 200 Honors Economics I (3)**

Macroeconomics and microeconomics courses that introduce the principles of economics and the history of the development of these principles.

*Prerequisite or co-requisite:* MATH 120 or its equivalent.

### **HONS 210 Honors Business Law (3)**

This is the Honors equivalent of BLAW 205. It is designed to introduce the student to the legal, ethical and regulatory environment of business. Students will focus on the laws of contract, property and torts once a foundation of the legal system is established. Analysis of ethical considerations in a business environment will strengthen the student's ability to make critical decisions in the strategic arena of business.

### **HONS 211 Honors Economics II (3)**

Macroeconomics and microeconomics courses that introduce the principles of economics and the history of the development of these principles.

*Prerequisite:* HONS 200 or its equivalent.

### **HONS 214 Honors Business Statistics (3)**

Advanced statistical analysis with applications in business and economics utilizing relevant computer software. Topics include business applications in descriptive and inferential statistics emphasizing such topics as simple and multiple regression, analysis of variance, hypothesis testing, quality control,

decision making using software and non-parametric techniques.

#### **HONS 215 Honors Calculus II (4)**

A second calculus course especially designed for students with advanced placement credit for MATH 120. The course will cover the material of MATH 220, plus additional material to be determined in part by the backgrounds, interests and abilities of the students in the course.

*Prerequisite:* Advanced placement credit for MATH 120 or permission of the instructor.

*Note: Students may not receive credit toward graduation for both MATH 220 and HONS 215.*

#### **HONS 220 Honors Colloquium in the Social Sciences (3-6)**

An examination of the social sciences from their origins in the 17th and 18th centuries through their development in modern times as independent disciplines. Readings cover both theory and current practice.

*Note: Applies toward the general education requirement in social science.*

#### **HONS 230 Honors Colloquium: The Elements of Human Culture (3-6)**

An interdisciplinary study of literature, philosophy and fine arts as shaping forces for individuals and for society.

*Note: Applies toward the general education requirement in humanities.*

#### **HONS 240 Honors Colloquium: Value and Tradition in the Nonwestern World (3-6)**

This seminar is intended to introduce students to non-Western cultures.

#### **HONS 245 Honors Colloquium in the History and Philosophy of Science (3)**

This lecture/discussion course is a study of the evolution of scientific ideas from the intuitive insights of early cultures through modern analytic and experimental investigation.

#### **HONS 246 Honors Colloquium in the History and Philosophy of Science (3)**

This lecture/discussion course is a study of the evolution of scientific ideas from the intuitive insights of early cultures through modern analytic and experimental investigation.

#### **HONS 280 Honors Special Topics Course (1-4)**

An introductory or intermediate Honors course on a special topic not in the Humanities or Social Sciences. Topics will be proposed by faculty based on their particular expertise and interests and approved by the Honors College Committee. Repeatable up to 12 hours.

*Prerequisites:* Being a member of the Honors College or, on a space available basis, with the consent of the instructor and Dean of the Honors College.

#### **HONS 281 Special Topics in the Humanities (1-4)**

An introductory or intermediate Honors course on a special topic in the Humanities. Topics will be proposed by faculty based on their particular expertise and interests and approved by the Honors College Committee. Applies toward general education requirements in Humanities. Repeatable up to 12 hours.

*Prerequisites:* Being a member of the Honors College or, on a space available basis, with the consent of the instructor and Dean of the Honors College.

#### **HONS 282 Special Topics in the Social Sciences (1-4)**

An introductory or intermediate Honors course on a special topic in the Social Sciences. Topics will be proposed by faculty based on their particular expertise and interests and approved by the Honors College Committee. Applies toward general education requirements in social science. Repeatable up to 12 hours.

*Prerequisites:* Being a member of the Honors College or, on a space available basis, with the consent of the instructor and Dean of the Honors College.

#### **HONS 293 Honors Organic Chemistry: Reactions and Applications of Organic Compounds in Materials Science and Biology (3)**

This course provides qualitative introduction to concepts of kinetic and thermodynamic control of the reactions of organic compounds.

*Prerequisites:* HONS 192 and 192L with a grade of D+ or higher and MATH 120,

*Co-requisites:* HONS 293L, MATH 220 is recommended.

*NOTE: Students who fail HONS 192 or 192L should take CHEM 112/112L as needed and then take the CHEM 231/232 sequence.*

#### **HONS 293L Honors Organic Chemistry Laboratory: Reactions and Applications of Organic Compounds in Materials Science and Biology (1)**

An introductory laboratory course presenting practical applications related to concepts from lecture. This course stresses the student use of proper technique, application of scientific method, data analysis, and reporting of scientific data. The formal reports for each experiment will be one-two pages each.

*Prerequisites:* HONS 192/192L with a grade of D+ or higher and MATH 120.

*Co-requisites:* HONS 293, MATH 220 is recommended.

*NOTE: Students who fail HONS 192 or 192L should take CHEM 112/112L as needed and then take the CHEM 231/232 sequence.*

#### **HONS 294 Honors Chemical Principles: Mathematical Treatment of Equilibrium and Kinetics, Introduction to Nuclear Chemistry (3)**

This course provides quantitative/mathematical understanding of kinetics and thermodynamics describing chemical reactions, including mathematical applications and problem solving skills related to theories necessary to understand the central role of chemistry for all molecular sciences. MATH 220 is strongly recommended as a co-or pre-requisite.

*Co-requisite:* HONS 294L

*NOTE: Students who fail either HONS 293 or HONS 293L will be encouraged to take CHEM 112/112L in place of the HONS 294/294L sequence.*

#### **HONS 294L Honors Chemical Principles Laboratory: Mathematical Treatment of Equilibrium and Kinetics, Introduction to Nuclear Chemistry (1)**

This course provides quantitative/mathematical understanding of kinetics and thermodynamics describing chemical reactions, including mathematical applications and problem solving skills related to theories necessary to understand the central role of chemistry for all molecular sciences. MATH 220 is strongly recommended as a co-or pre-requisite.

*Co-requisite:* HONS 294

*NOTE: Students who fail either HONS 293 or HONS 293L will be encouraged to take CHEM 112/112L in place of the HONS 294/294L sequence.*

**HONS 380 Interdisciplinary Special Topics (3-6)**

An Honors course on an interdisciplinary topic, not in the Humanities or Social Sciences. Topics will be proposed by faculty based on their particular expertise and interests and approved by the Honors College Committee. Repeatable up to 12 hours.

*Prerequisites:* Junior standing and HONS 120 or consent of instructor and Dean of the Honors College.

**HONS 381 Interdisciplinary Special Topics in the Humanities (3-6)**

An Honors course on an interdisciplinary topic in the Humanities. Topics will be proposed by faculty based on their particular expertise and interests and approved by the Honors College Committee. Applies toward general education requirements in Humanities. Repeatable up to 12 hours.

*Prerequisites:* Junior standing and HONS 120 or consent of instructor and Dean of the Honors College.

**HONS 382 Interdisciplinary Special Topics in the Social Sciences (3-6)**

An Honors course on an interdisciplinary topic in the Social Sciences. Topics will be proposed by faculty based on their particular expertise and interests and approved by the Honors College Committee. Applied toward general education requirements in Social Science. Repeatable up to 12 hours.

*Prerequisites:* Junior standing and HONS 120 or consent of instructor and Dean of the Honors College.

**HONS 390 Special Topics (3-6)**

An honors course on a special topic to be determined by faculty and student interest.

**HONS 391 Special Topics in Humanities (3)**

An honors course on a special topic in the humanities to be determined by faculty and student interest. Applies toward the general education requirement in humanities.

**HONS 392 Special Topics in Social Sciences (3-6)**

An honors course on a special topic in the social sciences to be determined by faculty and student interest. Applies toward the general education requirement in social science.

**HONS 394 Honors Research Methods (3)**

In this course, students will use qualitative and quantitative methods in research. By the end of this course, students will be able to apply research methods for (1) understanding and articulating assumptions about the business world; and (2) helping to develop basic knowledge of the principal techniques in research.

*Prerequisites:* HONS 214 and junior standing.

**HONS 395 Scholarly Off-Campus Project (3 Minimum)**

Honors College students are encouraged to engage in scholarly projects off campus; e.g., study abroad, exchanges with other honors programs, internships, etc. Such projects are normally conceived by the student and worked out in detail with the student's advisor or tutor with the assistance of the Honors College dean. Projects will be approved and evaluated for credit by the Honors College committee.

**HONS 398 Honors Independent Study (1-3, Repeatable up to 6)**

Individually supervised reading and/or research on a topic or project agreed upon by student and supervisor. The amount of reading or the nature of the project will determine the credit to be assigned.

**HONS 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisite:* Junior standing plus permission of the tutor.

**HONS 490 Senior Honors Seminar (3)**

Honors students working on bachelor's essays meet in a weekly seminar that provides an opportunity for all senior Honors College students to work together. Topics will vary according to student and faculty interest and will emphasize the common ground of intellectual endeavor.

**HONS 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project

proposal must be submitted in writing and approved by the Honors College committee prior to registration for the course.

## Hospitality and Tourism Management Courses

**HTMT 210 Principles and Practices in Hospitality & Tourism (3)**

An overview of the hospitality and tourism field including its historical development, major components, functions and current and future trends. Does not count toward major GPA except in HTMT major and/or concentration.

**HTMT 260 Special Topics in Hospitality & Tourism (1-3)**

An in-depth treatment of a current area of special concern within the field of hospitality and tourism.

**HTMT 350 Hospitality & Tourism Marketing (3)**

This course examines how leading hospitality and tourism enterprises apply marketing principles to create and retain customers. Special attention is given to the timing, packaging, pricing, channels of distribution, advertising and personal selling functions of destination-marketing organizations and convention and meeting facilities.

*Prerequisites:* Junior standing; HTMT 210, MKTG 302, ECON 200, 201.

**HTMT 351 Hotel Management (3)**

This course examines hotel management issues emphasizing general management, service, sales, forecasting, financial aspects, rate efficiencies, labor management and guest relations.

*Prerequisites:* Junior standing; HTMT 210 or permission of the instructor.

**HTMT 352 Service Operations Management (3)**

This course focuses on the socio-technical systems of hospitality operations. Through cases, role-playing and computer simulations, students will be exposed to a variety of human relations skills (i.e., communications, negotiating and personal selling) as well as technical skills (i.e., yield

management, CRS) required to manage successful "hi-tech hi-touch" businesses.

*Prerequisites:* Junior standing; HTMT 210 or permission of the instructor.

### **HTMT 353 Hospitality Sales & Negotiations (3)**

Theory and practice of personal selling as used by hospitality and tourism organizations to develop long-term partnerships with customers with emphasis on marketing, planning, communications, presentation and negotiation skills.

*Prerequisites:* Junior standing; HTMT 350 or MKTG 302.

### **HTMT 354 Hospitality and Tourism Technology (3)**

This course examines theories and current trends in Internet marketing and information technology and teaches analytical skills with information systems, online marketing and social media management in the hospitality and tourism industry. It exposes the students to the dynamics of technological changes and how it significantly transforms this industry.

*Prerequisite:* Junior standing.

### **HTMT 360 Special Topics in Hospitality & Tourism (1-3)**

In-depth treatment of current areas of special concern within the field of business administration. A maximum of six hours of special topics courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; other prerequisites depending on topic.

### **HTMT 361 Meetings and Convention Management (3)**

This course is intended to serve as a comprehensive overview of the Meetings, Exhibitions, Events and Conventions (MEEC) industry. Learners will achieve a macro working knowledge of MEEC industry principles, practices, operations and management. Emphasis will be placed on both the supply and demand components of MEEC.

*Prerequisites:* Junior standing; HTMT 210 or permission of the instructor; ACCT 203.

### **HTMT 362 Events Management (3)**

This course focuses on the cultural origins and significance of celebration within society; an introduction to management of special events and festivals from initial planning through delivery; questions of event feasibility; costing and financial management; assessing and meeting communication objectives; merchandising and marketing; staffing and task analysis; safety and security; debriefing and evaluation.

*Prerequisites:* Junior standing; ACCT 203; HTMT 210 or ARTM 200; or permission of the instructor.

### **HTMT 370 Foodservice Enterprise: Design & Development (3)**

This course explores conceptualization, design, and development of an independent foodservice enterprise. Responsible practice, current trends in menu design - theory, historical perspectives and sociological impact, recipe development strategies, beverage programs, sanitation, interior layout and flow, equipment alternatives, and technological opportunities are examined.

*Prerequisites:* HTMT 210 and junior or senior standing.

### **HTMT 372 Foodservice Operations Analysis (3)**

This course investigates the distinctive operational foodservice setting in which both production and selling of perishable food and beverage products occurs concurrently. Students analyze and process internal systems for monitoring food and beverage revenue and expense, menu item sales mix, pricing strategies, purchasing policies, inventory control, and employee development.

*Prerequisites:* HTMT 210 and junior or senior standing.

### **HTMT 399 TUTORIAL (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week). The student must take the initiative in seeking a tutor to help in the design and supervision of the project. A maximum of six hours of tutorial courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; permission of the tutor and the chair.

### **HTMT 420 Independent Study (3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed. A maximum of six hours of independent study courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; written agreement with instructor and chair.

### **HTMT 444 Hospitality Management Internship (3)**

A complementary source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved hospitality partner, the university and the student. The overall unique learning experience will be guided by a Learning Contract, outlining specific work-related experiences and academic components designed to enhance the student's knowledge. Finally, a series of regularly scheduled reflection and learning sessions conducted by faculty with support of industry leaders will be required. A maximum of three (3) hours of internship credit will be awarded.

*Prerequisites:* Senior status and declared major in hospitality and tourism management or permission of the instructor.

### **HTMT 488 Strategic Hospitality and Tourism Management (3)**

This course is the capstone course for the HTM program. The course involves the integration and application of interdisciplinary management concepts, theories, and practices instrumental to management success within the hospitality and tourism industry.

*Prerequisites:* Senior status; ACCT 203, ACCT 204, DSCI 232, ECON 200, ECON 201, MGMT 301, MKTG 302, FINC 303, HTMT 210, HTMT 352; BLAW 205 and DSCI 320 are both recommended.

### **HTMT 499 Bachelor's Essay (6)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the school. The student must take the initiative in seeking a tutor to help in both

the design and the supervision of the project. A project proposal must be submitted in writing and approved by the school prior to registration for the course.

*Prerequisite:* Senior standing.

## International Business Courses

### INTB 260 Special Topics in International Business (1-3)

An in-depth treatment of a current area of special concern within the field of international business.

*Prerequisite:* Sophomore standing or permission of instructor.

### INTB 313 Global Commerce and Enterprise (3)

This course is an in-depth exploration of global commerce and the specific mechanisms and tools used in global enterprise. Students will learn principles and practices of trade and how to identify and analyze trade data, trade opportunities, and challenges. The focus is on how to take a firm global.

*Prerequisite:* Junior standing.

### INTB 314 Global Operations & Technology Management (3)

This course teaches students how to use new technologies to manage the business enterprise and the global supply chain for competitive advantage. The course integrates the control of manufacturing and service operations utilizing emerging technologies to optimize business process and supply chains. Students use a variety of software packages to solve business problems. In addition, the latest theories of technology and knowledge management are used to place technological innovation in a strategic and global perspective.

*Prerequisites:* Junior standing; DSCI 232, MGMT 301, MATH 104 or 250, MATH 105 or 120.

### INTB 322 International Business (3)

A study of the environment and operations of international business with emphasis on the nature and scope of international business, the framework of international trade transactions, the nation-state and international business,

assessing national environments and managing the multinational enterprise.

*Prerequisites:* ECON 200 and 201, junior standing.

### INTB 360 Special Topics in International Business (1-3)

An in-depth treatment of a current area of special concern within the field of international business.

*Prerequisite:* Junior standing.

### INTB 409 Global Strategic Management (3)

In this course, students will learn about competing in the global economy. They will be exposed to different corporate structures, philosophies, and business methods existing in both developed and underdeveloped countries. Students, working in teams of two or three, will analyze case studies and identify strengths and weaknesses of various companies. Having completed their analysis, students will then suggest policies to solve company problems or take advantage of promising opportunities.

*Prerequisites:* ACCT 203, 204, DSCI 232, ECON 200, 201, FINC 303, INTB 314, MGMT 301, MKTG 302, 326, MATH 104 and 105; senior standing.

## International Studies Courses

### INTL 100 Introduction to International Studies (3)

This course introduces a base of knowledge, analytical skills, and a vocabulary of concepts useful for understanding the multi-dimensional concerns of International Studies. Through an examination of international politics, economics, society, history, literature, and environment, this course will enhance the student's appreciation for an International Studies approach to issues associated with global development.

### INTL 290 Special Topics in International Studies (3)

Basic introductory examination of a specialized topic in International Studies. Specific topic will be listed with the course title when offered.

### INTL 300 Comparative Methodology in International Studies (1)

This course is designed to give International Studies majors a formal base in international comparative methodology and provide a means for weaving together the various disciplinary perspectives encountered in the multidisciplinary IS curriculum.

### INTL 390 Special Topics in International Studies (3)

Intensive examination of a specialized topic in International Studies. Specific topic will be listed with the course title when offered.

### INTL 400 Independent Study in International Studies (1-3)

This course is designed for the student seeking to do specialized reading and/or research in a topic in International Studies.

### INTL 401 Internship in International Studies (1-4)

An opportunity for students to gain practical experience through supervised field placement in projects related to International Studies. Placement may be made in a non-US location or in the US in an international organization such as the UN or OAS, government agency such as the State Department, or international NGO or research institution. Students will be expected to produce specific assignments that reflect agreed-upon learning goals under the direction of a program faculty member.

*Prerequisites:* INTL 100 and at least nine additional hours of INTL program courses at the 200 or 300 level. The student must have at least sophomore standing, be in good academic standing, and have the permission of the INTL director and the student's concentration.

### INTL 495 International Studies Capstone (3)

The International Studies Capstone provides IS majors with a culminating integrative experience at the end of the major. Students from the various concentrations will come together to explore and analyze a major international event, problem or phenomenon, sharing the perspectives and tools they have gained in their diverse studies.

*Prerequisite:* International Studies majors with 24 earned hours in the major.

**INTL 499 Bachelor's Essay (6)**

The Bachelor's Essay is a year-long research and writing project done during the senior year under close supervision of a tutor from the program. The student must take the initiative in seeking a tutor to help in both the design and supervision of the project. A project proposal must be submitted in writing and approved by the program faculty prior to registration for the course. The International Studies bachelor essay project must be interdisciplinary.

*Prerequisite:* INTL major.

## Italian Courses

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**ITAL 101 Elementary Italian (3)**

Introduces the fundamental structure of Italian with emphasis on acquisition of the basic language skills, reading and listening comprehension, and oral and written expression.

*Prerequisite:* Open only to beginning students of Italian.

**ITAL 102 Elementary Italian (3)**

Introduces the fundamental structure of Italian with emphasis on acquisition of the basic language skills, reading and listening comprehension, and oral and written expression.

*Prerequisite:* ITAL 101 or placement.

**ITAL 201 Intermediate Italian (3)**

Develops a basic proficiency in Italian and familiarity with Italian culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* ITAL 102 or placement.

**ITAL 202 Intermediate Italian (3)**

Develops a basic proficiency in Italian and familiarity with Italian culture through practice in the use of the basic language skills and acquisition of vocabulary.

*Prerequisite:* ITAL 201 or placement.

**ITAL 313 Italian Conversation and Composition I (3)**

Provides intensive practice in the written and spoken language while introducing contemporary cultural materials.

*Prerequisite:* ITAL 202 or placement, or permission of the instructor.

**ITAL 314 Italian Conversation and Composition II (3)**

Provides intensive practice in the written and spoken language while introducing contemporary cultural materials.

*Prerequisite:* ITAL 202 or placement, or permission of the instructor.

**ITAL 328 Italian Language Study Abroad (3)**

Designed to develop confidence in communicative skills and greater facility in dealing with ideas in Italian through study in Italy.

**ITAL 330 Collateral Study (1-3)**

Individually supervised course of reading in Italian and in the subject area of a concurrent course offered by another department. The nature and extent of readings will be determined in consultation among student, instructor of the primary subject-matter course, and the language instructor, who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to maximum of six credit hours in conjunction with other primary courses.

**ITAL 361 Survey of Italian Literature I (3)**

Italian literature studied from its origins to the 18th century.

*Prerequisite:* ITAL 202 or permission of the instructor.

**ITAL 362 Survey of Italian Literature II (3)**

A continuation of ITAL 361. Italian literature from the 18th century to the beginning of the 20th century.

*Prerequisite:* ITAL 202 or permission of the instructor.

**ITAL 370 Studies in Italian Film and Literature (3)**

Study of major works of literature and their adaptation to the screen, with emphasis on the similarities and differences between the two media. The course will be conducted in English.

**ITAL 390 Special Topics in Italian (3)**

Intensive study of a particular subject or theme. (Specific topics will be listed in the Schedule of Courses when offered; e.g., Italian Contemporary Narrative.)

**ITAL 452 20th-Century Italian Literature (3)**

A study of the major works of the 20th-century Italian literature.

*Prerequisite:* ITAL 313 or 314, or permission of the instructor.

**LTIT 150 Italian Literature in (English) Translation (3)**

Study of selected works from a number of literatures that offer different perspectives on the world and humankind.

**LTIT 250 Italian Literature in (English) Translation (3)**

Study of selected works, representing major literary periods and genres, which illuminate another language and culture or era of a shared human condition.

**LTIT 270 Introduction to Italian Cinema (3)**

This course is a survey of Italian cinema from WWII to the present. Genres such as Neorealism, Italian-style comedy, the spaghetti western and political cinema, which reflect and comment on the cultural, social and political realities of Italy, will be analyzed historically and stylistically.

**LTIT 350 Italian Literature in (English) Translation (3)**

Study of selected works by an author whose influence is felt in the world at large.

**LTIT 370 Studies in Italian Cinema (3)**

This course will explore various aspects of Italian Cinema, one topic at a time. Topics will rotate from semester to semester and include New Italian Cinema, cinematic treatment of South Italy, Italian-American cinema, and politics and ideology in Italian Cinema.

**LTIT 450 Italian Literature in (English) Translation (3)**

A study of selected works by major authors representing different cultures with emphasis on common themes as viewed from the perspectives of these writers.

## Japanese Courses

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**JPNS 101 Elementary Japanese (4)**

Introduces the fundamental structures of Japanese with emphasis on acquisition of

listening comprehension and oral expression. Introduction to the writing and reading of Japanese characters.

*Prerequisite:* Open to beginning students of Japanese.

#### **JPNS 102 Elementary Japanese (4)**

Introduces the fundamental structures of Japanese with emphasis on acquisition of listening comprehension and oral expression. Introduction to the writing and reading of Japanese characters.

*Prerequisite:* JPNS 101 or placement.

#### **JPNS 201 Intermediate Japanese (4)**

Develops a proficiency in Japanese and familiarity with Japanese culture through practice in the use of the basic language skills (listening, speaking, reading, writing) and acquisition of vocabulary.

*Prerequisite:* JPNS 102 or placement.

#### **JPNS 202 Intermediate Japanese (4)**

Develops a proficiency in Japanese and familiarity with Japanese culture through practice in the use of the basic language skills (listening, speaking, reading, writing) and acquisition of vocabulary.

*Prerequisite:* JPNS 201 or placement.

#### **JPNS 313 Japanese Conversation and Composition I (3)**

Strengthens the development of communication skills in Japanese, while introducing the culture that shapes the people of Japan. Attention will be given to various writing styles and achievement of them by regularly assigned compositions.

*Prerequisite:* JPNS 202 or placement.

#### **JPNS 314 Japanese Conversation and Composition II (3)**

Strengthens the development of communication skills in Japanese, while introducing the culture that shapes the people of Japan. Attention will be given to various writing styles and achievement of them by regularly assigned compositions.

*Prerequisite:* JPNS 313 or placement.

#### **JPNS 343 Advanced Japanese Conversation and Composition (3)**

Advanced study of Japanese that provides intensive practice in the spoken and written language. Students will be exposed to a wide range of functional

skills as well as sociocultural information necessary for smooth communication in Japanese. Special emphasis is put on vocabulary and grammar used to express different levels of politeness.

*Prerequisite:* JPNS 314 or permission of the instructor.

#### **JPNS 390 Special Topics (3)**

##### **LTJP 250 Japanese Literature in (English) Translation (3)**

Study of selected works, representing major literary periods and genres, which illuminate another language and culture or era of a shared human condition.

##### **LTJP 350 Japanese Literature in (English) Translation (3)**

Study of selected works by an author whose influence is felt in the world at large.

##### **LTJP 390 Special Topics (3)**

##### **LTJP 450 Japanese Literature in (English) Translation: Comparative Literature (3)**

Study of selected works by major authors representing different cultures with emphasis on common themes as viewed from the perspectives of these writers.

## **Jewish Studies Courses**

#### **JWST 200 The Jewish Tradition (3)**

A multidisciplinary introduction to the history, beliefs, practices and institutions of the Jewish tradition, from its biblical foundations to the modern state of Israel.

*Note: This course may not be taken for credit if credit has been received for RELS 225.*

#### **JWST 210 Jewish History I: Ancient to Modern (3)**

A survey of the social, economic, religious, and political experience of the Jewish people in the pre-modern world, emphasizing the diversity of the Jewish experience and the interaction between Jews and their surrounding environments. (Course has no prerequisite; students taking JWST 210 are not required to take JWST 215.)

#### **JWST 215 Jewish History II: Modern to Present (3)**

A survey of the social, economic, religious, and political experience of the Jewish people in the modern world, emphasizing the diversity of the Jewish experience and the interaction between Jews and their surrounding environments. (Course has no prerequisite; students taking JWST 215 are not required to have taken JWST 210.)

#### **JWST 230 The Holocaust (3)**

A historical examination of the genocide carried out in Nazi Germany from 1933-1945: its causes, its specific operation, its relation to other forms of political violence, and its significance for Jewish and non-Jewish understandings of politics, history and the nature of evil.

#### **JWST 240 Jewish Philosophy (3)**

A historical survey of some major philosophical themes and debates within the Jewish tradition. Readings will be drawn from biblical, rabbinic, medieval and modern sources. Texts and authors may include Job, Ecclesiastes, Pirke Avot, Philo, Maimonides, Spinoza, Mendelsohn, Rosenzweig, Buber and Levinas.

#### **JWST 245 Introduction to Jewish-American Literature (3)**

An introduction to Jewish-American literature from the 20th century to the present. Cross listed with ENGL 191.

#### **JWST 300 Special Topics in Jewish Studies (3)**

An examination of an area in Jewish studies for which no regular course is offered. The course may be repeated for credit if the content is different. The specific topic will be listed when the course is offered.

#### **JWST 310 Topics in Jewish History (3)**

Intensive study of a particular period or theme in Jewish history. The specific topic will vary; the course can be repeated for credit if the topic is different.

#### **JWST 315 Southern Jewish History**

A study of the Jewish experience in the South from the colonial period to the present. Themes include the Jewish encounter with race and racism, the experience of Jewish women, the nature of Southern antisemitism, and whether the case of Charleston reflects the

broader narrative of Southern Jewish history.

#### **JWST 320 Topics in American Jewish Culture (3)**

Examination of a dimension of the material and/or artistic culture of Jews as an ethnic group in the United States. Topics might include residential, economic, communal, and/or religious organization; architecture, literature, or film. The specific topic will vary; course can be repeated for credit if the topic is different.

#### **JWST 325 Jewish Mysticism**

A study of the major forms of Jewish mysticism, particularly Kabbala - the dominant expression of Jewish mysticism since the 13th century - and its modern manifestations in the Hasidic movement. Readings include both secondary and primary sources, in English translation.

#### **JWST 330 Representations of the Holocaust**

An examination of the ways the Holocaust has been represented in memoir, literature, and/or film. Special attention will be paid to the difficulty of representing the uniqueness and distinctive evil of this historical event.

#### **JWST 335 Modern Jewish Politics (3)**

An examination of Jewish political movements in modern Europe, the United States, and Israel.

#### **JWST 400 Independent Study (3)**

Individually supervised readings and study of some work, problem, or topic in Jewish studies of the student's interest. A project proposal must be submitted in writing and approved by the director or associate director prior to registration for the course.

#### **JWST 450 Research Seminar in Jewish Studies (3)**

Introduction to original research in Jewish Studies. The seminar will have a specific topic, but readings will be methodological as well as topical. Students will discuss the nature of original research in Jewish Studies, and create and present a research project of their own. Open to majors, minors, or by permission.

## Latin American and Caribbean Studies Courses

#### **LACS 101 Introduction to Latin American and Caribbean Studies (3)**

This course is designed as an interdisciplinary introduction to Latin America and the Caribbean through a study of its history, geography, politics, economic systems, literature and art. Although it is impossible to cover all of the countries of Latin America and the Caribbean (Mexico, Central and South America and the Caribbean) in one semester, students will gain an insight into some of the major historical events and cultural developments of the region. Several members of the College of Charleston faculty with expertise in certain aspects of Latin America and the Caribbean will present lectures.

*Note: This course can satisfy either the social science or humanities degree requirement.*

#### **LACS 103 Introduction to Contemporary Cuba (3)**

A multi-disciplinary introduction to 20th-century Cuba, its civilization and culture including politics, economy, social history and the arts. The course will make the Cuban Revolution a particular focus – its accomplishments, and the present-day struggle over its future. Study visits, day trips, special lectures by Cuban scholars and guided study tours to museums, natural parks and Pinar del Rio province among other sites will be an integral part of this course.

*Note: This course can satisfy either the social science or humanities degree requirement.*

#### **LACS 104 Introduction to Contemporary Chile (3)**

This course is a multi-disciplinary introduction to the civilization and culture of Chile. The course will provide an overview of the 19th century, starting with the period of independence, but the main focus will be on 20th-century development, including politics, social history, economy and the arts. Study tours to museums, cultural centers and historical sites will be an integral part of the course as offered under the study abroad program in Chile.

*Note: This course can satisfy either the social science or humanities degree requirement.*

#### **LACS 105 Introduction to Contemporary Brazil (3)**

Students will travel to distinct regions of Brazil to gain a better understanding of the different Brazilian peoples and cultures. This intensive two-week course will examine current issues in Brazil, such as politics, history, economy, geography/land distribution, ecology, art and popular culture. Guided study tours to museums, cultural centers, historical sites and natural parks will be part of this course.

*Note: This course can satisfy either the social science or humanities degree requirement.*

#### **LACS 106 Introduction to Contemporary Argentina (3)**

An introduction to late 20th- and 21st-century Argentina, its civilization and culture including politics, economy, social history, the arts and literature. This course will only be given in Argentina as part of a College of Charleston study-abroad program.

*Note: This course can satisfy either the social science or humanities degree requirement.*

#### **LACS 200 Special Topics in Latin American and Caribbean Studies (3)**

Basic introductory examination of a specialized topic in Latin American and Caribbean studies. Specific topic will be listed with the course title when offered.

#### **LACS 300 Special Topics in Latin American and Caribbean Studies (3)**

Intensive examination of a specialized topic in Latin American and Caribbean studies. Specific topic will be listed with the course title when offered.

#### **LACS 400 Independent Study in Latin American and Caribbean Studies (3)**

This course is designed for the student seeking to do specialized reading and/or research in a topic on Latin America or the Caribbean.

#### **LACS 401 Latin American and Caribbean Studies Internship (1-4)**

An opportunity for students to gain practical experience through supervised field placement in areas related to Latin American and Caribbean Studies.

Placement may be made in Latin America and/or the Caribbean or in the US on a Latin America/Caribbean related project. Students will be expected to produce specific assignments that reflect agreed-upon learning goals under the direction of a program faculty member.

*Prerequisites:* LACS 101 and at least nine additional hours of of LACS program courses at the 200 or 300 level. The student must have at least sophomore standing, be in good academic standing, and have the permission of the LACS director.

#### **LACS 495 Latin American and Caribbean Studies Capstone (3)**

The Latin American and Caribbean Studies Capstone provides LACS majors with a culminating integrative experience at the end of the major. Students will explore and analyze a theme, event, problem or phenomenon, shared by the various regional societies and apply perspectives and tools they have gained in their diverse classes.

*Prerequisite:* 24 hours in declared LACS major.

#### **LACS 499 Bachelor's Essay (6)**

The Bachelor's Essay is a year-long research and writing project done during the senior year under close supervision of a tutor from the program. The student must take the initiative in seeking a tutor to help in both the design and supervision of the project. A project proposal must be submitted in writing and approved by the program faculty prior to registration for the course. The LACS bachelor essay project must be interdisciplinary.

## Latin Courses

#### **LATN 101 Elementary Latin (3)**

Introduces the fundamental grammar, syntax and vocabulary of Latin with emphasis on reading comprehension.

*Prerequisite:* LATN 101 is open only to beginning students of Latin.

#### **LATN 102 Elementary Latin (3)**

Continues the introduction to the fundamental grammar, syntax, and vocabulary of Latin with emphasis on reading comprehension.

*Prerequisite:* LATN 101 or placement.

#### **LATN 150 Intensive Elementary Latin (6)**

An introduction to the fundamental grammar, syntax and vocabulary of Latin with emphasis on reading comprehension.

*Prerequisite:* This course is open only to beginning students in Latin.

*Note: This course covers the materials of LATN 101–102 in one semester. Classes meet five days a week for a total of six hours of instruction. It is designed for students who seek to accelerate their study of Latin. Students who have completed LATN 101 and/or 102 may not receive credit for LATN 150. Students who complete LATN 150 may not receive credit for 101 or 102.*

#### **LATN 201 Intermediate Latin (3)**

Completes the introduction to Latin grammar, syntax, and vocabulary, while developing fluency in reading comprehension and translation.

*Prerequisite:* LATN 102 or 150 or placement.

#### **LATN 202 Intermediate Latin (3)**

Readings of selected works by Roman authors with a comprehensive review of Latin grammar, syntax, and vocabulary.

*Prerequisite:* LATN 201 or placement.

#### **LATN 250 Intensive Intermediate Latin (6)**

Completes the introduction to basic Latin grammar, syntax and vocabulary, followed by an introduction to the reading of Latin literature.

*Prerequisite:* LATN 102 or 150 with a grade of "C+" (2.5) or better, or placement via placement exam. Students are advised not to postpone completion of their language requirement until their senior year, since this course might not be available to them.

*Note: This course covers the materials of LATN 201–202 in one semester. Classes meet five days a week for a total of six hours of instruction. It is designed for students who seek to accelerate their studies of Latin. Having completed 201 and/or 202, students may not take 250 for credit; conversely, students who complete LATN 250 may not receive credit for 201 or 202. NOTE: LATN 202 or 250 or their equivalents are prerequisites for all 300-level Latin courses.*

#### **LATN 301 Introduction to Latin Literature (3)**

An introduction to the literature of the Classical period through selected readings from the works of major authors.

*Note: LATN 301 is a prerequisite for all other 300-level Latin courses.*

#### **LATN 305 Medieval Latin (3)**

An introduction to the reading of Medieval Latin prose and verse.

*Prerequisite:* LATN 301.

#### **LATN 321 Cicero (3)**

Selected readings from one or more of Cicero's speeches, letters or philosophical works.

*Prerequisite:* LATN 301.

#### **LATN 322 Vergil (3)**

Selections from the Aeneid will be read.

*Prerequisite:* LATN 301.

#### **LATN 323 Roman Historiography (3)**

The style and content of Roman historical literature will be studied through readings from one or more of the major historians.

*Prerequisite:* LATN 301.

#### **LATN 371 Roman Comedy (3)**

Representative plays of Plautus and Terence will be read.

*Prerequisite:* LATN 301.

#### **LATN 372 Roman Satire (3)**

Survey of Roman satirical literature with emphasis on Horace and Juvenal.

*Prerequisite:* LATN 301.

#### **LATN 373 Roman Biography (3)**

A study of the Roman biographical tradition with readings from Cornelius Nepos, Tacitus or Suetonius.

*Prerequisite:* LATN 301.

#### **LATN 390 Special Topics (3)**

Intensive study of a particular author or theme.

*Prerequisite:* LATN 301.

#### **LATN 490 Seminar: Special Topics in Latin (3)**

Intensive studies designed to supplement or to investigate more fully offerings in the Latin curriculum.

*Prerequisite:* Permission of the instructor.

#### **LATN 496 Directed Readings (1-3)**

Individually supervised readings in Latin, agreed upon in consultation with the instructor. Credit hours assigned will be determined by the nature and extent of the reading.

*Prerequisite:* Permission of the instructor.

#### **LATN 498 Independent Study in Latin (1-3)**

Research on a topic to be defined by the individual student in consultation with the instructor, who will direct the project and determine the credit hours to be assigned.

*Prerequisite:* Permission of the instructor.

## Learning Strategies Course

#### **EDLS 100 Learning Strategies (0)**

This course covers techniques for becoming a more proficient learner. Focus is on strategies for interpretive thinking: comprehension, analysis, reasoning, problem solving, organization and planning.

*Note: Credits earned in this course are not applied toward degree requirements.*

## Library Course

#### **LIBR 105 Resources for Research (1)**

As members of the scholarly community, students are instructed in the skills and strategies needed to locate, evaluate, analyze and apply information resources from a variety of media. The course concentrates on academic library resources and assumes some basic knowledge and understanding of library research.

## Linguistics Courses

#### **LING 125 Introduction to Language and Linguistics (3)**

As an interdisciplinary course, it provides an introduction to language, and the scientific and social aspects of linguistics

such as phonology, morphology, syntax, language acquisition, evolution, variation and other applied linguistic topics.

#### **LING 290 Special Topics in Linguistics (3)**

Studies designed to research different linguistic topics. Topics may cover any area of linguistics.

#### **LING 385 Teaching Latin in Elementary and Middle Schools (3)**

Training in the audio-lingual method of teaching simple Latin dialogues; strategies for transferring Latin vocabulary to English; an introduction to selected stories from classical mythology and to certain aspects of Roman culture.

*Note: Although this course may be applied toward a major in Classical studies, it does not count toward the minimum degree requirement in humanities. This course does not count toward a minor in linguistics; it is not part of the linguistics program.*

#### **LING 498 Independent Study (1-3)**

Research on a linguistic issue/topic to be defined by the individual student in consultation with the instructor in the department who will guide the work and determine the number of credit hours to be assigned. A proposal must be submitted and approved by the department prior to registration.

*Prerequisites:* Permission of the instructor and departmental approval prior to registration.

#### **LING 499 Bachelor's Essay (6)**

A year-long research and writing project done in English, during the senior year under the close supervision of a tutor. A project proposal must be submitted and approved. May apply to the minor in linguistics. A proposal must be submitted and approved by the department prior to registration.

*Prerequisite:* Permission of the instructor.

## Management and Entrepreneurship Courses

#### **MGMT 105 Introduction to Business (3)**

This course is for all students of the college who are interested in a survey of the activities that occur in a business institution. The various types and forms of business organizations will be presented and analyzed with special emphasis on the role of the business enterprise in society. Business school majors who have completed or are concurrently enrolled in a 300- or 400-level business, international business, economics or accounting course may not receive credit for this course. This course will not be applied toward the GPA in business, international business, economics or accounting.

#### **MGMT 210 Career Development (1)**

This course employs experiential learning to cover concepts and techniques of career planning and development. Students will examine interview techniques, interviewer biases, selection decision making, employment testing, and person-organization fit. Students will study laws regulating the employment process and principles of career planning.

*Prerequisite:* Sophomore standing.

#### **MGMT 260 Special Topics in Management (1-3)**

An in-depth treatment of a current area of special concern within the field of management.

#### **MGMT 301 Management & Organizational Behavior (3)**

This course approaches management as that process of reaching organizational goals by working with and through people and other resources. Organizations are treated as dynamic entities affected by individual and group behavior as well as structural and environmental factors. International as well as domestic situations are examined.

*Prerequisite:* Junior standing. (Enrollment restricted to declared majors.)

**MGMT 307 Human Resource Management (3)**

A review of personnel policy, manpower planning, staffing, training and development, compensation administration and union-management relations.

*Prerequisites:* MGMT 301, junior standing.

**MGMT 308 Managing Diversity (3)**

This course will examine demographic diversity in today's global environment. It will begin by exploring global emigration, immigration and refugee issues from an international business perspective. Specific national or regional business cultures and differing perspectives on gender, family, age, ethnicity and treatment of the disabled will also be examined through case studies, readings and role playing. The course will subsequently examine the effects of diversity on international corporate structure and behavior and demonstrate, through case studies and guest speakers, how proactive businesses have adapted to changes in demographic diversity and gained a competitive advantage.

*Prerequisite:* Junior standing.

**MGMT 310 International Human Resources (3)**

The study of international human resource management focuses on the impact and expansion of international trade and growth of U.S. multinational operations abroad and the effects on employees. It stresses the ability to understand the forces creating variations of HR systems across nations, culture, labor, governments and unions.

*Prerequisite:* MGMT 307.

**MGMT 319 Creation of New Bus Enterprise (3)**

This course provides students with an understanding of the business planning techniques – economic analysis, financial analysis, market analysis, accounting practices and human resource analysis – which are utilized in conceiving and launching a new business. A new venture simulation, which includes self-assessment exercises and a discussion of research concerning successful entrepreneurial characteristics, is completed by all students.

*Prerequisite:* Junior standing.

**MGMT 325 International Management (3)**

This course examines a variety of managerial issues arising from the interaction of two or more cultures in international business situations. The course extends the management and organizational behavior constructs introduced in the prerequisite course, with particular emphasis on problem solving and decision making in the multicultural firm.

*Prerequisites:* MGMT 301; junior standing.

**MGMT 332 Business Communications (3)**

This course develops an understanding of the theory of human communication so that one can apply it in an organizational setting requiring both oral and written expression of properly identified and presented decisions. The course content will include intrapersonal, interpersonal and organizational communication theory; principles of human behavior and their application to business communication; and principles involved in the writing of various letters, memos and reports.

*Prerequisite:* Junior standing.

**MGMT 340 Total Quality Management (3)**

Introduction to Total Quality Management including the critical role of organizational culture, continuous process improvement, statistical process control, and the relationship of TQM to performance, productivity, and profit. Literature and research findings of key contributors will be discussed. The Baldrige Award and ISO 9000 will be examined as benchmarking paradigms for manufacturing and service sectors.

*Prerequisites:* Junior standing; DSCI 232, MGMT 301; MATH 104.

**MGMT 345 Leadership and Management Development (3)**

An investigation of the factors that determine leadership with special emphasis on the leader's vision. The effectiveness of leaders from a wide variety of disciplines will be examined. Contemporary leaders will be selected in order to apply theories and concepts to current situations that can be easily visualized.

*Prerequisite:* Junior standing.

**MGMT 350 Business, Leadership, & Society (3)**

This course explores issues that arise in the context of doing business and leading organizations. Specifically, this course helps students see how leaders deal with the many dilemmas they face when making business and organizational decisions, given the organization's internal, competitive, social and global environments. The course covers the leadership issues that arise out of dilemmas of corporate governance and social responsibility as well.

*Prerequisite:* Junior standing.

**MGMT 351 Minority Entrepreneurship (3)**

This course explores the history and evolution of minority-owned businesses in the United States. Students will become familiar with the benefits and challenges that face minority entrepreneurs within the marketplace. Various elements of business development, operation, and growth will be examined within the context of minority ownership.

*Prerequisite:* Junior standing.

**MGMT 360 Special Topics in Management (3)**

In-depth treatment of current areas of special concern within the field of management. A maximum of six hours of special topics courses may be applied toward the business major elective requirement.

*Prerequisite:* Junior standing; other prerequisites depending on topic.

**MGMT 377 Psychology of Entrepreneurship (3)**

Entrepreneurial ventures begin when people recognize and act upon market opportunities. From the time of an initial business idea to the time a firm is organized, the critical processes involve the psychological characteristics and actions of individuals. This course examines those processes in detail through lectures, discussion, and cases.

*Prerequisites:* PSYC 103; one of: (MATH 104 or PSYC 211 or DSCI 232).

**MGMT 390 The New South Carolina: Foreign & Domestic Industrial Development (3)**

An in-depth analysis of South Carolina's changing role as a member of the national and international economic scene. The course offers an opportunity to interact with industrial leaders from government,

banking, manufacturing, and service areas. The course includes visits to industrial sites in South Carolina.

*Prerequisites:* ECON 200 and 201 or permission of the instructor; junior standing.

### **MGMT 391 The International Corporation: A Comparative Approach (3)**

An introduction to the various levels of operations in the European headquarters of international firms with extensive investments and/or operations in South Carolina. By means of on-site plant and office visitations, participants will examine managerial styles, cultural environments, decision-making techniques and systems and will have opportunities to observe and analyze the management philosophies, practices and outcomes in firms located in the major Western European industrial nations. Application process through the chair of the management and marketing department and Office of International Programs.

*Prerequisites:* ECON 200 and 201 or permission of the instructor; junior standing.

### **MGMT 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week). The student must take the initiative in seeking a tutor to help in the design and supervision of the project. A maximum of six hours of tutorial courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; permission of the tutor and the chair.

### **MGMT 401 Organizational Behavior & Change (3)**

An experiential learning design for studying the impact individuals, groups and structures have on behavior within the organization for the purpose of applying that knowledge toward improving an organization's effectiveness.

*Prerequisites:* Senior standing; MGMT 301.

### **MGMT 402 Leading Organizational Change**

This course exposes class members to central issues surrounding the reality of implementing large-scale change in organizations. New understandings of organization change, and about you as

change agent and recipient, will provide provocative insights into managing everyday work life as well as organizational change programs.

*Prerequisites:* Senior standing; MGMT 301.

### **MGMT 403 Entrepreneurial Leadership (3)**

The course will examine the Entrepreneurial Leadership (EL) factors needed to bring about enterprise transformation or transition from start-up and ongoing operations to what is frequently called enterprise building. Theories and related research will be examined, as will "best" and "worst" practices, using case studies, lectures, and outside speakers.

*Prerequisite:* ENTR 320 or MGMT 345.

### **MGMT 408 Business Policy (3)**

A course for senior business administration majors that draws together the functional areas of business operations: accounting, finance, marketing, human resources, management and production, as a means of developing the students' conceptual and decision-making abilities. Case studies will be used extensively.

*Prerequisites:* Senior standing; ACCT 203, 204, DSCI 232, 304, ECON 200, 201, FINC 303, MGMT 301, MKTG 302, MATH 104, 105.

### **MGMT 420 Independent Study (1-3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed. A maximum of six hours of independent study courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; written agreement with instructor and chair.

### **MGMT 444 Management Internship (3)**

A supplemental source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved agency and the school. The learning experience will be guided by a learning contract outlining specific work and academic components. A maximum of three (3) hours of internship credit will be awarded.

*Prerequisites:* Senior standing and declared major in the School of Business and Economics.

### **MGMT 445 Seminar in Entrepreneurship (1)**

This course offers lectures and interaction with a number of entrepreneurs, selected for their entrepreneurial accomplishments, in a small-group setting. Businesses are analyzed and/or developed.

*Co-requisite or prerequisite:* One of MGMT 319, ENTR 320, or ENTR 405.

### **MGMT 499 Bachelor's Essay (3)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the school. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the school prior to registration for the course.

*Prerequisite:* Senior standing.

## **Marketing and Supply Chain Management Courses**

### **MKTG 260 Special Topics in Marketing (1-3)**

An in-depth treatment of a current area of special concern within the field of marketing.

### **MKTG 302 Marketing Concepts (3)**

This course develops an appreciation for the complexities of establishing and implementing marketing strategies. Areas of study include consumer behavior, product/service mixes, branding and packaging, channels of distribution, pricing, advertising and salesmanship.

*Prerequisites:* ECON 200, 201; junior standing. Enrollment restricted to declared majors.

### **MKTG 320 Marketing Research (3)**

A course that establishes the relationship between models, information systems and marketing decisions. The practical application of behavioral and statistical methods for the purpose of obtaining and analyzing relevant marketing information will also be examined.

*Prerequisites:* ECON 200, 201, MATH 104, DSCI 232, MKTG 302; junior standing.

### **MKTG 326 International Marketing (3)**

Marketing on an international scale with stress upon the viewpoint of the marketing manager who must recognize and cope with differences in legal, economic, spatial and cultural elements in different nations. Emphasis is placed on marketing techniques and methods of expanding participation in foreign markets.

*Prerequisites:* MKTG 302, ECON 200 and 201; junior standing.

### **MKTG 328 Retailing Management (3)**

This course deals with that part of the distribution process called retailing. Topics include retail environment, location and store design, merchandise planning and control, selecting merchandise resources, pricing, sales promotion and display and customer service.

*Prerequisites:* MKTG 302, ECON 200 and 201; junior standing.

### **MKTG 329 Consumer Behavior (3)**

The objectives of this course are to: 1) provide students with an understanding of the various theories of consumer behavior and their practical applications, 2) expose students to the basic process and underlying principles of experimentation and 3) develop an appreciation among students for the significant influence marketing has on our purchasing behavior and, more generally, the lifestyle decisions we make.

*Prerequisites:* ECON 200, 201, MKTG 302; junior standing.

### **MKTG 330 Advertising (3)**

The role of advertising in a free economy and its place in the media of mass communications. Areas of study will include advertising appeals, product research, selection of media, testing of advertising effectiveness and the dynamics of the advertising profession.

*Prerequisites:* MKTG 302, ECON 200, 201; junior standing.

### **MKTG 331 Public Relations (3)**

The course identifies and examines the principles and practices in the relations of

an organization with its internal and external publics, with emphasis on communication; and explores the role of public relations in decision making, external financial reporting and public policy information.

*Prerequisite:* Junior standing.

### **MKTG 333 Purchasing & Supply Chain Management (3)**

The planning, organization, operation, and evaluation of the procurement function, and the acquisition and management of materials. Emphasis areas include quality and quantity considerations, supplier selection decisions, pricing policies, legal and ethical implications and standards and measurement of performance.

*Prerequisite:* Junior standing.

### **MKTG 360 Special Topics in Marketing (1-3)**

In-depth treatment of current areas of special concern within the field of marketing. A maximum of six hours of special topics courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; other prerequisites depending on topic.

### **MKTG 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week). The student must take the initiative in seeking a tutor to help in the design and supervision of the project. A maximum of six hours of tutorial courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; permission of the tutor and the chair.

### **MKTG 420 Independent Study (1-3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed. A maximum of six hours of independent study courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; written agreement with instructor and chair.

### **MKTG 425 Marketing Management (3)**

A course for upper-level marketing students that involves them in realistic

decision-making environments. The course will include descriptions of actual marketing situations permitting further familiarization with marketing principles and methods as they are employed in various industries.

*Prerequisites:* MKTG 302, MKTG 320, MKTG 329; ECON 200 and 201; junior standing.

### **MKTG 444 Marketing Internship (3)**

A supplemental source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved agency and the school. The learning experience will be guided by a learning contract outlining specific work and academic components. A maximum of three (3) hours of internship credit will be awarded.

*Prerequisites:* Senior standing and declared major in the School of Business and Economics.

### **MKTG 499 Bachelor's Essay (6)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the school. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the school prior to registration for the course.

*Prerequisite:* Senior standing.

## **Mathematics Courses**

### **Mathematics Note**

Before enrolling in a mathematics course, all entering students are advised to consult with their major academic advisor, the Academic Advising and Planning Center, or a member of the Department of Mathematics.

### **MATH 099 College Algebra Lab (1)**

A laboratory program required for students in designated sections of MATH 101. The program will supplement class instruction. Other activities may include viewing videos on algebra topics and the use of graphing calculators. Applications of algebra topics will be explored. The credit hour earned in this lab may not be applied toward degree requirements.

*Co-requisite:* MATH 101.

### **MATH 101 College Algebra (3)**

A course that emphasizes algebraic functions. Topics include algebraic equations and inequalities, and the properties and graphs of algebraic functions. F, S, Su.

*Note: Credit hours earned in this course may not be applied toward minimum degree requirements in mathematics/logic. Students who have completed MATH 105, 111, 120 or HONS 115 may not subsequently receive credit toward graduation for MATH 101.*

### **MATH 102 Trigonometry (3)**

A course emphasizing the circular functions and their analytic properties. Topics include graphs of the trigonometric functions, identities, trigonometric equations, inverse trigonometric functions, logarithms and the solution of triangles.

*Note: Credit hours earned in this course may not be applied toward minimum degree requirements in mathematics/logic. Students who have completed MATH 111 or 120 may not subsequently receive credit toward graduation for MATH 102.*

### **MATH 103 Contemporary Mathematics with Applications (3)**

A course designed to introduce students to a variety of mathematical topics and applications, including mathematical logic, counting methods and combinatorics. Additional topics may include graph theory, set theory, voting and apportionment, geometry, financial mathematics, and management science. Primarily intended for students who are not planning to take more advanced mathematics courses. F, S, Su.

*Prerequisite:* MATH 101 or placement.

### **MATH 104 Elementary Statistics (3)**

Probability concepts, descriptive statistics, binomial and normal distributions, confidence intervals and tests of hypotheses. F, S, Su.

*Prerequisite:* MATH 101 or placement.

*Note: Students may not receive credit for MATH 104 after having received credit for a higher-level statistics or probability course.*

### **MATH 105 Calculus for Business and Social Sciences (3)**

A one-semester course designed to introduce the basic concepts of calculus to students who are not majoring in mathematics or the natural sciences. Emphasis will be on applications of calculus to various disciplines. Not intended for those who plan to take additional calculus courses. F, S, Su.

*Prerequisite:* MATH 101 or placement.

*Note: Students who complete MATH 120 or HONS 115 may not subsequently receive credit toward graduation for MATH 105, MATH 120, and HONS 115. (See Course Repeat Policy)*

### **MATH 111 Pre-Calculus Mathematics (4)**

A course that emphasizes the function concept. Topics include graphs of functions, the algebra of functions, inverse functions, the elementary functions and inequalities. F, S, Su.

*Prerequisite:* Placement or MATH 101.

*Note: Students who complete MATH 120 or HONS 115 may not subsequently receive credit toward graduation for MATH 111. (See Course Repeat Policy)*

### **MATH 115 Calculus Bridge (2)**

Course topics will include a trigonometry review, limits and continuity, derivatives of trigonometric functions, the Mean Value theorem, Riemann sums, integration by substitution, and the calculus of logarithmic and exponential functions. Successful completion of this course allows students to proceed to MATH 220.

*Prerequisite:* This course is available only to students who have completed MATH 105 with a grade of "A" in the previous year.

*Note: Students may not receive credit toward graduation for both MATH 115 and MATH 120.*

### **MATH 120 Introductory Calculus (4)**

This introductory calculus course for students in mathematics and the natural sciences includes the calculus of algebraic, trigonometric, exponential and logarithmic functions. Topics will include limits and continuity, derivatives, the Mean Value Theorem, applications of derivatives, the Riemann integral and the Fundamental Theorem of Calculus. A

thorough knowledge of precalculus concepts will be assumed. F, S, Su.

*Prerequisite:* MATH 111 or placement.

*Note: Students who complete MATH 120 may not subsequently receive credit for MATH 105.*

### **MATH 121 Introductory Calculus Laboratory (1)**

Laboratory to accompany MATH 120. Students will be introduced to using modern computer algebra systems implemented on digital computers to develop a deeper understanding of calculus concepts and applications. The topics covered will closely follow those of MATH 120: limits, derivatives, integrals and the fundamental theorem of calculus.

*Co-requisite or prerequisite:* MATH 120.

### **MATH 140 Intuitive Geometry for Teachers (3)**

This is a course in geometry designed primarily for the elementary and middle school teacher. Topics include sets, basic concepts of geometry, the metric system, perimeter, area and volume. Emphasis will be placed on problem solving. Some parallel reading on math education will be required.

*Note: Credit hours earned in this course may not be applied toward minimum degree requirements in mathematics/logic.*

### **MATH 203 Linear Algebra (3)**

Systems of linear equations, vector spaces, linear dependence, bases, dimension, linear mappings, matrices, determinants and quadratic forms. F, S, Su.

*Prerequisite:* MATH 220 or permission of the instructor.

### **MATH 207 Discrete Structures I (3)**

Theoretical concepts applicable to the theory of computing. Topics covered will be from the areas of formal logic and proofs, sets, matrix algebra, counting and Boolean algebra. F, S.

*Prerequisite:* MATH 105, 111, or 120.

### **MATH 220 Calculus II (4)**

The continuation of MATH 120, covering techniques and applications of integration, parametrized curves and polar coordinates, infinite sequences and series, power series and Taylor's Theorem. F, S, Su.

*Prerequisite:* MATH 120 or HONS 115 or both MATH 105 and MATH 115.

*Note:* Students may not receive credit toward graduation for both MATH 220 and HONS 215.

#### **MATH 221 Calculus III (4)**

Geometry of two- and three-dimensional spaces, limits and continuity of functions of several variables, vector-valued functions, partial derivatives, directional derivatives, Lagrange multipliers, multiple integrals, line integrals, Green's theorem and surface integrals. F, S.

*Prerequisite:* MATH 220.

#### **MATH 245 Numerical Methods and Mathematical Computing (3)**

Mathematical methods for computing numerical solutions to various problems will be studied, together with computer software for applying these methods, both interactively and by writing programs. Topics covered will include the effects of rounding and error in machine arithmetic, methods for finding roots, numerical differentiation and integration and approximation of functions. F.

*Prerequisite:* MATH 203, 220, or permission of the instructor.

*Co-requisite:* MATH 246.

#### **MATH 246 Mathematical Computing and Programming Laboratory (1)**

A laboratory course intended to accompany MATH 245. Students will be introduced to a modern software environment for interactive mathematical computation and programming. Laboratory exercises designed to be completed within the scheduled 150 minutes of laboratory time will be assigned each week. Additional programming assignments to be completed outside the laboratory will also be given. Laboratory meets three hours per week. F.

*Prerequisite:* MATH 220 or permission of the instructor.

#### **MATH 250 Statistical Methods I (3)**

Course topics will include descriptive statistics, probability, probability distributions, estimation, hypothesis testing, correlation and simple linear regression. Statistical quality control, analysis of variance and other topics will

be introduced as time permits. A statistics software package will be used. F, S, Su.

*Prerequisite:* Either MATH 111, 120, or permission of the instructor.

#### **MATH 260 Mathematical Modeling and Public Decision-Making (3)**

This is an introductory course in basic mathematical concepts and models that can be applied to the decision-making process in the public sector. Both continuous and discrete models will be examined. Topics will be chosen from the following: linear programming, growth processes, utility analysis, graph theory, game theory, group decision making and Arrow's impossibility theorem, coalition formation and voting behavior.

*Prerequisites:* MATH 104 and 105 or equivalent.

#### **MATH 290 Topics in Introductory Mathematics (3)**

This course focuses on a topic of intermediate-level mathematics. Possible topics are: foundations of mathematics, graph theory, combinatorics, nonparametric statistics and elementary number theory.

*Prerequisite:* Permission of the instructor.

*Note:* Since the content changes, this course may be repeated for credit.

#### **MATH 295 An Introduction to Abstract Mathematics (3)**

This course is intended to provide a transition from the calculus sequence to more advanced courses requiring an ability to do proofs. Topics include elementary propositional logic, set theory, mathematical induction, functions and relations. F, S.

*Prerequisite:* MATH 203 or 221.

#### **MATH 303 Abstract Algebra I (3)**

An introduction to algebraic structures. Topics will include groups, rings and fields. F, S.

*Prerequisites:* MATH 203 and 295.

#### **MATH 305 Elementary Number Theory (3)**

An introduction to number theory, including divisibility, primes, the fundamental theorem of arithmetic, arithmetic functions and congruencies. Additional topics from these areas, as well as diophantine equations and the

theory of real numbers, will be included as time permits. Designed to extend the student's abilities to read mathematics and write proofs. S.

*Prerequisite:* MATH 295 or permission of the instructor.

#### **MATH 307 Discrete Structures II (3)**

A continuation of MATH 207, including topics from graph theory, trees and relations. If time permits, additional topics may be chosen from finite automata and languages. F, S.

*Prerequisite:* MATH 203 or 207.

#### **MATH 311 Advanced Calculus (3)**

The theoretical underpinnings of the calculus of functions from  $\mathbb{R}$  to  $\mathbb{R}$ . Topics will include sequential limits, the completeness of  $\mathbb{R}$  and related theorems (Heine-Borel, Bolzano-Weierstrauss, etc.), function limits, continuity and uniform continuity, differentiability, Riemann integrability and the Fundamental Theorem of Calculus. F.

*Prerequisites:* MATH 221 and 295.

#### **MATH 315 Introduction to Complex Variables (3)**

An introductory course in complex variables with applications, beginning with complex numbers and continuing through the calculus of complex analytic functions, extending to the complex number system what has been learned thus far from the calculus on the real number system.

*Prerequisite:* MATH 221, with a minimum grade of 'C'.

#### **MATH 320 History of Mathematics (3)**

Number systems, historical problems of geometry, development of modern concepts in algebra, analytic geometry and calculus. S.

*Prerequisite:* MATH 295.

#### **MATH 323 Differential Equations (3)**

An introductory course designed to acquaint students with methods used in computing and analyzing the quantitative and qualitative behavior of solutions of ordinary differential equations. Applications of ordinary differential equations will also be discussed. Among the topics to be covered are: first-order and higher-order linear equations, simple numerical methods, the Laplace transform, eigenvalue techniques,

systems of equations and phase plane analysis. F, S, Su.

*Prerequisites:* MATH 221 and either 203 or permission of the instructor.

### **MATH 340 Axiomatic Geometry (3)**

An axiomatic development of Euclidean geometry, with topics from non-Euclidean geometry and projective geometry as time allows. F.

*Prerequisite:* MATH 295 or permission of the instructor.

### **MATH 350 Statistical Methods II (3)**

Statistical methods with topics selected from regression, correlation, analysis of variance, nonparametric statistics, and other models.

*Prerequisites:* MATH 120 and MATH 250.

### **MATH 355 Bayesian Statistical Inference (3)**

Bayesian philosophy towards statistical inference uses prior information about a problem before data has been collected. After data has been observed, this prior information is updated consistently with the observed data. Bayesian statistics can successfully handle complex statistical models where classical statistical methodology is inadequate. Topics covered include Bayes theorem, DeFinetti representation, Bayes factors in hypothesis testing, Bayesian set estimation, hierarchical and empirical Bayes models, admissibility of Bayes decision rules, MCMC and Gibbs sampling.

*Prerequisite:* MATH 250.

### **MATH 397 Research Experience Mathematics (0, Repeatable)**

A student works under faculty supervision to learn a research method, to explore possible research topics, or to continue an ongoing study. The faculty member helps the student to determine the course goals and objectives, and supervises the execution of project. The student will provide a written report to the faculty at the end of the semester. Students will receive a grade of "S" (satisfactory) or "U" (unsatisfactory) for the course.

*Prerequisites:* Only majors may take a Zero Credit Research course. Permission of the instructor and approval of the department chair.

### **MATH 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing, plus permission of the tutor and the department chair.

### **MATH 401 Introduction to Point Set Topology (3)**

Introductory concepts, topologies and topological spaces, functions, continuity, homeomorphisms, connected spaces, compact spaces and applications of topology in analysis.

*Prerequisite:* MATH 311.

### **MATH 402 Advanced Linear Algebra (3)**

A one-semester course that provides the linear algebra background necessary for a variety of applied fields. Topics include vector spaces, linear transformations, matrices, matrix factorizations, matrix norms, determinants, eigenvalues and diagonalization, bilinear forms, orthogonal and unitary transformations, Jordan canonical form. Application topics will be selected by the instructor.

*Prerequisites:* MATH 203 and at least one of MATH 303 and MATH 311.

### **MATH 403 Abstract Algebra II (3)**

This course is a continuation of MATH 303. Topics will be chosen from rings, fields, ideals, factor rings, extension fields, automorphisms and Galois Theory. F.

*Prerequisite:* MATH 303.

### **MATH 411 Advanced Calculus II (3)**

The sequel to MATH 311, intended to prepare students for graduate study in measure theory and other analysis. Topics may include topological concepts in  $\mathbb{R}^n$ , the calculus of multivariate and vector-valued functions, power series and uniform convergence, the Weierstrauss Approximation Theorem and generalizations of the Riemann integral. S.

*Prerequisites:* MATH 203 and 311.

### **MATH 415 Complex Analysis (3)**

The complex number system, analytic functions, integration, power series, residue theory, analytic continuation and conformal mapping.

*Prerequisite:* MATH 311.

### **MATH 417 Reading and Research (1-3)**

Directed reading in mathematics. Open to qualified seniors with permission of the Department of Mathematics. A student may take this course for one or two semesters, earning one to three hours credit each semester. Credit value in each case will be determined by the type of problem considered.

*Prerequisites:* Senior standing and permission of the instructor and department chair.

### **MATH 418 Reading and Research (1-3)**

Directed reading in mathematics. Open to qualified seniors with permission of the Department of Mathematics. A student may take this course for one or two semesters, earning one to three hours credit each semester. Credit value in each case will be determined by the type of problem considered.

*Prerequisites:* Senior standing and permission of the instructor and department chair.

### **MATH 421 Vector and Tensor Analysis (3)**

A systematic development of the differential and integral calculus of vector and tensor functions, followed by a brief introduction to differential geometry and the mathematics of theoretical physics.

*Prerequisite:* MATH 311.

### **MATH 423 Introduction to Partial Differential Equations (3)**

Study of heat, potential, and wave equations in rectangular, polar and cylindrical coordinate systems. Separation of variables and eigenfunction expansion techniques. Sturm-Liouville theory. F.

*Prerequisites:* MATH 221 and 323.

### **MATH 430 Mathematical Statistics I (3)**

This is a calculus based probability and statistics course. Topics will include probability functions and densities, mathematical expectations, sums of random variables, and sampling distributions.

*Prerequisite:* MATH 221.

### **MATH 431 Mathematical Statistics II (3)**

This course is the sequel to MATH 430. Topics will include estimation, decision theory, regression, correlation, hypothesis testing and ANOVA.

*Prerequisite:* MATH 430.

### **MATH 440 Statistical Learning I (3)**

Introduction to various approaches to statistical learning including empirical processes, classification and clustering, nonparametric density estimation and regression, model selection and adaptive procedures, bootstrapping and cross-validation.

*Prerequisites:* MATH 203, 220, and 350.

### **MATH 441 Statistical Learning II (3)**

Neural networks, nearest neighbor procedures, Vapnik Chervonenkis dimension, support vector machines, structural risk minimization induction, regularization methods and boosting and bagging in classification and regression.

*Prerequisite:* MATH 440.

### **MATH 445 Numerical Analysis (3)**

Topics include numerical methods for solving ordinary differential equations, direct methods and iterative methods in numerical linear algebra and selected topics in functions of several variables. oS.

*Prerequisites:* MATH 203, 245, and 323.

### **MATH 451 Linear Programming and Optimization (3)**

An introduction to deterministic models in operations research. Topics include linear programming, network analysis, dynamic programming and game theory.

*Prerequisites:* MATH 203, 221, and CSCI 220 or MATH 245, or permission of the instructor.

### **MATH 452 Operations Research (3)**

An introduction to probabilistic models in operations research. Topics include queueing theory, applications of Markov chains, simulation, integer programming and nonlinear programming. eS.

*Prerequisites:* MATH 203, 530 and CSCI 220 or MATH 245.

### **MATH 455 Bayesian Statistical Methods (3)**

Posterior distributions using observed data are calculated and used for inferences about model parameters. Classical statistical methods are compared with the Bayesian methods and classical models such as linear regression, ANOVA, and generalized linear models are extended to include the

Bayesian paradigm. Monte Carlo methods, Gibbs sampling and Metropolis-Hastings algorithms.

*Prerequisite:* MATH 430.

### **MATH 470 Mathematical Modeling (3)**

An introduction to the theory and practice of building and studying mathematical models encountered in the physical, social, life, and management sciences. The course will discuss discrete, continuous, and probabilistic models. Topics may include iterated maps, population models, phase space analysis of dynamical systems, stability of solutions, bifurcations, chaos, random simulations, data analysis, Markov chains, game theory, graph theory, and voting theory.

*Prerequisites:* MATH 203, MATH 323, and MATH 246 or CSCI 220, or permission of the instructor. MATH 430 is recommended.

### **MATH 475 Statistical Consulting (3)**

This course provides statistics students with the opportunity to apply statistical methods of data analysis to practical problems coming from actual clients, both students and professors from other disciplines as well as business and industry clients from the Charleston area.

*Prerequisites:* MATH 350 and one elective from the following list: MATH 440, MATH 441, MATH 451, MATH 452, CSCI 334.

### **MATH 480 Topics in Applied Mathematics (3)**

A semester course on an advanced topic in applied mathematics.

*Prerequisite:* Permission of the instructor.

*Note:* Since the content changes, this course may be repeated for credit.

### **MATH 485 Topics in Pure Mathematics (3)**

A semester course on an advanced topic in pure mathematics.

*Prerequisite:* Permission of the instructor.

*Note:* Since the content changes, this course may be repeated for credit.

### **MATH 490 Practicum in Mathematics (3)**

This course is intended to give students real-world experiences in applications of mathematics through internships, case

studies or projects undertaken by small groups of students under faculty supervision or the joint supervision of a faculty member and an industrial mathematician. It is the student's responsibility to submit a written practicum proposal to the applied mathematics committee in the semester prior to that in which the practicum is to be done (normally in the senior year). Reports will be submitted by the students describing and analyzing their internships or projects.

*Prerequisites:* Senior standing and permission of the instructor and department chair.

### **MATH 495 Capstone in Mathematics (3)**

Review of the core curriculum and foundations of mathematics. Readings will be taken from advanced texts, surveys and student-oriented journals. Emphasis on presentation of mathematics both orally and in writing. Weekly written assignments, a term paper and at least one oral presentation are required. S.

*Prerequisites:* Completion of other core courses and senior standing or permission of the department chair.

### **MATH 499 Bachelor's Essay (3)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

*Prerequisite:* Permission of the instructor and department chair.

## Middle Grade Education Courses

### EDMG 415 Middle School Organization and Curriculum (3)

This course is designed as an overview of the basic aspects of middle grades education including middle level philosophy, student development and diversity, organizational attributes of middle grades settings, curriculum, instruction, assessment, instructional planning, classroom management, involvement of family and community and professional development.

## Music - Practice and Performance Courses

### MUSC 121 Class Piano I (1)

Class instruction for beginning piano students with an emphasis on note reading and use of functional (chordal) harmony. Limited enrollment by audition.

### MUSC 122 Class Piano II (1)

Continuation of MUSC 121.

*Prerequisite:* MUSC 121 or permission of the instructor.

### MUSC 123 Class Voice (1)

The study of the voice for those with little or no previous vocal or musical training. Instruction dealing with interpretation, and vocal technique in English and foreign languages.

### MUSC 161 Concert Choir (1, Repeatable up to 8 Credits)

The study and performance of choral music, both sacred and secular, from the Renaissance to the 20th century. Laboratory three hours per week.

*Prerequisite:* Permission of the instructor.

### MUSC 292 Repertory Class: Voice (1)

A master class format in which students and faculty perform, critique and discuss various aspects of musical performance such as technique, interpretation and performance practice.

### MUSC 293 Repertory Class: Brass (1)

A master class format in which students and faculty perform, critique and discuss various aspects of musical performance such as technique, interpretation and performance practice.

### MUSC 294 Repertory Class: Woodwinds (1)

A master class format in which students and faculty perform, critique and discuss various aspects of musical performance such as technique, interpretation and performance practice.

### MUSC 295 Repertory Class: Jazz (1)

A master class format in which students and faculty perform, critique and discuss various aspects of musical performance such as technique, interpretation and performance practice.

### MUSC 296 Repertory Class: Strings (1)

A master class format in which students and faculty perform, critique and discuss various aspects of musical performance such as technique, interpretation and performance practice.

### MUSC 297 Repertory Class: Guitar (1)

A master class format in which students and faculty perform, critique and discuss various aspects of musical performance such as technique, interpretation and performance practice.

### MUSC 298 Repertory Class: Piano (1)

A master class format in which students and faculty perform, critique and discuss various aspects of musical performance such as technique, interpretation and performance practice.

### MUSC 353 Wind Ensemble

The study and performance of standard concert band literature. Open to all students, music majors and non-majors.

*Prerequisite:* Permission of the instructor

### MUSC 354 Orchestra (1)

The study and performance of orchestral literature.

*Prerequisite:* Permission of the instructor.

### MUSC 355 Ensemble: Chamber Music (1)

The study and performance of chamber ensemble literature written for various combinations of voices and/or instruments.

*Prerequisite:* Permission of the instructor.

### MUSC 356 Ensemble: Early Music (1)

The study and performance of ensemble literature from the Middle Ages and Renaissance.

*Prerequisite:* Permission of the instructor.

### MUSC 357 Ensemble: Guitar (1)

The study and performance of chamber ensemble literature written for various combinations of voices and/or instruments and guitar.

*Prerequisite:* Permission of the instructor.

### MUSC 358 Pep Band (1)

A 30-member ensemble that provides entertainment at basketball games and other College functions.

*Prerequisite:* Permission of the instructor.

### MUSC 359 Ensemble: Jazz Combo (1)

The study and performance of improvisation in a seven-piece jazz combo, graded from beginning to advanced.

*Prerequisite:* Permission of the instructor.

### MUSC 360 Reading Band (1)

The study and performance of large ensemble jazz works with an emphasis on developing sightreading skills.

### MUSC 364 Ensemble: Madrigal Singers (1)

The study and performance of choral literature from the Middle Ages and Renaissance as well as modern works written for chamber choir.

*Prerequisite:* Permission of the instructor.

### MUSC 365 Ensemble: Gospel Choir (1)

The study and performance of traditional hymns, spirituals and popular contemporary gospel literature.

### MUSC 366 Musical Theatre Workshop (1)

The study and performance of musical theatre literature.

*Prerequisite:* Permission of the instructor.

**MUSC 367 Opera/Musc Thtr Workshop (1)**

The study and performance of scenes from opera and musical theatre.

*Prerequisite:* Permission of the instructor.

*Note: No more than eight credits from any combination of ensembles or concert choir may be applied toward graduation requirements.*

**MUSC 370 Conducting I (2)**

The study of fundamental principles of conducting, both choral and instrumental, including basic beat patterns, hand and baton technique, interpretation, score reading and rehearsal techniques. Lectures two hours per week.

*Prerequisite:* MUSC 246.

**MUSC 371 Conducting II (2)**

The study of fundamental principles of conducting, both choral and instrumental, including basic beat patterns, hand and baton technique, interpretation, score reading and rehearsal techniques. Lectures two hours per week.

*Prerequisite:* MUSC 370.

**MUSC 475 Independent Study in Music Performance (3 or 6)**

Students who have taken an appropriate sequence of preparatory courses in one area or problem of music performance determine a project in consultation with a department member qualified to guide and judge the work.

*Prerequisites:* Students must be juniors or seniors, with overall GPAs of at least 2.75 and music GPAs of at least 3.3, and must have permission of the department.

**MUSP 201 Applied Music: Flute (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 202 Applied Music: Oboe (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning

students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 203 Applied Music: Clarinet (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 204 Applied Music: Bassoon (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 205 Applied Music: Saxophone (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 206 Applied Music: French Horn (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 207 Applied Music: Trumpet (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 208 Applied Music: Trombone (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 209 Applied Music: Tuba (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 211 Applied Music: Percussion (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 212 Applied Music: Piano (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for beginning students. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.







**MUSP 327 Applied Music: Classical Guitar (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 350 Applied Music: Other Instruments (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 376 Applied Music: Jazz Flute (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 377 Applied Music: Jazz Trumpet (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 378 Applied Music: Jazz Trombone (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 385 Applied Music: Jazz Guitar (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 386 Applied Music: Jazz Piano (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 387 Applied Music: Jazz Bass (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 388 Applied Music: Drumset (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 389 Applied Music: Vibraphone (1 or 2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for students who have completed eight hours of applied music at the 200 level and who have not passed a junior-standing jury. Private lessons are 30 minutes (1 credit hour) or 60 minutes (2 credit hours) per week. The fee for this course is \$225 per credit hour in addition to regular tuition charges.

*Prerequisite:* An audition is held at the beginning of each term.

**MUSP 401 Applied Music: Flute (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 402 Applied Music: Oboe (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 403 Applied Music: Clarinet (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week.



*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 424 Applied Music: Viola (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 425 Applied Music: Cello (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 426 Applied Music: Double Bass (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 427 Applied Music: Classical Guitar (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 450 Applied Music: Other Instruments (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week.

The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 476 Applied Music: Jazz Flute (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 477 Applied Music: Jazz Trumpet (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 478 Applied Music: Jazz Trombone (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 485 Applied Music: Jazz Guitar (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 486 Applied Music: Jazz Piano (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students

who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 487 Applied Music: Jazz Bass (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 488 Applied Music: Drumset (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$450 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

**MUSP 489 Applied Music: Vibraphone (2, Repeatable up to 8 Credits in Any One Area)**

Individual lessons in voice or instrumental music for advanced students who have passed a junior-standing jury. Private lessons are one hour per week. The fee for this course is \$400 in addition to regular tuition charges.

*Prerequisite:* A junior-standing jury (normally taken at the end of the fourth term in MUSP 2xx).

## Music Courses

**MUSC 131 Music Appreciation (3)**

Introduction to the fundamentals of music necessary for intelligent listening. Musical terminology and historical data are presented as needed, but central to the course is the development of more perceptive listening habits through guided listening to a variety of works.

**MUSC 146 Fundamentals of Music (3)**

A study of the basics of music notation and its realization. Includes a study of scales, key signatures, intervals, rhythmic notation and chord construction. Sight-singing of simple melodies and ear training will also be included.

*Note: This course does not satisfy the humanities requirement.*

**MUSC 147 Fundamentals of Music II (3)**

A continuation of MUSC 146. Harmonization of simple melodies, a study of non-harmonic tones, cadences, introduction to figured bass and harmonic analysis. Sight-singing and ear training will be a major part of the course.

*Prerequisite:* MUSC 146.

*Note: This course does not satisfy the humanities requirement.*

**MUSC 222 Special Topics (3)**

This course is a series of special topics courses designed for the non-music major. Course topics will change from semester to semester and will remain broad so as not to require an extensive background in music. The ability to read music is not required. Like MUSC 131, MUSC 222 is accepted as a humanities credit.

**MUSC 230 Masterworks of Music Literature (3)**

A study of representative compositions by master composers from 1700 to the present. No technical knowledge of music is required, but some familiarity with classical music is helpful.

*Prerequisite:* MUSC 131 or permission of the instructor.

**MUSC 232 History of Popular Music in the United States (3)**

An outline of the history of popular music in the U.S., beginning with the minstrel shows of the 1840s and continuing through the 1960s. The course will identify three revolutions in popular music: Early popular music (1840s–1900); the modern era of popular music (1900–on); the rock 'n' roll era (mid-1950s–on). The course will examine those cultural traditions that blended together to shape our history of popular music.

**MUSC 238 Music Theory Lab I (1)**

The study of musical scales, intervals, and key signatures utilizing sight-singing, ear training and keyboard exercises. Laboratory three hours per week. Should normally be taken by majors concurrently with MUSC 246.

**MUSC 239 Music Theory Lab II (1)**

Continuation of MUSC 238 with more ear training and sight-singing and beginning of four-part harmonic dictation. Laboratory three hours per week.

*Prerequisite:* MUSC 238 or permission of the instructor. Should normally be taken by majors concurrently with MUSC 247.

**MUSC 240 Phonetics for Singers (3)**

The pronunciation of Italian, German and French through the learning and use of the International Phonetic Alphabet. Students learn to transcribe the orthographic letters of the languages studied into IPA symbols, using these symbols as the key to correct pronunciation.

**MUSC 246 Music Theory I (3)**

A study of tonal music theory including a review of music fundamentals, construction and analysis of triads and seventh chords, four-part writing including first and second inversions, and the basics of musical form. Majors should take MUSC 238 concurrently.

*Prerequisite:* Permission of the instructor or music faculty representative.

**MUSC 247 Music Theory II (3)**

A continuation of MUSC 246. Further study of tonal music including non-chord tones, diatonic seventh chords, secondary functions, modulations using common chords and other modulatory techniques, and a brief examination of larger musical forms.

*Prerequisites:* MUSC 246 and 238 or permission of the instructor.

**MUSC 337 Opera Literature (3)**

A study of selected operas by composers of the 18th to 20th centuries.

*Prerequisite:* MUSC 131 or 230 or permission of the instructor.

**MUSC 338 Music Theory Lab III (1)**

Consists of keyboard harmony exercises, a review at the keyboard of material presented in Theory I, as well as sight-singing and dictation. Laboratory three hours per week.

*Prerequisite:* MUSC 239 or permission of the instructor.

**MUSC 339 Music Theory Lab IV (1)**

Advanced projects in analysis, keyboard skills, diction and/or ear training. A review of skills from previous theory and theory lab courses, tailored to the needs of the student enrolled. Laboratory three hours per week.

*Prerequisite:* MUSC 338 or permission of the instructor.

**MUSC 345 Jazz Theory (3)**

A study of the harmonic practice of jazz music. Investigation of standard harmonic structures and their uses, as well as standard symbols and terminology. Historical perspective from the bebop era through the present. Discussion of modern trends. Written assignments to augment lectures.

**MUSC 347 History of Jazz (3)**

A study of the historical, cultural, and musical significance of jazz and the major trends and styles of jazz, with attention to the most important performers in this idiom.

**MUSC 348 Music in America (3)**

A survey of music in American culture from Colonial times to the present, with particular attention to the social setting for American music and the influence of European and African cultures on American music. The course will involve listening to and discussing representative compositions by American composers. In the first part of the course, particular attention will be paid to Charleston as a musical center before 1860.

*Prerequisite:* MUSC 131 or any course in American history or literature would be helpful.

**MUSC 351 Seminar in Music Composition (3)**

Composition with adherence to strict forms and creative writing in various forms and media.

*Prerequisite:* MUSC 247.

**MUSC 352 Seminar in Music Composition II (3)**

Continuation of creative work begun in Music Composition I, with analysis emphasis on larger 20th century works. The student's final project will be presented in a public performance of the composition.

*Prerequisite:* MUSC 351.

**MUSC 381 Music History I (3)**

A study of music in Western European society between 400 A.D. and 1700 A.D. Medieval, Renaissance, and early Baroque styles of music, as seen in representative compositions and composers. Extensive listening to selected compositions and analysis of them, with attention to performance practice and the place of music in the society of the period.

*Prerequisite:* MUSC 247 or permission of the instructor.

**MUSC 382 Music History II (3)**

A study of music in Western European society in the 18th and 19th centuries. Music of the late Baroque masters, Classical period and Romantic period. Extensive listening to selected compositions and analysis of them, with attention to performance practice and the place of music in the society of the period.

*Prerequisite:* MUSC 381 or permission of the instructor; for minors in music, MUSC 246 is the prerequisite.

**MUSC 399 TUTORIAL (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing, plus permission of the tutor and the department chair.

**MUSC 444 Seminar: Selected Topics in Music History (3)**

Concentrated investigation in various subjects in music literature as announced each semester. Possible topics are the music of a particular composer; a study of Baroque ornamentation as realized in performance practice; or iconography (visual arts in music research), including a survey of archives or prints, discussion of paintings, etc., on musical subjects, and the use of iconography in research.

*Prerequisite:* Permission of the instructor.

**MUSC 445 Senior Independent Study: Music History (3 or 6)**

Students who have taken an appropriate sequence of preparatory courses in one area or problem of music history determine a project in consultation with a department member qualified to guide and judge the work.

*Prerequisites:* Open to juniors or seniors, with an overall GPA of at least 2.75 and a music GPA of at least 3.3, with the permission of the department.

**MUSC 460 Senior Independent Study in Music Theory or Composition (3 or 6)**

Large-scale project investigating a specific problem in theory, or a significant musical composition. May be repeated for a second semester if the scope of the project warrants it, or if an additional topic is selected.

*Prerequisites:* MUSC 352 or permission of the instructor; an overall GPA of at least 2.75 and permission of the department.

**MUSC 481 Music Theory III (3)**

A continuation of MUSC 247. Further study of tonal music and an introduction to tonal and non-tonal techniques of the 20th Century. Topics include mode mixture, the Neapolitan Chord, augmented sixth chords, enharmonic modulations, counterpoint, pentatonic and synthetic scales, quartal harmony, twelve-tone serialism, and other modern techniques.

*Prerequisite:* MUSC 247.

**MUSC 482 Music Theory IV (3)**

A continuation of MUSC 481. A study of representative examples of music from the common practice period and 20th Century with an emphasis on form and analysis. Topics include formal analysis, contrapuntal techniques, harmonic trends, instrumentation and orchestration, and the development of genres.

*Prerequisite:* MUSC 481.

**MUSC 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. Students must take the initiative in seeking a tutor to help in both

the design and supervision of their project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## Philosophy Courses

**PHIL 101 Introduction to Philosophy (3)**

An introduction to issues in central areas of philosophy, including the nature of reality, knowledge, and morality.

**PHIL 115 Critical Thinking (3)**

An examination of methods for the critical analysis of arguments in such contexts as science, law and morality, including a consideration of the use of language and definition and the detection of errors in reasoning in everyday communication. Skills in critical reading, writing and thinking will be introduced.

**PHIL 120 Symbolic Logic (3)**

An introduction to the formal methods of deductive logic, including sentential and predicate logic.

**PHIL 150 Nature, Technology, and Society (3)**

An examination of the philosophical problems arising from the impact of science and technology on contemporary society. Topics include the relation of technology to society and political systems, the place of the individual within a modern technocratic society, the influence of technology on views of nature and the question of human values and scientific knowledge.

**PHIL 155 Environmental Ethics (3)**

A study of the philosophical and ethical dimensions of environmental issues, including such topics as the moral status of other species and the nature of human obligations toward the environment.

**PHIL 160 Ethics and Sports (3)**

A study of ethical dimensions of sports and athletics, including such topics as the nature of sport, sports and character, sports and drugs, sports and violence, sports and gender and sports in higher education.

**PHIL 165 Philosophy and Feminism (3)**

An examination of philosophical issues in feminism such as the nature of freedom and equality, what it is to be a

person and to respect others as persons and whether or not our language encourages or presupposes a demeaning view of women. Specific topics may include equal opportunity, abortion, rape and marriage.

**PHIL 170 Biomedical Ethics (3)**

The application of ethical theories to issues and problems in biomedical ethics such as abortion, euthanasia, genetic engineering and genetic counseling, behavior control, death and dying and medical experimentation.

**PHIL 175 Business and Consumer Ethics (3)**

An examination of some of the ethical issues of the marketplace, such as the obligations of the business community to consumers, the role of government in protecting the consumer, fair advertising practices, the nature of the corporation and the extent to which it is appropriate for government to regulate business affairs.

**PHIL 185 Philosophy and Film (3)**

An introduction to philosophical thought about film, studying films themselves, and theoretical and critical writing about film. This course deals with both philosophical problems exhibited in films as well as philosophical problems about the nature of film.

**PHIL 198 Topics in Philosophy (3)**

An introductory examination of selected topics or issues in philosophy. May be repeated for credit if the subject varies.

**PHIL 201 History of Ancient Philosophy (3)**

An examination of the development of the philosophical views of the ancient Greeks, including the Presocratics, Socrates, Plato and Aristotle.

*Prerequisite:* Three semester hours in philosophy or permission of the instructor.

**PHIL 202 History of Modern Philosophy (3)**

An examination of the rise of modern philosophy and some of its principal characteristics as exemplified in some major philosophers from the close of the Middle Ages through the philosophy of Immanuel Kant.

*Prerequisite:* Three semester hours in philosophy or permission of the instructor.

**PHIL 203 Philosophy of Human Nature (3)**

An examination of what influential thinkers such as Darwin, Descartes, Freud, Marx, Plato, Sartre and Skinner have said about human nature.

**PHIL 205 Existentialism (3)**

A study of existential philosophy, covering thinkers such as Kierkegaard, Nietzsche, Jaspers, Heidegger, Marcel and Sartre.

**PHIL 206 Topics in Law and Morality (3)**

An examination of selected relationships between moral theory and legal institutions, such as legal ethics, the legal enforcement of morality, capital punishment or gay rights. May be repeated for credit if subject matter varies.

**PHIL 207 Ethics (3)**

A study of major ethical theories, such as utilitarianism, Kantian ethics, and virtue ethics.

**PHIL 208 Knowledge and Reality (3)**

A survey of major issues in metaphysics and epistemology. Topics may include the relation of mind and matter, causation, theories of justification, free will, and skepticism.

**PHIL 209 Political Philosophy (3)**

A study of historical and/or contemporary positions in political philosophy. Topics may include the nature of and justification for government, justice, liberty, equality, and human rights.

**PHIL 234 Eastern Philosophy (3)**

An examination of classical philosophy in India and China, and of the philosophical schools of the major traditions of Buddhist thought in India, China, and Japan.

**PHIL 240 Jewish Philosophy (3)**

A historical survey of some major philosophical themes and debates within the Jewish tradition. Readings will be drawn from biblical, rabbinic, medieval, and modern sources. Texts and authors may include Job, Ecclesiastes, Pirke Avot, Philo, Maimonides, Spinoza, Mendelsohn, Rosenzweig, Buber and Levinas.

*Note: This course may not be taken for credit if credit has been received for JWST 240.*

**PHIL 245 Environmental Philosophy (3)**

An examination of selected topics, approaches, or authors in environmental philosophy, such as environmental aesthetics, ecofeminism or the writings of Aldo Leopold.

**PHIL 250 Marxism (3)**

An examination of some of the philosophical writings of Karl Marx as well as his precursor, Hegel and followers such as Gramsci, Marcuse and Althusser.

**PHIL 255 Philosophy of Religion (3)**

An examination of issues such as the nature of religious experience, arguments for the existence of God, the conflict between reason and faith, immortality, the nature of miracles and the problem of evil.

*Note: This course may not be taken for credit if credit has been received for RELS 255.*

**PHIL 260 Philosophy of Biology (3)**

An examination of philosophical issues within the biological sciences and questions about the epistemological status of biological knowledge. Possible topics include: the nature of life, the relationship between physical and biological sciences, the structure of evolutionary theory and the implications of sociobiology for ethical theories.

**PHIL 265 Philosophy of Science (3)**

An examination of the methodology and conceptual foundations of the sciences, including topics such as the structure of scientific theory, the relation of theory to experiment, the genesis and development of scientific concepts and the evolution of scientific theories.

**PHIL 270 Philosophy of Law (3)**

A philosophical examination of some fundamental features of a legal system, focusing on issues such as the nature and function of law, judicial decisionmaking, legal reasoning, legal responsibility, and the relationship of morality, justice and liberty to a legal system.

**PHIL 275 Feminist Theory (3)**

A study of the connections between gender and knowledge, culture, and social practice. The course investigates the claim that cultural definitions and valuations of masculinity and femininity are reflected in such areas as science, ethics, literature, art and language.

**PHIL 280 Aesthetics (3)**

A philosophical study of beauty and of the creation, appreciation and criticism of works of art.

**PHIL 285 Philosophical Issues in Literature (3)**

A study of selected aesthetic problems related to literature, philosophical themes expressed in literary works and philosophical problems raised by literature.

**PHIL 290 Philosophy and the Cognitive Sciences (3)**

An investigation of philosophical issues at the intersection of philosophy and the cognitive sciences such as psychology, neuroscience, computer science, and linguistics.

**PHIL 298 Special Topics in Philosophy (3)**

An intensive examination of selected topics or issues in philosophy. May be repeated for credit if the subject varies.

*Note: Prerequisite for all 300-courses: either six semester hours in philosophy (other than 120) or permission of the instructor.*

**PHIL 301 Topics in Ethical Theory (3)**

An intensive examination of selected figures, traditions, or issues in ethical theory. May be repeated for credit if the subject matter varies.

**PHIL 304 Nineteenth Century Philosophy (3)**

An examination of philosophical thought during the 19th century, covering thinkers such as Hegel, Marx, Comte, Bentham and Mill.

**PHIL 305 Topics in the History of Philosophy (3)**

An intensive examination of selected figures, traditions, or issues in the history of philosophy. May be repeated for credit if the subject matter varies.

**PHIL 306 20th Century Analytic Philosophy (3)**

A study of major movements in recent Anglo-American philosophy such as Logical Atomism, Logical Positivism and Ordinary Language Philosophy.

**PHIL 307 20th Century Continental Philosophy (3)**

An intensive examination of major figures such as Husserl, Heidegger, Habermas, Foucault and Derrida; movements such as phenomenology and deconstruction; or problems such as representation, the structure of language and the nature of technology.

**PHIL 310 American Philosophy (3)**

A critical treatment of leading philosophers in the United States up to the present with major emphasis on the works of philosophers such as Peirce, James, Royce, Santayana, Dewey and Whitehead.

**PHIL 315 Topics in Political and Social Philosophy (3)**

An intensive examination of selected figures, traditions, or issues in political and/or social philosophy. May be repeated for credit if the subject matter varies.

**PHIL 320 Metaphysics (3)**

A study of various attempts that philosophers have made to formulate consistent and comprehensive conceptual systems regarding the nature of reality.

**PHIL 325 Theory of Knowledge (3)**

An examination of historical and contemporary views concerning answers to the following questions: What is knowledge? Under what conditions are beliefs justified? What is the role of reason and sensory experience in obtaining knowledge? Is anything certain? What is the nature of truth?

**PHIL 330 Philosophy of Mind (3)**

A study of basic issues in the philosophy of mind such as the relationship of mind to body, knowledge of other minds and the nature of mental states. The course may focus on selected topics such as the emotions or artificial intelligence.

**PHIL 335 Philosophy of Language (3)**

A philosophical inquiry into the nature of meaning, reference, truth, and grammar. Topics may include the relation between

language and thought, the relation between language and the world and how much of language is innate.

**PHIL 398 Student Research Associate Program (1-3, Repeatable up to 6)**

Students conduct their own research projects in philosophy under the guidance of a faculty member, or participate in a substantive way in a faculty member's research project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

*Prerequisites:* Overall GPA of at least 3.25; junior standing; and approval by the supervisor and the department.

**PHIL 399 Tutorial (3, Repeatable up to 12)**

Individual instruction by a tutor in regularly scheduled meetings (usually once a week). The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

*Prerequisites:* Junior standing plus approval by the tutor and the department.

**PHIL 450 Senior Seminar in Philosophy (3)**

An intensive examination of a selected perspective or tradition, problem or philosopher. May be repeated for credit.

*Prerequisite:* Junior or senior philosophy major with at least nine previous semester hours in philosophy, one of which must be a 300- level course, or permission of the instructor.

**PHIL 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

# Physical Education Courses

## PEHD 100 Introduction to Physical Fitness (2)

This course presents the principles and methods for developing and maintaining physical fitness. Major emphasis is on developing a personal exercise and nutrition program.

## PEHD 102 Beginning Yoga (2)

A course designed to present the basic philosophy, physical positions and breathing techniques of Yoga. Emphasis is also placed on meditation and positive thinking as a means to reduce stress and increase concentration.

## PEHD 103 Martial Arts (2)

An introduction to the theory and application of Asian martial arts in modern, everyday life. An activity course in which the basics of a martial art will be learned through lecture, demonstration and laboratory experience.

## PEHD 104 Beginning Figure (Ice) Skating (2)

This course is designed to acquaint the student with the basic fundamentals of ice-skating and will progress to more advanced skills. This will be accomplished through classroom lectures, off-ice and on-ice demonstrations and class participation. Class time will primarily focus with on-ice instruction.

*Note: Lab fee required; students will need to provide their own transportation to the off-campus facility.*

## PEHD 105 Basketball & Volleyball (2)

The history, techniques practice of skills and rules of basketball and volleyball.

## PEHD 107 Beginning Swimming (2)

A course designed to teach the non-swimmer how to swim. Emphasis is on proper stroke movements and elementary forms of water safety.

## PEHD 108 Advanced Swimming (2)

A course designed to improve swimming skills with emphasis on stroke mechanics and lifesaving techniques.

## PEHD 109 Aerobics (2)

The main emphasis of this course is the understanding of the basic physiological

principles associated with physical activity and human movement as applied in a cardiovascular aerobic dance workout. The course also includes exercise programs for muscular endurance, strength and toning.

## PEHD 110 Step Aerobics (2)

Students will be introduced to the basic physiological principles associated with aerobic step training and interval training. Exercise, as well as cognitive material from the required text, will be essential requirements in this course.

## PEHD 112 Beginning Gymnastics (2)

An introductory course in gymnastics. The course is designed to provide instruction in the beginning skills on the following apparatus: vault, uneven bars, balance beam and tumbling. Instruction in hand spotting various skills is also taught in this course. No prior gymnastics experience is required. NOTE: Students will need to provide their own transportation to the off-campus facility.

## PEHD 113 Beginning Horseback Riding (2)

The course is designed to provide instruction in the beginning skills of horseback riding and to provide the student with lifetime sports skills that will contribute to his/her physical, mental and social growth. Attention will be given to the development of skills in grooming, horse handling, saddling and bridling, mounting and dismounting, walking and posting.

*Note: Lab fee required; students will need to provide their own transportation to the off-campus facility.*

## PEHD 115 Physical Conditioning & Weight Training (2)

A course designed to teach the accepted methods of developing and maintaining physical fitness. Consideration will be given to diet, nutrition, posture, physical form and the role of resistance exercise in the improvement of physical fitness.

## PEHD 116 Beginning Golf (2)

The history, techniques, practice of skills and rules of golf.

*Note: Lab fee required; students will need to provide their own transportation to the off-campus facility.*

## PEHD 117 Badminton & Racquetball (2)

The history, techniques, practice of skills, and rules of badminton, pickleball and racquetball.

## PEHD 118 Beginning Sailing (2)

The course will provide the student with instruction in the basic fundamentals of sailing. Attention will also be given to the safe, reasonable operation of sailing craft as well as instruction in the proper care and maintenance of sailboats.

*Note: Lab fee required; students will need to provide their own transportation to the off-campus facility.*

## PEHD 119 Beginning Tennis (2)

The history, techniques, practice of skills and rules of tennis.

*Note: Students will need to provide their own transportation to the off-campus facility.*

## PEHD 120 Special Topics (2, Repeatable up to 6)

A course designed to cover a variety of topics not otherwise offered in the basic physical education activity program. Popular activities representing both traditional and non-traditional activities will be offered on a random basis according to interest shown in the activity.

*Note: A lab fee may be required in some special topics courses. Students may also need to provide transportation for some courses.*

## PEHD 130 Intermediate Sailing (2)

The course is designed to provide instruction in the intermediate skills of sailing and to provide the student with lifetime sports skills that will contribute to his/her physical, mental and social growth. Attention will be given to the development of intermediate skills for the safe and responsible operation of sailboats.

*Prerequisite:* PEHD 118 or permission of the instructor.

*Note: Lab fee required; students will need to provide their own transportation to the off-campus facility.*

## PEHD 133 Intermediate Horseback Riding (2)

An introduction to the basics of dressage and jumping for students who have completed beginning horseback riding or have basic skills from previous riding

experience. Students will learn an introductory level dressage test and a simple stadium course.

*Prerequisite:* PEHD 113 or permission of the instructor.

*Note: Lab fee required; students will need to provide their own transportation to the off-campus facility.*

### **PEHD 135 Elementary Jazz Dance (2)**

An introduction to the linear, percussive style of jazz dance, the uniquely American combination of multi-cultural dance styles to the world of dance. An activity course in which the basics of jazz dance will be learned. Crosslisted with THTR 135.

### **PEHD 137 Elementary Modern Dance (2)**

Introduction to the technique of modern dance. Emphasis on basic movement forms of modern dance and elementary improvisational techniques. Crosslisted with THTR 137.

### **PEHD 138 Intermediate Modern Dance (2)**

Instruction at the intermediate level in technique of modern dance. Emphasis upon building the basic movement forms as taught in elementary modern dance into patterns, repetitions and variations used in the structuring of dance pieces. Review of the choreography work of the founders of modern dance.

*Prerequisite:* THTR/PEHD 137.  
Crosslisted with THTR 138.

### **PEHD 139 African Dance (2)**

The course focuses on broadening and enhancing the student's understanding of African Dance in regard to the origin, performing arts techniques, suggested realism and expressionism of the art form. Students will also recognize drum rhythms for each dance and perform each dance.

### **PEHD 185 Elementary Ballet (2)**

Introduction to techniques and terminology of classical ballet. Emphasis is on practical application, including barre and center floor work. Crosslisted with THTR 185.

### **PEHD 186 Intermediate Ballet (2)**

Instruction at the intermediate level in the technique of classical ballet. Intermediate barre, center floor work, and

combinations are included. Crosslisted with THTR 186.

### **PEHD 201 Introduction to Physical Education (3)**

A required introductory course for physical education majors. Content will include a study of history, principles, objectives, philosophy, current trends and issues, and literature related to physical education, health and exercise science.

*Note: PEHD 201 is a prerequisite for all 300-level or above courses for prospective physical education majors.*

### **PEHD 202 Laboratory Activities in Physical Education (2)**

A course designed to provide the student an exposure to a variety of activities in the areas of outdoor adventure, team sports and individual sports. Acquisition of basic knowledge and skill competencies for the future physical educator is a primary component.

*Note: A fee is required for this class and students are responsible for their own transportation to off-campus meeting and activity sites.*

### **PEHD 210 Concepts in Fitness Assessment Exercise Prescription (3)**

This course is designed to give the student an initial fitness assessment and exercise prescription experiences. Basic concepts of assessment and physical training will be covered. Students will implement an individual training program and demonstrate proficiency in assessment techniques of various skills and health-related fitness components.

### **PEHD 222 Analysis and Conduct of Lifetime Activities (3)**

Designed to teach the teacher candidate how to analyze, conduct and demonstrate lifetime sports activities in a variety of teaching settings. Emphasis will be placed on methods for determining students' capacities in relation to the various activities and teaching techniques appropriate to facilitate the acquisition of the various skills. Students will be expected to teach and perform skills in micro teaching sessions.

*Note: Students are responsible for their own transportation to off-campus meeting and activity sites.*

### **PEHD 223 Analysis & Conduct of Team Sport (3)**

Designed to teach the teacher candidate how to analyze, conduct and demonstrate team sports in a variety of teaching settings. Emphasis will be placed on methods for determining students' capacities in relation to the various activities and teaching techniques appropriate to facilitate the acquisition of the various skills. Students will be expected to teach and perform skills in micro teaching sessions. Field experience required.

### **PEHD 235 Motor Learning and Development (3)**

The course focuses on skill acquisition with primary consideration being given to the cognitive and motor processes underlying the learning of skills across the lifespan. Topics covered include (but are not limited to) motor control, attention, individual differences, practice and knowledge of results, transfer of learning and motivation.

### **PEHD 250 Dance and Rhythms (3)**

Designed to instruct the student in the teaching techniques of dance and rhythmic activities. Practical application will be gained through the teaching of mini-lessons in the class.

### **PEHD 252 Outdoor Education (3)**

An introductory course designed to provide the student a number of outdoor adventure experiences that are available in the region. Activities vary and may include rock climbing, sea kayaking, whitewater kayaking and camping. Through these experiential opportunities, a number of new skills and interests should be fostered.

*Note: Lab fee required; students will need to provide their own transportation to off-campus facilities for some classes.*

### **PEHD 320 Special Topics in Physical Education (3, Repeatable up to 12)**

Studies in topics of current interest designed to supplement offerings in the department or to investigate an additional specific area of physical education.

*Prerequisite:* PEHD 201 or permission of the instructor.

### **PEHD 330 Kinesiology (3)**

This course explores the techniques of human motion analysis. Particular emphasis is placed on the anatomical,

mechanical and physical principles of motion analysis.

*Prerequisites:* BIOL 202 and PEHD 201.

#### **PEHD 340 Exercise Physiology and Lab (4)**

The major objective of this course is to assist the student in gaining an understanding and appreciation of the physiological and metabolic adaptations accompanying physical work.

*Prerequisites:* BIOL 201 and PEHD 201.

#### **PEHD 342 Techniques and Strategies of Coaching (3)**

This course will investigate a variety of coaching techniques and strategies. It will provide students with a basic understanding of coaching at all levels: youth, elementary, high school, college and professional. This course is designed to assist coaches in developing effective organizational, motivational and teaching strategies to guide successful programs.

#### **PEHD 352 Physical Education in Elementary Schools (3)**

The course is designed to teach basic requirements, principles, and concepts for conducting physical education in an elementary school setting. Focus will be on constructing and implementing developmentally appropriate movement and fitness experiences for elementary school learners from diverse backgrounds, with an emphasis on reflective teaching. Field experiences required.

*Prerequisites:* PEHD 201 and 222 or 223 and acceptance into the Teacher Education Certification Program.

*Note: Students are responsible for their own transportation to off-campus field experience sites.*

#### **PEHD 352L Physical Education Field Experience in the Elementary Grades (1)**

The course is designed to engage candidates in a structured field experience in K-5 public schools. Candidates are required to complete at least 30 hours divided into three phases: 1. Observations, 2. Assistant teaching and 3. Full teaching - where interns are responsible for planning, implementation, and assessment of student performance.

*Co-requisite:* PEHD 352.

#### **PEHD 355 Sport Psychology (3)**

The scientific study of human behavior in the context of participating in sport and how sport performance is affected by the athlete, the team and its leadership, as well as by the physical and interpersonal environment in which these individuals interact. This course is crosslisted as PSYC 355 in which candidates may receive general education social science credit.

*Prerequisites:* PEHD 201 and PSYC 103 or permission of the instructor.

*Note: A student may not receive credit for PEHD 355 if credit has been received for PSYC 355.*

#### **PEHD 399 Physical Education Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* PEHD 201, junior standing plus permission of the tutor and the department chair.

#### **PEHD 401 Independent Study In Physical Education (1-3, Repeatable up to 9)**

Designed to give the candidate individually structured study and experience in allied areas such as cardiac rehabilitation, athletic training, pre-physical therapy, fitness and recreation, or others approved by the department.

*Prerequisites:* PEHD 201 and permission of the department and instructor.

#### **PEHD 403 Physical Education Internship and Practicum (6)**

Candidates are placed in cooperating hospitals, clinics, fitness centers and recreation departments in areas of interest (cardiac rehabilitation, pre-physical therapy, etc.). The practicum is a laboratory class that requires participation in the daily activities of an assigned agency and in on-campus seminars.

*Prerequisites:* A senior physical education major with a minimum GPA of 2.5 overall. In addition, an application must be submitted to the health coordinator at least one year before the semester in which the internship would be taken. The applicant must be approved by the PEHD department. A candidate may not take PEHD 403 and HEAL 403. (Participation in the field experience

requires satisfactory completion of 12 semester hours at or above the 300 level in health and/or physical education related courses.)

#### **PEHD 431 Tests and Measurements (3)**

The course explores the unique measurement tools used for the assessment of human physical performance. Particular emphasis is placed on the design and use of instruments for assessment in body mechanics, sports skills, fitness and motor skills, as well as in the use and interpretation of standardized tests in the field. The application of statistical analysis procedures essential for the evaluation of such measures is included.

*Prerequisites:* PEHD 201, junior standing plus MATH 104 or equivalent; knowledge of microcomputers.

#### **PEHD 433 Research Design and Analysis (3)**

This class will focus on data collection and interpretation in health and exercise science, including common physiological, biomechanical, anatomical, and health-related variables. Emphasis is placed on the development of a clinical research question and the appropriate procedures to further the body of knowledge in the area of health and exercise science.

*Prerequisites:* PEHD 330, PEHD 340, and MATH 104 or equivalent; or permission of the instructor.

#### **PEHD 438 Advanced Topics in Resistance Training and Conditioning (3)**

This course is designed to apply theoretical knowledge in the areas of exercise science toward the development of an optimal resistance training and conditioning program. Emphasis will be placed on achieving peak athletic performance through a longterm manipulation of the program design.

*Prerequisites:* BIOL 201/202, PEHD 340/Lab, or permission of the instructor.

#### **PEHD 439 Advanced Topics in Exercise Physiology (4)**

This course is designed to provide students with indepth application of advanced physiological systems, exercise biochemistry and cardiorespiratory physiology to numerous populations (pediatric, aging, obese, diabetic, expectant, sport specific athletic, etc.).

The contents of this course will build on the foundation of material covered in PEHD 340 Exercise Physiology.

*Prerequisites:* PEHD 340/Lab and permission of the instructor.

#### **PEHD 440 Biomechanics (3)**

The course will focus on the mechanical basis of human movement, with some consideration given to the anatomical constraints that influence all types of human movement, from athletic to pathological. Topics covered will include: kinematics of movement (linear and angular), kinetics (linear and angular), equilibrium and fluid mechanics.

*Prerequisites:* PEHD 201, PEHD 330, BIOL 202, PHYS 101.

#### **PEHD 452 Physical Education for Middle/Secondary Schools (3)**

The course is designed to place emphasis on curriculum development and planning for teaching and evaluating movement in middle/secondary school physical education. Focus is on constructing and implementing developmentally appropriate movement and fitness experiences for middle/secondary school learners from various backgrounds. Field experiences required.

*Prerequisites:* PEHD 201 and 352.

*Note: Students are responsible for their own transportation to off-campus field experience sites.*

#### **PEHD 452L Physical Education Field Experience in Middle/ Secondary Schools (1)**

This course emphasizes planning for teaching and evaluating movement in middle/secondary school physical education. Focus is on constructing and implementing developmentally appropriate movement and fitness experiences. Candidates must complete 5 hours in a health education class, 15 hours in a Middle school, and 10 hours in the high school environment.

*Co-requisite:* PEHD 452.

#### **PEHD 457 Adapted Physical Education (3)**

Course designed to prepare candidates to construct and implement an appropriate physical education and recreation curriculum for the learner that is disabled. Field experience required.

*Prerequisites:* PEHD 352 and 452 or permission of the instructor.

*Note: Students are responsible for their own transportation to off-campus field experience sites.*

#### **PEHD 457L Field Experience in Adapted Physical Education (1)**

Adapted physical Education course is designed to prepare Teacher Education candidates for the construction and implementation of appropriate physical education (PK-12) curriculum to learners with a disability. This course involves field experience in a public school environment for at least 30 hours.

*Co-requisite:* PEHD 457.

#### **PEHD 458 Organization and Administration in Physical Education (3)**

A course covering the organization, planning, implementation and administration of physical activity and sport programs.

*Prerequisites:* PEHD 201 and senior (90 hours plus) status. For teacher certification majors PEHD 352 or 452 is a prerequisite.

#### **PEHD 498 Capstone Exp in Exercise Science (2)**

The capstone experience is a culmination of coursework in exercise science. It provides the opportunity to critically analyze and conduct contemporary research, practice in a clinical setting, evaluate the current and future trends in the discipline and discuss personal and professional challenges that will exist following commencement.

*Prerequisites:* PEHD 433 and permission of the instructor.

#### **PEHD 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The candidate must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## Physics Courses

### **PHYS 101 Introductory Physics I (3)**

A general physics course intended for those students who plan to take only one physics sequence. Subjects covered are: mechanics (vectors, linear and rotational motion, equilibrium, and gravitational fields); heat (mechanical and thermal; properties of solids, liquids, and gases); and wave motion. Upon completion of 101 with a grade of B or better and successful completion of math 120, a student may transfer to PHYS 112. PHYS 101 is not open to students who have passed PHYS 111 or HONS 157. Lectures three hours per week.

*Co-requisite or prerequisite:* PHYS 101L.

*Note: A working knowledge of algebra and simple trigonometry is assumed.*

### **PHYS 101L Introductory Physics Laboratory (1)**

A laboratory program to accompany PHYS 101. Laboratory three hours per week.

*Co-requisite:* PHYS 101 is a co-requisite or prerequisite for PHYS 101L.

### **PHYS 102 Introductory Physics II (3)**

A continuation of PHYS 101. Subjects covered are: electricity (electric fields, AC and DC circuits); magnetism; optics (geometric and physical); and modern physics. PHYS 102 is not open to students who have passed PHYS 112 or HONS 158. Lectures three hours per week.

*Prerequisite:* PHYS 101 or HONS 157.

*Co-requisite or prerequisite:* PHYS 102L.

### **PHYS 102L Introductory Physics Laboratory (1)**

A laboratory program to accompany PHYS 102. Laboratory three hours per week.

*Prerequisite (or co-requisite):* PHYS 102.

### **PHYS 105 Introduction to Meteorology (3)**

Survey of the most important topics in meteorology. Sample topics include cloud formation, violent storms, thunder and lightning, rainbows, rain and snow, climate and forecasting. Lectures three hours per week.

*Prerequisite:* A working knowledge of high school algebra is assumed.

*Note:* No credit for both PHYS 105 and PHYS 456.

### PHYS 111 General Physics I (3)

Introduction to principles of physics primarily for scientists and engineers. Subjects covered are mechanics (vectors, linear and rotational motion, equilibrium and gravitational fields); heat (mechanical and thermal properties of solids, liquids and gases); and wave motion. Lecture three hours per week; laboratory three hours per week.

*Co-requisite or prerequisite:* MATH 120 or equivalent or permission of the instructor.

*Co-requisite:* PHYS 111L.

### PHYS 111L General Physics I Lab (1)

Introduction to principles of physics primarily for scientists and engineers. Subjects covered are mechanics (vectors, linear and rotational motion, equilibrium and gravitational fields); heat (mechanical and thermal properties of solids, liquids and gases); and wave motion. Lecture three hours per week; laboratory three hours per week.

*Co-requisite or prerequisite:* MATH 120 or equivalent or permission of the instructor.

*Co-requisite:* PHYS 111.

### PHYS 112 General Physics II (3)

A continuation of PHYS 111. Subjects covered are: electricity (electric fields, AC and DC circuits); magnetism; light (geometric and physical optics, spectra); and modern physics (relativity and nuclear physics). Lectures three hours per week; laboratory three hours per week.

*Prerequisites:* PHYS 111 or HONS 157.

*Co-requisite or prerequisite:* MATH 220 or equivalent or permission of the instructor.

*Co-requisite:* PHYS 112L.

*Note:* Upon completion of PHYS 101 with a grade of B or better and successful completion of MATH 120, a student may transfer to PHYS 112.

### PHYS 112L General Physics II Lab (1)

A continuation of PHYS 111. Subjects covered are: electricity (electric fields, AC and DC circuits); magnetism; light

(geometric and physical optics, spectra); and modern physics (relativity and nuclear physics). Lectures three hours per week; laboratory three hours per week.

*Prerequisite:* PHYS 111 or HONS 157.

*Co-requisite or prerequisite:* MATH 220 or equivalent or permission of the instructor.

*Co-requisite:* PHYS 112.

### PHYS 119 Celestial Navigation (3)

The theory and practice of celestial navigation is developed. Topics include the sextant, time, the Nautical Almanac, the spherical triangle, sight reduction tables, altitude corrections, navigational astronomy, lines of position, complete fixes and star identification. Lectures two hours per week.

### PHYS 150 Physics of Sound and Music (3)

An investigation of mechanical and electronic generation of sound; propagation of sound; perception of sound and music; the acoustics of vocal and instrumental music; musical elements such as pitch, loudness, and timbre; and musical constructs such as scales, temperament and harmony. This course is team-taught by physics and fine arts faculty. Lectures three hours per week. A working knowledge of high school algebra is assumed.

### PHYS 203 Physics and Medicine (3)

The application of physics to a variety of medical issues. Topics include basic concepts such as force and energy as well as more advanced topics such as photophysics and diagnostic instrumentation. Useful for students who intend to become medical professionals and students interested in the applications of physics to medicine.

*Prerequisite:* PHYS 102, PHYS 112 or HONS 158.

### PHYS 230 Introduction to Modern Physics (3)

An introduction to atomic and nuclear physics. Topics include: relativity, atomic theory, x-rays, wave particle duality and elements of quantum mechanics. Lectures three hours per week.

*Prerequisite:* PHYS 112 or HONS 158.

*Co-requisite or prerequisite:* MATH 221 or permission of the instructor.

### PHYS 260 NASA Space Mission Design (2)

Students work on teams with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisites:* PHYS 101, 101L/PHYS 102, 102L or PHYS 111, 111L/PHYS 112, 112L or HONS 157, 157L/HONS 158, 158L or permission of instructor.

*Co-requisites:* PHYS 260L or PHYS 460L

### PHYS 260L NASA Space Mission Design Lab (1)

Lab students work on teams with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisites:* PHYS 101, 101L/PHYS 102, 102L or PHYS 111, 111L/PHYS 112, 112L or HONS 157, 157L/HONS 158, 158L or permission of instructor.

*Co-requisite:* PHYS 260

### PHYS 270 Nanotechnology in Medicine (3)

An introductory level interdisciplinary course covering nanotechnology and its use in medicine. Students will learn the basic physics behind smart nanobiomaterials, nanobiosensors, and DNA motifs. They will also learn nanotechnology in cancer treatment and drug delivery, medical imaging using quantum dots, nanofabrication, characterization tools used in nanotechnology, and nanotoxicology.

*Co-requisite or prerequisite:* PHYS 102 or PHYS 112 or HONS 158 or permission of the instructor.

### PHYS 296 Biophysical Modeling of Excitable Cells (3)

An introduction to the concepts and methods of computer modeling of excitable cells. Topics include basic electrophysiology of excitable cells, biophysics of ion conduction,

mathematical modeling of activation/inactivation mechanisms using experimental data, and computer simulations.

*Prerequisites:* BIOL 111/112 and PHYS 112/HONS 158 or BIOL 211/305 and PHYS 102/PHYS 112/HONS 158 or the permission of the instructor.

#### **PHYS 298 Special Topics (1-3)**

An examination of an area in physics in which a regular course is not offered.

*Prerequisite:* Permission of the instructor and chair.

#### **PHYS 301 Classical Mechanics (3)**

Newtonian dynamics of particles and rigid bodies, relativistic mechanics, Lagrangian and Hamiltonian mechanics and waves. Lectures three hours per week.

*Prerequisites:* PHYS 112 or HONS 158, and MATH 323, or permission of the instructor.

#### **PHYS 302 Classical Mechanics (3)**

A continuation of PHYS 301.

*Prerequisite:* PHYS 301.

#### **PHYS 308 Atmospheric Physics (3)**

An introduction to the study of the Earth's atmosphere. Topics covered include atmospheric thermodynamics, synoptic meteorology, violent storms, radiative transfer, basic modeling, ozone depletion, acid rain and global warming. Lectures three hours per week.

*Prerequisite:* PHYS 112 or HONS 158 or permission of the instructor.

#### **PHYS 320 Intro to Electronics (4)**

Basic principles of electronics and their application to instrumentation for students preparing for research in applied mathematics, medicine, biology, physics and chemistry. Lectures three hours per week; laboratory three hours per week.

*Prerequisite:* PHYS 102 or PHYS 112 or HONS 158 or permission of the instructor.

#### **PHYS 331 Introduction to Modern Physics II (3)**

A continuation of PHYS 230. Topics include: statistical mechanics, solid state physics and nuclear physics. Lectures three hours per week.

*Prerequisite:* PHYS 230 or permission of the instructor.

#### **PHYS 340 Photonics (4)**

An intermediate lecture and lab-based course in modern optics. Topics covered include: the wave equation, interference, diffraction, polarization, holography, spectroscopy, lasers, second harmonic and terahertz generation, optical communication, optical materials, and biophotonics. Lectures three hours per week; laboratory three hours per week.

*Prerequisite:* PHYS 112 or HONS 158 or permission of the instructor.

#### **PHYS 350 Energy Production (4)**

The science and technology of solar, nuclear, fuel cell, geothermal, wind, hybrid, and other energy systems. A study of the nature of energy and scientific issues relating to its production, storage, distribution, and use from a physics perspective. Lecture and lab.

*Prerequisites:* CHEM 111 + (PHYS 112 or HONS 158 or (PHYS 102 + MATH 120))

#### **PHYS 370 Experimental Physics (4)**

An opportunity for students to develop experimental, analytical and research techniques through lecture and extensive laboratory experiences. Scientific report writing will be stressed.

*Prerequisite:* PHYS 230 or permission of the instructor.

#### **PHYS 381 Internship (1-4)**

A student will gain professional experience as an intern at a private firm or government agency. A written proposal must be approved through the Department Internship Coordinator prior to enrolling in the course. At least 40 hours of work is required for each 1 credit awarded for the course.

*Prerequisites:* Physics majors and PHYS 370 or permission of the coordinator.

#### **PHYS 390 Research (1-3, Repeatable up to 6)**

Literature and/or laboratory investigations of specific problems in physics or astronomy. The topic of the investigations will be determined by the interests of the student in consultation with the department faculty. Open to exceptional students and particularly suited to those intending to continue toward a graduate degree.

*Prerequisite:* Permission of the instructor and chair.

#### **PHYS 397 Research Experience Physics/Astronomy (0)**

A student works under faculty supervision to learn a research method, to explore possible research topics, or to continue an ongoing study. The faculty member helps the student to determine the course goals and objectives, and supervises the execution of project. The student will provide a written report to the faculty at the end of the semester. Students will receive a grade of "S" (satisfactory) or "U" (unsatisfactory) for the course.

*Prerequisites:* Only majors may take a Zero Credit Research course. Permission of the instructor and approval of the department chair.

#### **PHYS 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing plus permission of the tutor and the department chair.

#### **PHYS 403 Introductory Quantum Mechanics (3)**

Wave-particle duality; the wave function; general principles of quantum mechanics; systems in one, two and three dimensions; electron spin; perturbation theory; scattering theory; electromagnetic radiation; systems containing identical particles; and applications. Lectures three hours per week.

*Prerequisite:* PHYS 230.

*Co-requisite or prerequisite:* MATH 323 or permission of the instructor.

#### **PHYS 404 Introductory Quantum Mechanics (3)**

A continuation of PHYS 403.

*Prerequisite:* PHYS 403 or permission of the instructor.

#### **PHYS 405 Thermal Physics (3)**

Thermal Physics is an introduction to quantum statistical mechanics, thermodynamic functions and the laws of thermodynamics. There is an emphasis on the application of the fundamental concepts to astrophysics, electromagnetic radiation, low-temperature physics and solid-state physics.

*Prerequisite:* PHYS 230.

*Co-requisite:* MATH 323 or permission of the instructor.

### **PHYS 407 Introduction to Nuclear Physics (3)**

An introduction to the theory of the nucleus, including constituents of the nucleus; nuclear forces and structure; natural and induced radioactivity; properties of alpha, beta and gamma radiation; particle accelerators; and fission, fusion and nuclear reactors. Lectures three hours per week.

*Prerequisite:* PHYS 230 or permission of the instructor.

### **PHYS 408 Introduction to Solid State Physics (3)**

A survey of the fundamental principles determining the macroscopic properties of solids. The lattice system and the electron system are investigated as a basis for understanding dielectric, magnetic, optical, semiconductive and superconductive behavior in solids. Lectures three hours per week.

*Prerequisite:* PHYS 230 or permission of the instructor.

### **PHYS 409 Electricity and Magnetism (3)**

An intermediate course in electricity and magnetism. Subjects to be covered will include electric fields, magnetic fields, electric current, Maxwell's equations, conductors, dielectrics and magnetic materials. Lectures three hours per week.

*Prerequisites:* PHYS 112 or HONS 158, and MATH 323 or permission of the instructor.

### **PHYS 410 Electricity and Magnetism (3)**

A continuation of PHYS 409.

*Prerequisite:* PHYS 409.

### **PHYS 412 Special Topics (1-3)**

An examination of an area in physics in which a regular course is not offered.

*Prerequisite:* Permission of the instructor.

### **PHYS 415 Fluid Mechanics (3)**

An introduction to fluid mechanics that develops physical concepts and formulates basic conservation laws. Topics include fluid statics, kinematics, stresses in fluids, flow of real (viscous) fluids and compressible flow. Lectures three hours per week.

*Prerequisites:* MATH 323 and PHYS 301 or permission of the instructor.

### **PHYS 419 Research Seminar (1)**

This course will normally be conducted in the fall semester of the student's senior year and consists of successfully preparing and presenting a research proposal. This course is intended to prepare the student for PHYS 420.

*Co-requisite or prerequisite:* PHYS 370 or ASTR 377 or permission of the instructor.

### **PHYS 420 Senior Research (3)**

Conducting, writing, and presenting the results of the research project prepared in PHYS 419. The presentation must be at a scientific forum approved by the research advisor. This course will normally be taken during the spring semester of the senior year.

*Prerequisites:* PHYS 419 and permission of the instructor and chair; no credit for both PHYS 420 and PHYS 499.

### **PHYS 456 Air Pollution Meteorology (4)**

An introduction to the basics of air pollution science. Course begins with a summary of underlying meteorology and atmospheric physics and then covers the atmospheric radiation budget, atmospheric circulation, aerosols, atmospheric chemistry (acid rain, ozone hole), short-term atmospheric change, atmospheric chemical models and air quality. Lecture four hours per week.

*Prerequisites:* PHYS 112 (or PHYS 102 and MATH 120) or HONS 158, and CHEM 112, or permission of the instructor.

*Note:* A student may not receive credit for both PHYS 105 and PHYS 456.

### **PHYS 457 Satellite Meteorology (3)**

Satellite meteorology is the measurement of the weather by sensors aboard Earth-orbiting satellites. Topics include satellite orbits and navigation; electromagnetic radiation; instrumentation; image interpretation; atmospheric temperature, winds, clouds, precipitation and radiation. Lectures three hours per week.

*Prerequisites:* PHYS 308; or PHYS 456; or both PHYS 105 and one of PHYS 112, or PHYS 102 and MATH 120, or HONS 158; or permission of the instructor.

### **PHYS 458 Climate Change (4)**

An introduction to the study of the physics of the Earth's climate. Topics include climatic classification, the spectrum of radiation, absorption, scattering, transmission, radiation, the tropospheric energy balance, the energy balance at the Earth's surface, time variations in the energy balance, the atmospheric transport of energy, the atmosphere as a heat engine, CFCs and stratospheric ozone, the carbon cycle, other greenhouse gases, climate heating, integrated assessment of models and human activities affecting climate change. In addition, some of the policy issues associated with such human activities will be addressed. Lecture four hours per week with some laboratory exercises included.

*Prerequisite:* PHYS 112 (or PHYS 102 and MATH 120), or HONS 158, or permission of the instructor; CHEM 112 would be helpful, but is not required.

### **PHYS 460L NASA Space Mission Design Leadership Lab (1)**

Lab students lead local teams and work with engineering students at another university to design unmanned NASA satellite missions. Student teams interactively participate through presentations, assigned readings, on-line discussions, classroom exercises and dynamic activities, and compete for best mission with final projects being evaluated by a panel of NASA experts.

*Prerequisites:* Permission of instructors

*Co-requisite:* PHYS 260

### **PHYS 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course. A student may not receive credit for both PHYS 420 and PHYS 499.

# Political Science Courses

## **POLS 101 American Government (3)**

American Government examines the structure, context, functions and problems of American national government. **NOTE:** This course is required of all political science majors and minors and must be completed within the first 15 hours of political science courses.

## **POLS 102 Contemporary Political Issues (3)**

An introductory course for majors and non-majors that emphasizes the analysis of current domestic and international issues. Issues covered will vary from semester to semester.

## **POLS 103 World Politics (3)**

This course examines the dynamics of international politics, including in-depth coverage of relevant actors, the nature of the state system, cooperation and conflict, global economic interdependence, international institutions and issues like the role of human rights in international affairs.

## **POLS 104 World Regional Geography (3)**

World Regional Geography introduces the geographic nature of a variety of topics including population growth, the organization of religions, and resource problems. Both the location of these activities and the processes that led to their patterns are explored using examples from throughout the world.

*Note: Political science majors and minors must take either POLS 103 or POLS 104 within the first 15 hours of political science coursework. Cross-listed with GEOG 101. Students may not earn credit for both courses.*

## **POLS 119 Special Topics in Politics (3)**

This course examines special topics and issues in politics not covered in political science courses. This course may be repeated as topic changes.

## **POLS 200 Introduction to Public Administration (3)**

Introduction to Public Administration analyzes the basic principles, functions

and practices of public organizations and public management.

*Prerequisite:* POLS 101.

## **POLS 201 Introduction to Public Policy (3)**

Introduction to Public Policy examines the cultural, economic and institutional context that shapes public policy in the United States. The course assesses how, why and when government responds to some policy problems and not others and the process by which alternative solutions are formulated, adopted and implemented. Implications for solving public problems, and for resolving moral and political disagreements in a manner consistent with democratic ideals, are considered.

*Prerequisite:* POLS 101.

## **POLS 210 Introduction to Comparative Political Analysis (3)**

This course surveys theories and methodologies in comparative political analysis. It includes an examination of concepts, types and levels of analysis and methods of inquiry in the comparative study of politics.

## **POLS 220 Criminal Justice (3)**

Criminal Justice analyzes the criminal justice system, from defining crimes through arrest to conviction and sentencing, with emphasis on the relationships between the actors and institutions in the system and the purposes served by the system.

## **POLS 221 Law and Society (3)**

This is a course designed to introduce students to the legal method of deciding disputes through the study of classical principles of contract law. In the second half of the course, students will demonstrate analytical principles by confronting intractable issues facing society.

## **POLS 250 Politics and Political Inquiry I (3)**

This course is designed to provide the political science major with an introduction to a set of key concepts in political theory and to the historical development of Western political theory. The student will work with primary and secondary literature in political theory and will gain an understanding of how political theorists from Plato to Rawls have attempted to create theories of

politics and visions of political order in response to the crises and problems of their time and in light of the work of the political theorists that preceded them.

*Note: This course is the prerequisite for POLS 251. It is required of majors and minors and must be completed within the first 15 hours of political science coursework.*

## **POLS 251 Politics and Political Inquiry II (3)**

An introduction to the contemporary nature and practice of political science, this course includes an overview of what political scientists study as well as an examination of the various approaches to inquiry, which they utilize.

*Prerequisite:* POLS 250.

*Note: This course is required of majors and must be completed within the first 15 hours of political science coursework.*

## **POLS 301 Bureaucratic Politics and Policy (3)**

Examines the role of public bureaucracies and public/ private partnerships in shaping and implementing public programs.

*Prerequisites:* POLS 101 and POLS 200.

## **POLS 302 Policy Evaluation (3)**

Policy Evaluation reviews the strategies for analyzing performance and goal achievement in the public sector. The course includes a survey of the criteria, methodology and analytical techniques employed in evaluating government programs.

*Prerequisites:* POLS 101 and POLS 201 or permission of the instructor.

## **POLS 304 American Foreign Policy Process (3)**

American Foreign Policy Process surveys the process by which American foreign policy is made. The course extends beyond the traditional institutions of the presidency and Congress to encompass other actors like courts, the states, the media, the public and the international policy environment.

## **POLS 305 Urbanization and Urban Geography (3)**

Urbanization and Urban Geography analyzes the process of urbanization and contemporary urban trends and issues. Topics investigated include the evolution of neighborhoods, social conflict over access to resources and the future of urbanism as a way of life. Students will

have the opportunity to explore the city through field trips and an analysis of a local urban issue.

**POLS 306 Urban Policy (3)**

Urban Policy examines the urban service system and policy formulation and implementation processes. The potential advantages and disadvantages of citizen participation in local policy implementation are assessed. Specific urban issues are examined and the barriers to formulating a national urban policy are identified.

*Prerequisite:* POLS 101.

**POLS 307 Environmental Policy (3)**

This course is intended to familiarize students with various ethical frameworks, analytical tools and policy instruments that can be used to evaluate environmental problems and policy options. Specific issues may include citizen participation, environmental equity, the uses and abuses of cost-benefit analysis, science and uncertainty in environmental policy development and the use of regulatory requirements vs. market mechanisms for environmental protection.

**POLS 308 Education Policy (3)**

This course will examine the goals and processes of public education policy-making in the United States. Issues of access, accountability, delivery systems, funding, efficiency and quality will be explored. The actors, institutions, processes, and influences that help to inform these and other policy questions will be addressed.

**POLS 309 Health Policy (3)**

This course will explore the major policy issues, problems, and challenges in the management and delivery of health care in the United States. The actors, institutions, processes, and internal/external influences that inform federal, state and local policy decisions on these issues will be explored.

**POLS 310 Environmental Geography (3)**

Environmental Geography examines human interactions with the environment and environmental change. Whereas environmental politics focuses on the role of politics in environmental management, environmental geography investigates the role that knowledge, culture, economic

systems, gender and identity, and the everyday politics of communities and households play in shaping human-environment interactions.

**POLS 319 Special Topics in Public Administration and Public Policy (3)**

These courses examine an advanced topic in public administration or public policy.

**POLS 321 Politics of Latin America (3)**

Politics of Latin America surveys political and related economic and social dynamics in Latin American nations.

**POLS 322 Politics of Africa (3)**

Politics of Africa surveys political and related economic and social dynamics in selected African nations.

**POLS 323 Politics of East Asia (3)**

Politics of East Asia analyzes the national and international politics of China and Japan with emphasis on political, social and economic patterns and processes. Cultural tradition, policymaking and the international context will be examined.

**POLS 324 Politics of the Middle East (3)**

Politics of the Middle East surveys the political, economic and social structures and forces that make up the essence of Middle East politics and shape the region's place in the world.

**POLS 328 Modernization, Dependency and Political Development (3)**

This course examines the major theories of development and underdevelopment. The class addresses the domestic and international political, social and economic factors that promote or retard development in Africa, Latin America, Asia and the Middle East.

**POLS 329 Politics of Protest and Revolution (3)**

This course undertakes a comparative study of protest and revolution in industrialized and non-industrialized countries. The political, economic, and social conditions that give rise to protest and revolution will be examined. Reform movements, revolts and revolutions, both historical and contemporary, will be compared from a cross-system perspective.

**POLS 330 Comparative Gender Politics (3)**

This course uses gender as a comparative analytic framework to examine a variety

of important issues including human rights, economic development, labor and property control, violence against women, family and health concerns and the role women play as political actors and leaders in formulating policy across a number of different countries.

**POLS 331 The Politics of Film and Reality in South Africa (3)**

This course analyzes the role of the media, particularly commercial films, in creating and reinforcing images of African politics. Focused most specifically on films related to South Africa, the course develops analytical skills and substantive perspectives on the study of politics in African countries.

**POLS 332 The Politics of Film and Reality in Latin America (3)**

This course examines the portrayal of Latin American politics in contemporary Latin American and non-Latin American film. The class will focus on major issues of race, class, gender, culture, nationalism, imperialism, religion, power and values as well as examining the typical stereotypes of Latin American politics and culture. It also examines the history of Latin American relations with the U.S. and the perception of those relations.

**POLS 333 The Politics of Contemporary Brazil (3)**

This course introduces the student to the politics of Latin America's largest, most populous and most important country. A brief introduction that covers the period of Portuguese colonization as well as early independence and national eras will be followed by an intensive focus on the period from the presidency of Getulio Vargas to the present. Special attention will be given to the era of military government in the 1960s to the "abertura," which opened the door to democratization in the 1990s and the present period of President Henrique Cardoso.

**POLS 334 Geographies and Politics of the European Union (3)**

A comprehensive introduction to the European Union, structured around the changing geographies of the European space and a chronology of developments in Europe from the Second World War. The course will chart the emergence of the initial European Communities and

follow changes as these communities evolve into today's European Union.

### **POLS 335 Cuban Revolution (3)**

This course is an in-depth and experiential examination of the Cuban Revolution. Students will live in Cuba for one to three months studying the history, progress and current condition of the revolutionary process in Cuba. Offered as a travel course only.

### **POLS 336 Geographies and Politics of Food (3)**

Our relationship to food has changed radically over recent centuries and this continues today. This course focuses on the technologization of the production and harvesting of food, to explore the paradox of food anxiety driven by, for example, obesity, food security and safety and to chart global food sourcing and its inequities.

### **POLS 337 Geography and Politics of the U.S. and Canada (3)**

This course focuses on the physical and human processes that shape the United States and Canada and explores their implications for urbanization, immigration and cultural change, environmental sustainability and national and economic security in two countries.

### **POLS 338 Chinese Politics (3)**

This course examines contemporary Chinese politics in a comparative perspective. China is a rapidly modernizing country with growing global influence. We will address theoretical and methodological questions in China studies. Key topics include political culture, leadership transition, economic reform, environment and population, and state-society relations.

### **POLS 339 Special Topics in Comparative Politics (3)**

These courses examine selected topics in comparative politics not covered in other courses.

### **POLS 340 Democratic and Anti-Democratic Thought (3)**

This course focuses on democratic theory and its enemies. Students will read a variety of democratic and anti-democratic theorists and, on the basis of these readings, examine the various contending definitions of democracy, assess the value of democracy and evaluate the

arguments of those opposed to democracy. Theorists will include: Rousseau, Marx, Cole, MacPherson, Michels, Mosca, Pareto, Schumpeter and Spitz.

### **POLS 341 Constitutional Law (3)**

This course concentrates on the American Constitution. Topics focus on the power relationships between the executive, legislature, judiciary and state governments, including the commerce clause, war powers of the executive, legislative powers to tax and spend, judicial review and the doctrines and principles of American constitutionalism.

*Prerequisite:* POLS 101.

### **POLS 342 Civil Liberties (3)**

This course is largely a study of basic individual liberties found in the American Constitution and interpreted by the U.S. Supreme Court. Typically, the rights and liberties discussed include the first amendment (freedom of speech, press and the religion clause) and the 14th amendment (equal protection of the laws — including race, gender, age and privacy).

*Prerequisite:* POLS 101.

### **POLS 344 Jurisprudence (3)**

The purpose of this course is to study the historical and theoretical development of the concept of law. It will examine problems in the field ranging from general principles on which legal rules are based to analysis of fundamental legal concepts and normative theories.

### **POLS 345 Ethics and Politics (3)**

Ethics and Politics examines the relationship between ethics and politics. This course explores a variety of moral issues that arise in political life including corruption, the problem of dirty hands, lies and deception, and whistle-blowing. The political, philosophical and psychological dimensions of these choices are assessed.

### **POLS 347 American Political Thought (3)**

American Political Thought analyzes the political ideas and beliefs that condition and influence the political system. Topics include a history of American political thought, the development of civic culture and the ideology of the common man.

### **POLS 350 Contemporary Liberalism (3)**

This course focuses on the work of John Rawls and his critics in order to analyze the key principles of liberalism and the arguments, internal and external to liberalism itself, concerning those principles. The course emphasizes philosophical arguments and the political applications of such arguments with a sustained analysis of particular issues (such as abortion, euthanasia, welfare and education).

### **POLS 351 Utopia/Dystopia (3)**

The study of utopia, or the ideal, yet non-existent, place is a staple of Western political thought. Utopias criticize one's own world while simultaneously setting out a framework for a better future. Dystopias sharpen this criticism by presenting a vision of the worst place. This class analyzes these criticisms and evaluates proposals about, among other things, ideal government, family life and education.

### **POLS 352 Gender, Theory and Law: Sexual Harassment (3)**

Sexual harassment is a lens through which we can view the status of women in the workplace, the nature of anti-discrimination law and the differing theories used to explain and analyze gender norms.

### **POLS 353 Beginning Mock Trial (3)**

This experiential course offers students an opportunity to learn firsthand about the work of trial attorneys, understand the judicial system, develop critical thinking skills and enhance communication skills. This will occur in conjunction with the annual American Mock Trial Association's case and associated intrasquad and local competitions. This course is intended for students with no previous mock trial experience and there is no travel involved. Enrollment is limited and by permission of the department chair.

### **POLS 354 Advanced Mock Trial (3)**

This advanced course offers students with previous mock trial experience an opportunity to further enhance their skills in a competitive environment in conjunction with the annual American Mock Trial Association's case analysis and spring-semester tournament activities. Travel is involved in the fall

and spring semesters. A minimum GPA of 2.5 is required for participation. Enrollment is limited and by permission of the department chair.

**POLS 355 Global Political Theory (3)**

This course explores the multiple perspectives of political thought outside of the Western Canon. We will explore perspectives from around the globe, including African and Buddhist political philosophy to post-colonial feminisms, to consider political theorizations of freedom, equality, justice, security and political organization.

**POLS 359 Special Topics in Political Thought and Public Law (3)**

These courses examine selected topics in political thought or public law not covered in other courses.

*NOTE: Special topics courses may be repeated if the subject matter changes.*

**POLS 360 International Relations Theory (3)**

This course is designed to familiarize students with the theoretical and analytical tools needed to explore the perennial and pressing questions of international relations. The class includes analysis of key international relations issues from a variety of theoretical perspectives.

**POLS 361 The United States in World Affairs (3)**

The United States in World Affairs provides an overview and political analysis of America's continual search for its appropriate roles in the world. This course includes examinations of the assumptions, theories and concepts that shape American policies overseas.

**POLS 362 Case Studies in Foreign Policy (3)**

Case Studies in Foreign Policy surveys and evaluates a variety of theoretical approaches to the study of foreign policy and practice and applies these approaches to various countries and different foreign policy issue areas. The emphasis in this course is conceptual, with a focus on theories of human behavior and the contributions these theories make to the comparative study of foreign policy.

**POLS 363 International Law and Organization (3)**

This course will examine basic concepts and principles of international law and analyze the nature, political processes, and impact of international organization

in world politics. It will explore different approaches to the study of international organization and evaluate the performance of international organizations in carrying out tasks and attaining goals.

**POLS 364 International Environmental Politics (3)**

International Environmental Politics examines the transnational nature of environmental issues and the responses to them in light of the political, economic and social priorities of states and other actors in the global arena. The course includes substantive discussion of key environmental concerns and specific analysis of how international institutions and selected communities throughout the world have grappled with the politics of environmental stress and degradation.

**POLS 365 International Political Economy (3)**

This course seeks to understand the interactions of politics and economics and to link theoretical questions to an examination of the vast changes that have occurred in the world. It analyzes the political and economic causes and implications of international economic relations across numerous dimensions of economic exchange trade, direct investment, aid, monetary relations and technology transfers from various perspectives.

**POLS 366 International Diplomacy Studies (3)**

This course investigates the structure, operation, and prospects of international and/or regional organizations such as the United Nations, Organization of African Unity, Organization of American States, Arab League, etc. The class includes participation in international or regional organization models. A minimum GPA of 2.5 is required for participation.

*Prerequisite:* Permission of the instructor.

**POLS 367 The Geography of International Conflict (3)**

The Geography of International Conflict analyzes contemporary international conflicts within the context of theories and concepts in political geography. Conflicts explored in this course include those in the former Yugoslavia, Northern Ireland, and South Africa. Furthermore, the U.S. role as potential peacemaker in these regions is investigated.

**POLS 368 Political Geography (3)**

Political geography is about control over space. The key vehicle for controlling space over recent centuries has been the state. This course focuses on the modern state. It focuses on state strategies to control space as varied as defining borders, putting railroads in place, and, particularly, creating national identities.

**POLS 369 Politics of Globalization (3)**

This course examines the complex and multifaceted political, economic, and cultural interactions among state and non-state actors. The class will focus on market liberalization, the power of the nation-state, the international division of labor, feminization of the global production workforce, anti-systematic protest movements, and production and consumption practices.

**POLS 379 Special Topics in International Relations (3)**

These courses examine selected topics in international politics not covered in other courses.

**POLS 380 State Politics (3)**

State Politics examines the political institutions and processes of state and local government within the American federal system. The course includes an analysis of the government and politics of South Carolina in a comparative perspective.

*Prerequisite:* POLS 101.

**POLS 381 Urban Government and Politics (3)**

Urban Government and Politics focuses on the impact of an urban society upon the forms, structure, and functions of county and municipal governments, the political problems generated by metropolitan growth, the various approaches to the governing of the metropolis, the political process in urban communities, and community power structure and decision making.

*Prerequisite:* POLS 101.

**POLS 382 The Congress (3)**

This course analyzes the organization, procedures and behaviors of legislative bodies in America, with emphasis on the United States Congress.

*Prerequisite:* POLS 101.

**POLS 383 The Judiciary (3)**

This course analyzes the major legal concepts and operations of the American judicial system with an emphasis on the political as well as legal factors involved in judicial decision making.

*Prerequisite:* POLS 101.

**POLS 384 The Presidency (3)**

This course analyzes the structure, behavior, history and roles of executive institutions in the American political system.

*Prerequisite:* POLS 101.

**POLS 386 American Politics and the Mass Media (3)**

American Politics and the Mass Media explores how political discourse and institutions are changing with current mass communication technology and practices. This course provides a basic introduction to media law, economics and regulation and pays special attention to the intersection of the media practices and campaigns, the presidency, public opinion, policy making and war. Cross-listed with COMM 395. Students may not earn credit for both courses.

*Prerequisite:* POLS 101.

**POLS 387 Political Parties and Interest Groups (3)**

This course examines the nature, functions, organization and activities of political parties and interest groups. This course explores topics such as the processes of nomination, campaigns and elections in the American political system as well as comparative analysis of parties and interest groups in other systems.

**POLS 388 Elections, Participation, and Voting Behavior (3)**

This course analyzes American elections, voting, and alternative conventional and unconventional forms of participation citizens might undertake in an effort to influence politics. Students will be introduced to the principal theories and methods of the voting behavior literature and have the opportunity to test those theories using recent national election data.

**POLS 389 Public Opinion in American Politics (3)**

This course covers the formation, expression, and measurement of American public opinion in order to

better understand how citizens think about and react to the political world. Crosslisted with COMM 389. A student may not earn credit for both courses.

*Prerequisite:* POLS 101.

**POLS 390 Southern Politics (3)**

Southern Politics is a comparative study of selected political patterns and trends in the southern states since World War II.

*Prerequisite:* POLS 101.

**POLS 391 Extremist Politics (3)**

This course analyzes the organization, philosophy, and activities of American extremist movements.

**POLS 392 Women and Politics (3)**

Women and Politics examines the role of the women's movement and feminism, and political participation by women, primarily within the American political system. The course focuses attention on women as citizens within a particular culture as political candidates and policymakers.

**POLS 394 Political Campaign Communication (3)**

This course examines the communication strategies employed in local, state, and national political campaigns. Topics include message design, political speeches, political advertising and media relations. Crosslisted with COMM 394. A student may not earn credit for both courses.

*Prerequisite:* POLS 101 or COMM 210 or permission of the instructor.

**POLS 395 American Federalism (3)**

This course examines the history of federalism in the U.S. through an examination of the political, economic and social forces that have changed the relationships between the national, state and local governments. Several models of federalism will be applied to the practice of intergovernmental relations in order to gain a sophisticated understanding of federalism in theory and practice.

*Prerequisite:* POLS 101.

**POLS 396 Race, Ethnicity, and the City (3)**

This course focuses on the ways in which racial and ethnic meanings and hierarchies are produced in and through urban space. We will examine the production of specific urban spaces such

as the ghetto, the enclave, the suburb and the citadel. In addition to looking at each racialized space independently, we will also investigate the linkages among them.

**POLS 397 LGBT Politics**

An examination of the movement for gay, lesbian and bisexual rights in the United States. Course material will include the emergence and evolution of gay and lesbian rights over the past half century, their roles as interest groups and an analysis of their impact on and place in American politics. The course will also include a discussion of the emerging and related struggle for transgender rights.

**POLS 399 Special Topics in American Politics (3)**

These courses examine selected topics in American politics not covered in other courses.

**POLS 400 Tutorial (3)**

Tutorials offer individual faculty instruction in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing plus permission of the tutor and the department chair.

**POLS 401 Reading and Independent Study in Political Science (1-3)**

This is a course designed primarily for the student interested in a particular topic. The amount of reading and/or the nature of the project will determine the credit to be assigned.

*Prerequisite:* Permission of the instructor. May be repeated. No more than six hours may be applied to the major.

**POLS 402 Field Internship (3)**

Field internships are designed to provide the advanced student with the opportunity to pursue a research topic in the context of an experiential learning situation. Open to juniors and seniors only.

*Prerequisites:* Permission of the department; junior or senior standing; completion of 18 semester hours in POLS (including POLS 251 with a passing grade); and normally a minimum 2.8 GPA in POLS and a 2.5 GPA overall.

**POLS 405 Capstone Seminar (3)**

The Capstone Seminar provides political science majors with a culminating and

integrative experience at the end of the major coursework. The seminar, required of all majors, provides students with the opportunity to do research and develop a critical analysis utilizing the key concepts and methodologies across the subfields of the discipline. A variety of topics will be offered each year.

*Prerequisite:* Permission of the chairperson required for enrollment. Students will normally have completed at least 27 semester hours of work in political science at the time of enrollment.

#### **POLS 499 Bachelor's Essay (3)**

The Bachelor's Essay is a year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## Portuguese Courses

#### **Portuguese Courses (Note)**

See *Hispanic Studies* on page 195 for the list of Portuguese courses.

## Psychology Courses

#### **PSYC 103 Introduction to Psychological Science (3)**

An introduction to the scientific study of behavior. Topics include research methods and statistics in psychology, nervous system and the brain, sensation and perception, learning, memory, social psychology and behavior disorders.

*Note: One requirement of this course is that students participate in research conducted in the psychology department to obtain experience in psychological research methods. Students who do not wish to participate in research will be offered an equitable alternative activity.*

#### **PSYC 211 Psychological Statistics (3)**

Elementary statistical techniques and their application to the analysis and interpretation of psychological data.

*Prerequisite:* PSYC 103.

*Note: Students who have completed PSYC 250 may not receive credit for PSYC 211.*

#### **PSYC 213 Conditioning and Learning (3)**

A survey of the experimental study of human and animal learning with an introductory consideration of modern learning theory.

*Prerequisite:* PSYC 103.

#### **PSYC 214 Behavioral Neuroscience (3)**

A consideration of anatomical and physiological correlates of behavior.

*Prerequisite:* PSYC 103.

#### **PSYC 215 Cognitive Psychology (3)**

Empirical findings and theoretical models in human information processing and performance are examined. Examples of topics include attention and pattern recognition, memory and imaginal representation, problem solving, reasoning, creativity and sensorymotor skills.

*Prerequisite:* PSYC 103.

#### **PSYC 220 Research Methods (3)**

A survey of standard research methods used by psychologists. Topics include the scientific method, measurement issues, observational techniques, sampling, experimental designs and data analysis.

*Prerequisites:* PSYC 103 and 211.

*Note: Students who have completed PSYC 250 may not receive credit for PSYC 220.*

#### **PSYC 250 Psychological Statistics and Research Methods (6)**

Equivalent to PSYC 211 and 220. A survey of elementary statistical techniques and standard research methods used by psychologists. This course integrates the content of PSYC 211 and 220 while providing an introduction to the analysis of research data with statistical software.

*Prerequisite:* PSYC 103.

*Note: PSYC 250 covers the materials of PSYC 211 and 220 in one semester. Classes meet five days a week for a total of six hours of instruction. It is designed for students who seek to accelerate their study of psychology. It is strongly recommended that students complete a statistics course in the Mathematics Department and discuss*

*enrollment with their psychology advisor before taking this class. Students who have completed PSYC 211 or 220 may not receive credit for PSYC 250.*

#### **PSYC 307 Abnormal Psychology (3)**

An overview of psychopathology, including the empirical and theoretical bases of epidemiology, etiology and treatment. Mental disorders are examined from psychological (e.g., learning theory) and biological (e.g., neurobiological) perspectives and research and treatment methods associated with these paradigms are introduced.

*Prerequisite:* PSYC 103.

#### **PSYC 308 Psychology of Personality (3)**

The normal personality from the point of view of contemporary psychology. A consideration of structure, dynamics, individual differences and methods of assessment will be given.

*Prerequisite:* PSYC 103.

#### **PSYC 310 Social Psychology (3)**

A study of the principles of human interaction, including a consideration of such topics as social learning, person perception, attitudes, prejudice and analysis of small group behavior.

*Prerequisite:* PSYC 103.

#### **PSYC 311 Developmental Psychology (3)**

An introduction to the understanding of change and continuity from conception to death. Special attention will be given to core theoretical explanations and empirical findings regarding physical, cognitive, emotional and social development early in the life-span.

*Prerequisite:* PSYC 103.

#### **PSYC 313 Sensation and Perception (3)**

An examination of the physiological and psychological processes involved in sensing and perceiving stimuli. Historical and contemporary research and theory in sensation and perception will be considered.

*Prerequisite:* PSYC 103.

#### **PSYC 317 Motivation (3)**

A critical analysis of the concept of motivation in historical perspective with an emphasis on contemporary research and theories.

*Prerequisite:* PSYC 103.

**PSYC 318 Comparative Psychology (3)**

A comparison and explanation of the similarities and differences in the behavior of different species of animals.

*Prerequisite:* PSYC 103.

**PSYC 321 Industrial Psychology (3)**

A study of the application of psychological principles to industrial organizations. Topics covered include individual differences, job satisfaction, supervision, personnel selection, training and placement.

*Prerequisite:* PSYC 103.

**PSYC 329 Environmental Psychology (3)**

A study of the relationships between human behavior and the physical environment, including a consideration of such topics as the effects of the arrangement of interior spaces, structures of communities, crowding in urban environments, climate and natural disasters. Opportunity will be provided for student participation in research projects.

*Prerequisite:* PSYC 103.

**PSYC 333 Health Psychology (3)**

An examination of psychological variables contributing to disease and the effects of illness and injury on behavior. Examples of topics treated include psycho-physiological disorders, impact of stress, pain mechanisms, medical settings and patient behavior, psychological approaches to prevention and management, and compliance.

*Prerequisite:* PSYC 103.

**PSYC 334 Psychology of Stress (3)**

An examination of stress from physiological and psychological perspectives. Presentation of empirical research and theoretical models. Examples of topics include occupational and performance stress, stress in animals, stressful life events, post-traumatic stress, sociocultural and familial stress and coping mechanisms.

*Prerequisite:* PSYC 103.

**PSYC 336 States of Consciousness (3)**

Psychological theory and empirical research concerning the continuum of awareness states. Topics treated include sleep and dreams, hypnosis and self-regulated consciousness, Eastern

psychological approaches, drug effects and hallucinatory states.

*Prerequisite:* PSYC 103.

**PSYC 340 Nonverbal Communication (3)**

This course is a survey of research on how the body and voice are used in the communication of emotion, attitudes, status, and other messages. The roles of gestures, movement, facial expressions, gaze, interpersonal distancing, touch, taste, smell, physical appearance and paralanguage are considered.

*Prerequisite:* PSYC 103

**PSYC 349 Psychology of Entrepreneurship (3)**

Entrepreneurial ventures begin when people recognize and act upon market opportunities. From an initial business idea to the time that a firm is organized, most of the critical processes involve the psychological characteristics and actions of individuals. This course examines those psychological processes in detail through lectures, discussion and case studies.

*Prerequisites:* MATH 104, or PSYC 211 or DSCI 232 and junior standing or permission of the instructor.

**PSYC 350 Psychology of Gender (3)**

This course presents social, cognitive, biological, evolutionary and cross-cultural perspectives on gender, including gender development and roles. Major themes include nature and nurture contributions to gender, gender differences versus similarities, gender versus sex, the influence of gender assumptions, biases and roles, and challenging prejudice to improve gender relations.

*Prerequisite:* PSYC 103.

**PSYC 351 Principles of Neurobiology (3)**

The first course of a two-semester series that serves as a rigorous introduction to the field of neuroscience. The first semester focuses on brain anatomy, cellular and molecular function of neurons and development of nervous systems. The course is team-taught by faculty from the Departments of Biology and Psychology.

*Prerequisites:* PSYC 103, BIOL 111, 112, and BIOL 211 or PSYC 214.

**PSYC 352 Neurobiology and Behavior (3)**

The second course of a two-semester series that serves as a rigorous introduction to the field of neuroscience. This course focuses on sensory and motor systems, neural regulatory systems, functional neuroanatomy and behavioral/cognitive neuroscience.

*Prerequisite:* BIOL/PSYC 351 or PSYC 214.

**PSYC 353 Hormones and Behavior (3)**

Hormones modulate most social behaviors (reproductive, parental, aggressive) expressed by animals. This course examines how hormones interact with the nervous system to produce these complex behaviors. Taking a comparative approach, the course draws examples of neuroendocrine function from throughout the animal kingdom including fish, birds, reptiles, amphibians and mammals. Cross-listed with BIOL 353.

*Prerequisites:* PSYC 103 and PSYC 214 or PSYC 313.

**PSYC 355 Sport Psychology (3)**

The scientific study of human behavior in the context of participating in sport and how sport performance is affected by the athlete, the team and its leadership as well as by the physical and interpersonal environment in which these individuals interact.

*Prerequisite:* PSYC 103 or permission of the instructor. This course is cross-listed with PEHD 355. If a student has received credit for PEHD 355, the student may not receive credit for PSYC 355.

**PSYC 356 Introduction to Behavioral Genetics (3)**

This course explores the relationship between genetics and behavior. The course will focus on the ROLE of genetic and environmental factors that contribute to both animal and human behavior.

*Prerequisites:* PSYC 103 and BIOL 111 or permission of instructor.

**PSYC 360 Laboratory in Conditioning and Learning (1)**

Selected research in animal learning applying methods typical in the field.

*Prerequisites:* PSYC 103, 211 and 220. Students may take PSYC 250 in lieu of PSYC 211 and 220.

*Co-requisite or prerequisite:* PSYC 213.

**PSYC 362 Laboratory in Social Psychology (1)**

Selected research in social psychology applying methods typical in the field.

*Prerequisites:* PSYC 103, 211 and 220. Students may take PSYC 250 in lieu of PSYC 211 and 220.

*Co-requisite or prerequisite:* PSYC 223.

**PSYC 364 Laboratory in Physiological Psych (1)**

Selected research in physiological psychology applying methods typical of the field.

*Prerequisites:* PSYC 103, 211 and 220. Students may take PSYC 250 in lieu of PSYC 211 and 220.

*Co-requisite or prerequisite:* PSYC 214.

**PSYC 366 Laboratory in Sensation & Perception (1)**

Selected research in sensation and perception applying methods typical of the field.

*Prerequisites:* PSYC 103, 211 and 220. Students may take PSYC 250 in lieu of PSYC 211 and 220.

*Co-requisite or prerequisite:* PSYC 216.

**PSYC 368 Laboratory in Cognitive Psych (1)**

Selected research in cognitive psychology applying methods typical of the field.

*Prerequisites:* PSYC 103, 211 and 220. Students may take PSYC 250 in lieu of PSYC 211 and 220.

*Co-requisite or prerequisite:* PSYC 215.

**PSYC 370 Tests and Measurements (3)**

A consideration of the history, theory and techniques of psychological measurement. Attention is given to the measurement of intelligence, personality, interests, attitudes and aptitudes. Limited experience in test administration and interpretation is provided.

*Prerequisites:* PSYC 103 and 211 (or 250).

**PSYC 372 Applied Behavior Analysis (3)**

A study of the application of the principles of operant and respondent conditioning to the control of human behavior, both normal and disordered, including a consideration of the moral and social implications of the behavior control technologies.

*Prerequisites:* PSYC 103 and 213.

**PSYC 375 Topics in Child and Adolescent Development (3)**

This course will give students a more advanced exposure to topics in child and/or adolescent development-e.g., socio-emotional/moral development; the role of parenting in child development; early developmental neuroscience; optimal development, etc. Students will gain a more comprehensive understanding of both the major developmental theories and the developmental research methodologies.

**PSYC 376 Mass Media and Human Development (3)**

An examination of the psychological literature on the role media play in the growth and development of human beings across the life span. Attention is given to theoretical formulations, research methods and to the social milieu that helps to form the media.

*Prerequisites:* PSYC 103 and 311.

**PSYC 378 Psychology of Language (3)**

The reception, comprehension, and expression of language will be considered from psychological perspectives. Examples of topics include the biological basis of language, the social uses of language, speech perception and production, psycholinguistics and language development.

*Prerequisites:* PSYC 103 and 215.

**PSYC 386 Behavioral Pharmacology (3)**

This course is a survey of behaviorally active drugs with emphases on neurochemical and behavioral mechanisms of action.

*Prerequisites:* PSYC 103 and either PSYC 214 or BIOL/ PSYC 351.

**PSYC 387 Neuropsychology (3)**

This course is an in-depth focus on brain-behavior relationships in humans. Topics include neuroanatomy, neurophysiology, cognitive theory and research methods. Theories of brain function are examined along with the clinical procedures for measuring brain integrity. Additionally, neurological disorders (e.g., stroke, brain injury) and methods of neurorehabilitation are explored.

*Prerequisites:* PSYC 103 and either PSYC 214 or BIOL/PSYC 351.

**PSYC 388 Psychology of Substance Abuse (3)**

This course presents an overview of psychologically based models for understanding why individuals engage in substance abuse. Emphasis is on cognitive, emotional and behavioral factors that explain why some individuals transition from casual use to substance abuse. Approaches to prevention, treatment and contemporary drug policy issues will be considered.

*Prerequisites:* PSYC 103 and at least 12 additional hours in psychology.

**PSYC 389 Child Psychopathology (3)**

A comprehensive overview of the field of abnormal child psychology. Coverage will emphasize the multidimensional, reciprocal nature of child behavior problems within a developmental, clinical/diagnostic and experimental framework. Topical coverage will include definitions, theories, clinical presentation, research, assessment and treatment issues related to various externalizing and internalizing symptomatology.

*Prerequisites:* PSYC 103 and 307.

**PSYC 390 Research Design and Interpretation (3)**

The principles of experimental and non-experimental research designs and the interpretation of data. The designs will be selected from simple randomized designs, factorial designs, within-subject designs, mixed designs, single subject designs and correlation designs, each analyzed by the appropriate statistical tests.

*Prerequisites:* PSYC 103, 211 and 220. Students may take PSYC 250 in lieu of PSYC 211 and 220.

**PSYC 392 Scientific Foundations of Clinical Psychology (3)**

A study of scientific methods of research and practice in clinical psychology. Examples of topics include the scientist-practitioner model of clinical training, development and evaluation of psychometric tools, clinical research methods and statistical techniques, evaluation of psychotherapy outcomes, and other issues related to psychological interventions.

*Prerequisites:* PSYC 103, 307, and at least 12 additional hours in psychology.

**PSYC 394 History and Systems of Psychology (3)**

A study of psychological theory in historical context. Topics will include functionalism, behaviorism, Gestalt psychology and psychoanalysis.

*Prerequisites:* PSYC 103 and at least 12 additional hours in psychology.

**PSYC 396 Advanced General Psychology (3)**

A consideration of selected topics from various fields of psychology. Designed to be taken in the senior year.

*Prerequisites:* PSYC 103 and at least 15 additional hours in psychology.

**PSYC 397 Internship Experience (3)**

This course provides the student interested in the application of psychological theories and principles an opportunity to have an applied learning experience in a pre-approved agency or organization. The learning experience will be guided by an individualized learning contract that will specify the academic and work components of the experience.

*Prerequisites:* This class is open to junior or senior psychology majors with an overall and major GPA of 3.0. Students must have successfully completed the following courses before they are eligible to apply: PSYC 211, 213, 214, 215 and 220.

**PSYC 399 Tutorial (3)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week). Open only to psychology majors enrolled in the Honors College and having a psychology GPA of at least 3.0.

*Prerequisites:* Junior or senior standing, plus permission of the tutor and the department chair.

**PSYC 400 Independent Study (1-3)**

Individually supervised reading and/or research on a topic or project agreed upon by student and supervisor.

*Prerequisites:* Open to junior and senior psychology majors with the permission of a faculty member as supervisor and of the department chair. Formal written application stating the nature of the project and presenting evidence of sufficient background knowledge for the enterprise must be submitted prior to registration. Open only to students having

a GPA of at least 3.0 in psychology courses. (No more than six semester hours in independent study may be applied toward the major.)

**PSYC 410 Special Topics in Psychology (1-4)**

An examination in depth of an area of current theoretical or research interest. Choice of topic will depend upon the interests of students and instructor.

*Prerequisite:* Open to juniors and seniors with the permission of the instructor. (No more than six hours in special topics may be applied to meet the requirements for the major.)

**PSYC 446 Special Topics in Neuroscience (3)**

A special topics course designed to supplement course offerings in neuroscience.

*Prerequisites:* Junior or senior standing and permission of the instructor.

**PSYC 447 Seminar in Neuroscience (3)**

A seminar course exposing students to cutting-edge neuroscience research. Research seminars by neuroscientists will be combined with the reading and discussion of primary literature. Students will learn to effectively write about and present their own ongoing research projects. This course serves as a capstone experience for students pursuing a minor in neuroscience.

*Prerequisites:* BIOL/PSYC 351/352

*Co-requisite:* BIOL/PSYC 448 or permission of the instructor. Students engaged in independent research or a bachelor's essay will be given priority for enrollment.

**PSYC 448 Bachelor's Essay in Neuroscience (6)**

A year-long senior research project conducted under the supervision of a faculty member in the neuroscience program at CofC or MUSC. Along with the faculty mentor, the student must submit a written project proposal for approval prior to course registration. This course is designed for students who are working towards a neuroscience minor.

*Prerequisites:* BIOL/PSYC 351 and 352 and permission of both the student's major department and the neuroscience program director.

**PSYC 460 Advanced Conditioning and Learning with Lab (3)**

This capstone course provides an in-depth examination of various theories and practices in the area of conditioning and learning. Additionally, students will conduct research using methods common in the field. Examples of topics covered in this course include: response acquisition, schedules of reinforcement, extinction, and response reinstatement.

*Prerequisites:* PSYC 103, PSYC 211, PSYC 220, PSYC 213, and junior or senior status. Students may take PSYC 250 in lieu of PSYC 211 and 220.

**PSYC 462 Advanced Social Psychology with Lab (3)**

This capstone course provides an in-depth examination of various theories and practices in the area of social psychology. Additionally, students will conduct research using methods common in the field. Examples of topics covered in this course include: social cognition, conformity, group processes, and prejudice.

*Prerequisites:* PSYC 103, PSYC 211, PSYC 220, PSYC 310, and junior or senior status. Students may take PSYC 250 in lieu of PSYC 211 and 220.

**PSYC 464 Advanced Behavioral Neuroscience with Lab (3)**

This capstone course provides an in-depth examination of various theories and practices in physiological psychology. Additionally, students will conduct research using methods common in the field. Examples of topics covered in this course include: psychopharmacology, neuroendocrinology, neuroanatomy, and animal behavior.

*Prerequisites:* PSYC 103, PSYC 211, PSYC 220, PSYC 214, and junior or senior status. Students may take PSYC 250 in lieu of PSYC 211 and 220.

**PSYC 466 Advanced Sensation and Perception with Lab (3)**

This capstone course provides an in-depth examination of various theories and practices in the area of sensation and perception. Additionally, students will conduct research using methods common in the field. Examples of topics covered in this course include psychophysics and

its application to the assessment of visual and tactile modalities.

*Prerequisites:* PSYC 103, PSYC 211, PSYC 220, PSYC 366, and junior or senior status. Students may take PSYC 250 in lieu of PSYC 211 and 220.

### **PSYC 468 Advanced Cognitive Psychology with Lab (3)**

This capstone course provides an in-depth examination of various theories and practices in the area of cognitive psychology. Additionally, students will conduct research using methods common in the field. Examples of topics covered in this course include: attention, pattern recognition, memory processes, and language comprehension.

*Prerequisites:* PSYC 103, PSYC 211, PSYC 220, PSYC 215, and junior or senior status. Students may take PSYC 250 in lieu of PSYC 211 and 220.

### **PSYC 499 Bachelor's Essay (6)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department chair prior to registration for the course. Open to psychology majors with an overall GPA of at least 3.4.

## **Real Estate Courses**

### **REAL 310 Principles of Real Estate (3)**

A basic course designed to cover the legal, financial, economic and marketing concepts related to real estate. Topics include property rights (contracts, deeds, mortgages, leases, liens); property ownership (titles, closing of settlement, insurance, taxes); financing (interest rates and mortgage types); brokerage; and property evaluation.

*Prerequisite:* Junior standing.

### **REAL 360 Special Topics in Real Estate (1-3)**

An in-depth treatment of a current area of special concern or interest within the field of real estate.

*Prerequisites:* Junior standing; FINC 303.

### **REAL 376 Real Estate Market Analysis (3)**

A study of real estate markets introducing a comprehensive approach to market analysis for commercial and residential projects. At the micro-level, this approach accommodates feasibility studies, site selection proposals, as well as highest and best use analysis. At the macro-level, skills are introduced to forecast market direction in real estate.

*Co-requisites or prerequisites:* FINC 303 and junior standing.

### **REAL 380 Real Estate Investment Analysis (3)**

This course presents the fundamental concepts of real estate investment analysis. This course will provide a framework for making real estate investment decisions. Background topics include the legal foundation for real estate ownership, lease agreements and alternative ownership structures. The course will focus on the development of a financial decision-making model that will incorporate cash flow forecasting and risk analysis.

*Prerequisites:* Junior standing; ACCT 203, 204, FINC 303, ECON 200, 201, MATH 104 or 250, and REAL 310; or permission of the instructor.

### **REAL 410 Real Estate Finance (3)**

This course presents the fundamental concepts of real estate finance. The course provides a framework for understanding the flow of funds into the various real estate markets and how lenders assess risks and price their loans. The course will provide students with practical knowledge to make more informed career choices and an understanding of the institutions and instruments used to finance residential and commercial real estate.

*Prerequisites:* Junior standing; ACCT 203, 204, FINC 303, REAL 310, ECON 200, 201, and MATH 104 or 250; or permission of the instructor.

### **REAL 420 Real Estate Independent Study (1-3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed

*Prerequisites:* Junior standing; permission of instructor and chair.

### **REAL 444 Real Estate Internship (3)**

A supplemental source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved agency and the school. The learning experience will be guided by a learning contract outlining specific work and academic components.

*Prerequisites:* Senior standing; major or minor in SOBE. See departmental internship coordinator for more details.

### **REAL 499 Bachelor's Essay (6)**

A year-long research and writing project completed under close supervision of a real estate faculty member. Faculty tutor will help in both the design and supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

*Prerequisites:* Senior standing and department approval.

## **Religious Studies Courses**

### **RELS 101 Approaches to Religion (3)**

This course will introduce religious studies through a particular theme, such as holy people, the body, or death and the afterlife. Both religious phenomena and theories of interpretation will be covered.

### **RELS 105 Introduction to World Religions (3)**

An introductory survey of the major religions of mankind, beginning with a treatment of tribal religions and including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam.

### **RELS 115 Religion and Society (3)**

A study of the social and political dimensions of religion, including the role of religion in the framework of culture and history.

### **RELS 120 Religion, Art, and Culture (3)**

This course will introduce students to the aesthetic, cultural, and symbolic aspects of religion. In the context of comparative religious studies, topics may include the following: the visual arts, music, architecture, ritual performance, oral

traditions, theatre, dance, literature, film, popular iconography or mass media.

### **RELS 185 Women and Religion (3)**

An examination of the images and roles of women within various religious traditions, along with a consideration of their impact on social attitudes and structures. The course will include such topics as the nature of the goddess, priestess, saint, witch, holy virgin and martyr.

### **RELS 201 The Hebrew Bible: History and Interpretation (3)**

An introductory study of the Hebrew Bible, or Old Testament, which considers the development of biblical literature in the context of ancient Near Eastern culture and history. Topics covered may include the telling of creation, the roots of monotheism, the interpretation of misfortune, prophecy and prophets, kingship and exile, the formation of the Hebrew canon and critical methods of scriptural study.

### **RELS 202 The New Testament: History and Interpretation (3)**

An introductory study of the New Testament. Readings from primary and secondary sources will concern the historical, social, religious and literary backgrounds of gospels, letters and the Apocalypse. Other topics covered may include the earliest Christian communities, the career of Paul, religious influences and the Greco-Roman world, women in the early churches, the formation of the Christian canon and critical methods of scriptural study.

### **RELS 205 Sacred Texts of the East (3)**

An introductory study of sacred texts in one or more Eastern religions (Hinduism, Buddhism, Taoism, Confucianism, Sikhism, Jainism, Shinto).

### **RELS 210 Theories in the Study of Religions (3)**

As a theoretical introduction to the academic study of religion, this course surveys a number of important debates in the history of religious studies, such as the insider/outsider problem, definitions of religion, theories on the origins of religion, the comparison of religions, and religion's psychological, sociological and political functions.

### **RELS 220 Comparative Religious Ethics (3)**

An examination of the nature of ethical doctrines within different religions, including the manner in which a particular religious ethics is grounded in text, culture and tradition.

### **RELS 225 The Jewish Tradition (3)**

A multidisciplinary introduction to the history, beliefs, practices, and institutions of the Jewish tradition, from its biblical foundations to the modern state of Israel.

*Note: This course may not be taken for credit if credit has been received for JWST 200.*

### **RELS 230 The Christian Tradition (3)**

An examination of the Christian religious tradition from the perspective of history and practice. Attention will be given to the development of some of its religious ideas.

### **RELS 235 The Islamic Tradition (3)**

An examination of Islamic beliefs and practices, covering Muhammad's life, Islamic social and religious institutions, and the Sunni, Shi'ite, and Sufi traditions.

### **RELS 240 The Buddhist Tradition (3)**

An examination of the early beliefs, practices, and doctrines of Buddhism, the formation of monastic communities, and the historical development of both Theravada and Mahayana Buddhism. Exemplary texts from the Buddhist tradition, religious symbolism and art, soteriological theory and social context will also be discussed.

### **RELS 245 The Hindu Tradition (3)**

An examination of Hindu religious beliefs and practices in their Indian context, with emphasis on primary texts, doctrines, rituals and the arts. Attention will be given to the change and development of Hindu religious ideas. The influences of Islam, Jainism and Buddhism will also be explored.

### **RELS 248 Religious Traditions of China and Japan (3)**

An examination of the religious traditions of China and Japan with special emphasis on the classical periods. Topics will include folk religion, ritual and festival, arts and sacred architecture. The primary focus will be on Confucianism, Taoism,

Chinese Buddhism, Shinto and the various schools of Zen.

### **RELS 250 Religion in America (3)**

A survey of various issues of American religion, covering such topics as the role of religion in the African-American experience, denominational religious histories, religion in American reform movements and American theological traditions.

### **RELS 255 Philosophy of Religion (3)**

An examination of issues such as the nature of religious experience, arguments for the existence of God, the conflict between reason and faith, immortality, the nature of miracles, and the problem of evil. NOTE: This course may not be taken for credit if credit has been received for PHIL 255.

### **RELS 260 Native American Religions (3)**

An introduction to the indigenous religions of the Americas, including such topics as: cosmology, oral myth traditions, socio-religious organization, ceremonial cycles, worldview and religious experience.

### **RELS 270 African-American Religions (3)**

This course explores the diversity of African-American religions, from African roots to the Civil Rights Movement, from Rastafari to Buddhism, from major Christian denominations to Voodoo and Gullah folk magic. A key concern is the way in which religious beliefs, practices and institutions inform African-American life and culture.

### **RELS 275 Religious Tradition and Scientific Inquiry (3)**

This course introduces the study of the interaction between science and religion. It will examine how religion influenced the development of modern science; how modern science then impacted religious belief and practice; and how diverse such mutual influences have been, especially with regard to ecology, evolution, physics and psychology.

### **RELS 280 Religion and Film (3)**

This course will look at the religious themes in a variety of films (to be screened in class). Films may be analyzed from a variety of narrative, symbolic, theological or historical approaches. Students will become familiar with

various approaches to religious studies, and with the basic analysis of film vocabulary.

**RELS 285 Religion and Feminism (3)**

Students will be introduced to the feminist critique and patriarchal religion as it is applied to ritual practices, institutional organizations, ethics, and the interpretation of sacred texts and religious writings.

**RELS 298 Special Topics in Religious Studies (3)**

An examination of a special topic in religious studies. May be repeated for credit if the subject varies.

**RELS 301 Mysticism and Religious Experiences (3)**

An examination of the breadth and variety of mystical and religious experiences, with special consideration given to their symbols, dynamics and historical interpretations.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 305 Topics in Indigenous Religions (3)**

A comparative examination of topics and themes central to the study of indigenous religions. Topics covered may include the following: cosmology, shamanism, ritual, sacred art, oral traditions, myth, rites of passage and social and religious organization. May be repeated for credit if the subject varies.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 310 Sacred Texts (3)**

A critical analysis of selected major texts from the world's religious traditions. May be repeated for credit with the permission of the instructor if the texts vary.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 315 New Religious Movements (3)**

An interdisciplinary examination of the formation and development of New Religious Movements, using historical and contemporary case studies to test a variety of theoretical perspectives. Topics may be organized thematically and include popular perceptions of New

Religions ("cults"), issues of political contestation, the role of the media and the impact of globalization on these movements.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 335 Western Esotericism (3)**

This course will cover a range of topics in esoteric studies from classical Greco-Roman religions to contemporary Britain and America. Possible topics covered: magic, gnosticism, hermeticism, neoplatonism, alchemy, kabbalah, tarot, grail, knightly orders, rosicrucian and masonic groups, theosophy, secret societies, modern magical orders, occultism and eastern religious influences.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 340 Advanced Topics in Asian Religions (3)**

Advanced study in the practices, beliefs, institutions, and symbolic representations of Asian religious traditions, such as Buddhism, Hinduism, Taoism or Confucianism. A number of thematic topics that arise in the study of a religion within specific Asian cultural contexts will be explored, using a variety of interdisciplinary methods. May be repeated for credit if the subject varies.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 348 Asian Religions in America (3)**

This course traces the history of various Asian religions (including one or more of Buddhism, Hinduism, Sikhism, Taoism, Islam, and Christianity), as they become part of the American religious landscape. Modes of transmission to be examined include immigration, mission work, literature and mass media.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 350 Phenomenology of Religion (3)**

A critical exploration of themes in the phenomenology of religion. Topics will vary, and may include such themes as sacred time and space; and magic and divination. May be repeated for up to six

hours of credit if the subject matter varies.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 360 Myth, Ritual, and Symbol (3)**

This course examines the role of myth, ritual and symbol in the religious traditions of the world.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 375 Topics in the History of Religions (3)**

A critical exploration of selected topics, figures or issues in the history of religions. May be repeated for credit if the subject varies.

*Prerequisite:* Either three semester hours in religious studies or permission of the instructor.

**RELS 381 Religious Studies Internship (1-4)**

An opportunity for advanced students to gain practical experience through supervised field placement in areas related to the comparative study of religions. Students will be expected to produce specific assignments that reflect agreed-upon learning goals under the direction of a department faculty member.

*Prerequisites:* RELS 101 or 105, RELS 210, and six (6) additional credits of RELS 200- or 300-level coursework. The student must be a junior or senior in good academic standing, with a minimum 3.0 in the major and an overall GPA of 2.5, be a major or minor in religious studies, and have the permission of the instructor. Course prerequisites may vary depending on the nature of the placement. Students must sign up for the internship through an approval process initiated the semester preceding the actual internship.

**RELS 399 Tutorial (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week). The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

*Prerequisites:* Either three semester hours in religious studies or permission of the instructor. Junior standing plus permission of the tutor and the department chair.

### **RELS 405 Advanced Studies in Religion (3)**

An examination of a selected tradition, theme, or problem in the study of religion. May be repeated for up to six hours of credit, if the subject matter varies.

*Prerequisite:* Either nine semester hours in religious studies or permission of the instructor.

### **RELS 450 Senior Seminar in Religious Studies (3)**

An intensive examination of selected theoretical or methodological issues in religious studies. May be repeated for credit.

*Prerequisites:* RELS 210, junior or senior religious studies major with at least nine semester hours in religious studies, or permission of the instructor.

### **RELS 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and be approved by the department prior to registration for the course.

*Prerequisites:* Either nine semester hours in religious studies or permission of the instructor. RELS 210, which cannot be taken concurrently with RELS 499.

## **Russian Courses**

### **RUSS 101 Elementary Russian (3)**

Introduces the fundamental structures of Russian with emphasis on acquisition of the basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* Open only to beginning students of Russian.

### **RUSS 101C Elementary Russian Conversation Supplement (1)**

A one-hour weekly session for intensive listening/ speaking practice in Russian

utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Note: Conversation course credit may not be applied to fulfill the languages requirement nor may it count towards the Russian studies minor.*

### **RUSS 102 Elementary Russian (3)**

Introduces the fundamental structures of Russian with emphasis on acquisition of the basic language skills: reading and listening comprehension, oral and written expression.

*Prerequisite:* RUSS 101.

### **RUSS 102C Elementary Russian Conversation Supplement (1)**

A one-hour weekly session for intensive listening/ speaking practice in Russian utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Note: Conversation course credit may not be applied to fulfill the languages requirement nor may it count towards the Russian studies minor.*

### **LTRS 110 Russian Folktales in Translation (3)**

This course is an overview of the Russian folktale tradition. While pointing out the similarities between the Russian and other folktale traditions (from both Eastern and Western civilizations), the course will explore the uniqueness and charm of the Russian folktale and provide insight into Russian culture and traditions.

### **RUSS 201 Intermediate Russian (3)**

Development of proficiency in Russian and familiarity with Russian culture through practice in the use of the basic language skills (listening, speaking, reading and writing) and acquisition of vocabulary.

*Prerequisite:* RUSS 102 or placement.

### **RUSS 201C Intermediate Russian Conversation Supplement (1)**

A one-hour weekly session for intensive listening/ speaking practice in Russian utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Note: Conversation course credit may not be applied to fulfill the languages*

*requirement nor may it count towards the Russian studies minor.*

### **RUSS 202 Intermediate Russian (3)**

Development of proficiency in Russian and familiarity with Russian culture through practice in the use of the basic language skills (listening, speaking, reading and writing) and acquisition of vocabulary.

*Prerequisite:* RUSS 201 or placement.

### **RUSS 202C Intermediate Russian Conversation Supplement (1)**

A one-hour weekly session for intensive listening/ speaking practice in Russian utilizing vocabulary and grammatical structure presented in the corresponding basic course.

*Note: Conversation course credit may not be applied to fulfill the languages requirement nor may it count towards the Russian studies minor.*

### **RUSS 295 Russian for Mass Media (3)**

This course is aimed at all students of Russian who have an interest in Russian area studies or international affairs. This course will provide linguistic tools and socio-cultural topics in Russia related to foreign and domestic issues, economics and business.

*Prerequisite:* RUSS 202 or permission of the instructor.

### **RUSS 313 Russian Conversation and Composition (3)**

Intensive practice in the spoken and written language based on contemporary Russian materials and sources.

### **RUSS 313C Russian Conversation and Composition Conversation Supplement (1)**

A one-hour weekly session for intensive listening/ speaking practice in Russian utilizing vocabulary and grammatical structure presented in the corresponding course.

*Note: Conversation course credit may not be applied to fulfill the languages requirement nor may it count towards the Russian studies minor.*

### **RUSS 314 Russian Conversation and Composition (3)**

Intensive practice in the spoken and written language based on contemporary Russian material and sources.

*Prerequisites:* RUSS 202 or permission of the instructor.

**RUSS 314C Russian Conversation and Composition Conversation Supplement (1)**

A one-hour weekly session for intensive listening/ speaking practice in Russian utilizing vocabulary and grammatical structure presented in the corresponding course.

*Note: Conversation course credit may not be applied to fulfill the languages requirement nor may it count towards the Russian studies minor.*

**RUSS 330 Collateral Study (1-3)**

Individually supervised course of reading in Russian and in the subject area of a concurrent course offered by another department. The nature and extent of readings will be determined in consultation among student, instructor of the primary subject-matter course, and the language instructor, who will supervise and evaluate the student's linguistic performance. A collateral study course may be repeated up to a maximum of six credit hours in conjunction with other primary courses.

**RUSS 331 Business Russian (3)**

A course to develop the communicative skills for doing business in a Russian-speaking environment; it provides the linguistic tools for performing typical business functions in actual business contexts. Focus is on practical applications of Russian to business including individual and group projects on awareness of social, political, cultural issues, as they differ in Russia, enhanced by selected readings, written documents, simulated real-life situations. Readings and discussions are in Russian.

*Prerequisite:* RUSS 202 or permission of the instructor.

**RUSS 390 Special Topics (3)**

Intensive study of a particular subject or theme (specific topics will be listed in the schedule of courses when offered; e.g., Russian Women Poets).

*Prerequisite:* RUSS 313 or RUSS 314 or permission of the instructor.

**LTRS 150 Russian Literature in (English) Translation (3)**

Study of selected works from a number of literatures that offer different

perspectives on the world and humankind.

**LTRS 210 19th Century Russian Literature in (English) Translation (3)**

Russian civilization, history and customs will be studied and analyzed through literature. Consideration will be given to authors such as Pushkin, Gogol, Lermontov, Turgenev, Dostoevsky, Tolstoy and Chekhov.

**LTRS 220 20th Century Russian Literature in (English) Translation (3)**

This course is an overview of Russian Literature of the first half of the 20th century. Russian civilization, history and customs will be studied and analyzed through literature. Consideration will be given to authors such as A. Blok, B. Pasternak, A. Akhmatova, M. Bulgakov, E. Zamyatin, I. Babel and O. Mandelshtam.

**LTRS 250 Russian Literature in (English) Translation (3)**

Study of selected works, representing major literary periods and genres that illuminate another language and culture or era of a shared human condition.

**LTRS 270 Studies in Russian Film (3)**

An introductory course on Russian cinema with rotating topics such as "Russian Literature on the Screen," "Russian Cinema during the Period of the Thaw and Stagnation," and "Post-Soviet Cinema."

*Note: Taught in English. May be repeated under different topic.*

**LTRS 350 Russian Literature in (English) Translation (3)**

Study of selected works by a Russian author whose influence is felt in the world at large.

**LTRS 450 Russian Literature in (English) Translation (3)**

A study of selected works by major authors representing different cultures with emphasis on common themes as viewed from the perspectives of these writers.

## Sociology Courses

**SOCY 101 Introduction to Sociology (3)**

Have you ever wondered why people behave the way they do? In this class you will gain a scientific understanding of the social world by observing human behavior, including culture, socialization, social inequality, and more, through the window of the sociological perspective—the deeper understanding of how society affects you and how you affect society.

**SOCY 102 Contemporary Social Issues (3)**

This class examines how societies create, perpetuate, and address contemporary social issues, including crime, poverty and economic inequality, racial, ethnic and gender discrimination and environmental degradation. You will engage in a discussion regarding your civic responsibility to become involved in efforts to address these issues in a local and global context.

**SOCY 103 Sociology of the Family (3)**

An analysis of the family in its social context. Emphasis placed on how socio-cultural factors influence social interaction within families, on social change effects on families and on the relationship of families to the total social system.

**SOCY 109 Special Topics in Sociology (3)**

A seminar focused on a specific topic within sociology that introduces students to the discipline, its way of thinking and methods of conducting research.

**SOCY 260 Development of Social Thought (3)**

The emergence of sociology as a response to the Industrial Revolution and as an attempt to develop a scientific understanding of social organization, behavior and change. Reviews the historical origins of social ideas about society and how these affect modern sociological thinking. This is a required foundation course for Sociology majors and minors completed during the first 18 hours.

*Prerequisite:* SOCY 101 or SOCY 102.

**SOCY 271 Introduction to Social Research (3)**

An introduction to theories and philosophies of social research; tasks and issues in designing research; and

sociological methods of data collection. This is a required foundation course for Sociology majors and minors completed during the first 18 hours. Students from other fields welcome.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 272 Making Sense of Sociological Data (3)**

Introduction to widely used techniques for analyzing quantitative sociological data. Attention to statistical description and inference, presentation of data, interpreting statistical analyses, and using software for statistical analysis. This is a required foundation course for Sociology majors and minors completed during the first 18 hours. Students from other fields welcome.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 290 Field Experience (1-3)**

This course will be paired with appropriate sociology courses where the course curriculum will benefit from supplemental experiences outside the classroom or where more individualized instruction is necessary in the field.

*Prerequisite:* Must have the prerequisite for the course paired with SOCY 290 or permission of instructor.

*Co-requisite:* Sociology courses deemed appropriate by instructors.

### **SOCY 331 Society and the Individual (3)**

A survey of the manifold ways in which social structure and personality interact. Among the topics covered will be socialization, attitude formation and change, cognition and perception and collective behavior.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 332 Collective Behavior (3)**

An examination of the theories and literature, both historical and contemporary, relevant to the more dramatic forms of human social behavior: panics, riots, revolutions and the like.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 335 Aging and the Family (3)**

With increasing life expectancy and the enormous growth in the 65+ population, family as a social institution has experienced unprecedented change. We will examine how the graying of the population has brought about

fundamental changes in family relationships and structure.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 336 Death and Dying (3)**

Review of historical and contemporary perspectives on dying and death, including current American practices regarding death, as well as cross-cultural interpretations. Terminal illnesses, biomedical ethical issues, the legal aspects of dying, and the business of dying are discussed in addition to dying and grieving throughout the life cycle.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 337 Prejudice (3)**

This course examines what prejudices are, how they are formed, the consequences they have and the social purposes they serve. Three types of prejudice are investigated: race, class and gender. In addition, the course explores the relationship between prejudice and discrimination and the conditions under which changes in prejudice occur.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 339 Special Topics in Social Psychology (3)**

An intensive examination of some special topic in social psychology. Formulation of the specific subject matter for the course will reflect both student and faculty interest.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 340 Medical Sociology (3)**

This course presents a critical perspective on the institution of medicine in society and examines the socio-cultural aspects of health and illness, the epidemiology and social demography of health, the behaviors associated with health and illness, the medical professions in a changing society, the social construction of health and illness, the medicalization of diagnostic and treatment processes and health care delivery systems regarding medical care.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 341 Criminology (3)**

This course explores the social and political forces that shape what becomes defined as criminal behavior and how society reacts to crime. The course will consider the principle theories of crime and their application to contemporary

crime issues, including corrections, rehabilitation, the organization of crime as entrepreneurial activity, and crime prevention programming.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 342 Juvenile Delinquency (3)**

A detailed analysis of the nature, extent, and causative theories of juvenile delinquency, and an evaluation of treatment and preventative programs designed to reduce juvenile delinquency.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 344 Social Gerontology (3)**

An overview of the field of gerontology. The complex experience of aging is studied within a multidisciplinary approach, with emphasis on the contributions of research from sociology, biology and psychology. This course examines how society understands, experiences and views aging as well as how the aging understand, experience and view society.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 345 Social Policy (3)**

Traces the development of social policy in the United States as an attempt to deal with social problems and establish social control. The course critically evaluates U.S. social policy and political struggles over allocation of resources and organizations assembled to carry out policy.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 346 Environmental Sociology (3)**

Analyzes the current crisis of the global environment in both empirical and theoretical terms. Class, race, gender and globalization issues as related to environment, assumptions, and interests present in conceptualizations of environmental issues and solutions, and institutional and non-institutional agency in the creation of environmental problems and formation of environmental responses will be considered.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 348 Sociology of Alcohol and Drugs (3)**

The course will address social and cultural factors that affect drug use and the prevention and treatment strategies developed to deal with drug problems. Attention will be paid to the

disease/behavioral disorder controversy, to the possibility of controlled use and to the role played by self-help groups and therapeutic communities.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 349 Special Topics in Social Problems (3)**

An intensive examination of some special topic in social problems. Formulation of the specific subject matter for the course will reflect both student and faculty interest.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 351 Urban Sociology (3)**

An in-depth case-study and theoretical examination of contemporary urbanization with a focus on community, culture, politics, economics and environmental sustainability in relation to class, race and ethnicity and gender dimensions. The future of cities will also be addressed as we explore the relationship between urbanization and other key forces such as suburbanization, globalization, environmental deterioration and the technological and communications revolutions.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 352 Population and Society (3)**

An introduction to the basic concepts, theories, and methods of population analysis. In addition, major issues related to population growth will be examined from a problem-solving perspective.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 355 Science Technology and Society (3)**

This course examines the inter-relationships among science, technology and society. Students will explore the differences between science and technology and understand the symbiotic relationship between them. Changes in social organization resulting from the acceleration of scientific knowledge and new technology will also be investigated.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 356 Sociological Perspectives on Religion (3)**

An introduction to the study of religion as a social institution. Topics may include the major classical and contemporary sociological theories on religious organization, experience and practice; the relationship between

religious organizations and other social institutions; and the structure and change in the religious landscape in contemporary American society.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 357 Political Sociology (3)**

An overview of classic and contemporary understandings of political relations from the sociological perspective. This course focuses on the nature of power including sources of authority, political elites, functions of the state, political culture, political socialization, community power structures, patterns of political participation and social movements.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 358 Living in an Organizational World (3)**

Sociological thinking about organizations in contemporary society and their impact on our lives. Emphasis on exploring the range of frameworks to think about and explain organizational structures in a global context, the relationship between individuals in organizations, between individuals and organizations, and between organizations.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 359 Special Topics in Social Organization (3)**

An intensive examination of some special topics in social organization. Formulation of specific subject matter for the course will reflect both student and faculty interest.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 360 Class, Power, and Privilege (3)**

A critical analysis of the distribution of class, power and privilege in the United States, theories of class, power and mobility, and the implications of a global economy.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 361 Child Welfare (3)**

An in-depth sociological consideration of children as a minority group and of inequalities between different categories of children, with attention to issues such as child care, education, health, youth employment, poverty, child maltreatment, foster care, and adoption both internationally and domestically. Special attention will be given to

describing and evaluating societal attempts to deal with these issues.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 362 Social and Cultural Change (3)**

The study of the sources, patterns, and consequences of social change in various social structures, social institutions and across historical and/or global contexts.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 364 Gender and Society (3)**

A survey of topics in the sociology of gender. Emphasis placed on the economy, family and state as gendered social institutions, and how changes in the cultural notions of gender take place within social institutions.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 365 Sociology of Music (3)**

This course analyzes music as a social phenomenon with special attention to race, class, gender, ethnicity, technology and social change. It looks at how musicians and their music influence society, and vice versa, using macro and micro sociological perspectives, embedded within various historical and cultural themes.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 366 Race and Ethnic Relations (3)**

An in-depth examination of the problems associated with race and ethnic relations in contemporary American society.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 369 Special Topics in Social Inequality (3)**

An intensive examination of some special topic in social inequality. Formulation of the specific subject matter for the course will reflect both student and faculty interest.

*Prerequisite:* SOCY 101 or SOCY 102.

### **SOCY 381 Internship (1-6)**

The internship provides a supervised field experience with a local public, private or non-profit organization. The internship permits students to apply their relevant sociological or gerontological knowledge to meet the challenges of a practical setting.

*Prerequisite:* Junior standing, B average in sociology and overall average of C+, a major or minor in sociology, 12 hours in

sociology and/or permission of the instructor. Course prerequisites may vary depending on the nature of the placement. Students should sign up for the internship the semester before they plan to complete the internship. Visit the sociology department for details for both sociology and gerontology internships.

#### **SOCY 382 Student Research Apprenticeship in Sociology (1-6)**

Qualified students supervised by faculty engage in collaborative research with faculty. Activities may include interviews, observations, and questionnaire construction; data collection, transcribing, coding and analysis; interpreting data, writing articles and presenting research at professional conferences.

*Prerequisites:* GPA of 3.0 in sociology, a major or minor in sociology, and permission of the instructor. Other course prerequisites may vary depending on the nature of the placement.

#### **SOCY 383 Student Academic Apprenticeship in Sociology (1-6)**

Qualified students selected and supervised by faculty engage in activities that facilitate teaching and learning in specific course(s). Activities may include helping with in-class activities and labs, holding discussion or review sessions; answering student questions.

*Prerequisites:* Junior standing, a GPA of 3.0 in sociology, a major or minor in sociology, and permission of the instructor. Other course prerequisites may vary depending on the nature of the placement.

#### **SOCY 390 Senior Seminar (3)**

A capstone course required of all sociology majors. Specific topics will vary depending on the instructor's interests and expertise. Students will be asked to demonstrate their understanding of the connection between theoretical perspectives, research methods and empirical results through examinations, a research project, an analytical paper, or some combination of the above.

*Prerequisites:* SOCY 101 or 102; 260, 271, 272 and 18 hours in the major. Or permission of the instructor.

#### **SOCY 399 TUTORIAL (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisites:* Junior standing plus permission of the tutor and the department chair.

#### **SOCY 490 Independent Study (1-3)**

Individually supervised readings and study of some sociological work, problem or topic of the student's interest.

*Prerequisites:* Junior standing, GPA of 3.0 in sociology, an overall GPA of 2.5, a major or minor in sociology and permission of the instructor.

#### **SOCY 492 Advanced Field Experience (1-6)**

This course will study sociology in the field rather than on campus in the traditional classroom setting. As a result, the class will meet in a retirement community, assisted living facility, a prison, or other setting relevant to the topic of the class.

*Prerequisite:* Permission of Instructor.

*Note: This class will not be offered on a regular basis.*

#### **SOCY 499 Bachelor's Essay (6)**

A year-long research and writing project during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## **Spanish Courses**

#### **Spanish Courses (Note)**

*See Hispanic Studies on page 195 for the list of Spanish courses.*

## **Spoletto Course**

#### **SPOL 150 Music and the Arts in the Spoleto Festival USA (3)**

An interdisciplinary survey of the performing and visual arts at the Spoleto Festival USA. Guest lectures and demonstrations by Spoleto and Piccolo Spoleto participants. Coursework includes attendance at events and written

reviews. This course will be team taught by faculty from the School of the Arts. (Maymester only.)

## **Studio Art Courses**

#### **ARTS 118 Issues and Images of Contemporary Art (3)**

A studio-oriented course for beginning and advanced students that explores the fundamental concepts and content in today's art. Through extensive individual drawing, reading, and discussion, the roots and meanings of our art are confronted in terms of the relationship between images and the techniques that generate these images, and social, economic, political, and aesthetic attitudes. Technique and methods are considered for their basic qualities and differences in painting, graphics, sculpture, and drawing.

#### **ARTS 119 Drawing I (3)**

Through the development of visual perception, students will explore a variety of objects and environments, using the fundamental elements of drawing – line, shape, form, value, texture, space, and composition – to create images and express individual ideas with a variety of graphic media and approaches. ARTS 118 may be taken concurrently with this course.

#### **ARTS 215 Photography I (3)**

This course will cover the basic technical and creative problems in black-and-white photography. By using a variety of photographic techniques, the intricacies of camera operation, basic composition, and developing and printing are introduced. At the same time, emphasis will be laid on the development of both a personal imagery and a sound technical grasp of the medium. A 35mm film camera with manual exposure settings is required for this class.

*Prerequisite:* ARTS 119.

#### **ARTS 216 Painting I (3)**

Further study of drawing and painting techniques, with special emphasis on color and composition.

*Prerequisite:* ARTS 119.

**ARTS 218 Printmaking I (3)**

Introduction to fundamental techniques of graphic art processes, including monotype, basic relief and intaglio printing techniques. Emphasis will be on the development of a personal imagery, as well as technical understanding of process.

*Prerequisite:* ARTS 119 or permission of the instructor.

**ARTS 220 Sculpture I (3)**

Introduction to fundamental processes and materials of sculpture, including wood, metal, and plaster. Emphasis placed on exploration of materials as potentially expressive of ideas in three-dimensional form.

**ARTS 315 Photography II (3)**

This course extends and elaborates the groundwork covered in ARTS 215. Through a series of individual projects of increasing complexity, the student will be introduced to alternative and experimental techniques in black-and-white photography. Emphasis on the photographic process as a creative medium will be stressed throughout the course as students are encouraged to develop a personal imagery.

*Prerequisite:* ARTS 215.

**ARTS 319 Drawing II (3)**

Continuation of ARTS 119 with emphasis on the use of the human figure in space as a compositional element.

*Prerequisite:* ARTS 119.

**ARTS 322 Painting II (3)**

Continuation of ARTS 216, with greater emphasis on the expression and technique of the individual student. Large-scale paintings, additional study in the use of various painting media.

*Prerequisite:* ARTS 216.

**ARTS 323 Printmaking II (3)**

Exploration of the etching process through the use of drypoint, hard and soft ground and aquatint techniques; emphasis placed on development of personal imagery and aesthetic goals.

*Prerequisite:* ARTS 218 or permission of the instructor.

**ARTS 324 Sculpture II (3)**

A further opportunity to increase abilities in the creative processes of sculpture. A wider range of choices will be left to the individual within a still-structured environment of criticism and instruction.

*Prerequisite:* ARTS 119 and 220 or permission of the instructor.

**ARTS 325 Foundry (3)**

Further exploration in sculpture with a focus on patternmaking, mold making and casting using a variety of materials.

*Prerequisite:* ARTS 324 or permission of the instructor.

**ARTS 326 Drawing III (3)**

Continuation of ARTS 319.

*Prerequisite:* ARTS 319 or permission of the instructor.

**ARTS 327 Advanced Photographic Techniques (3)**

This hands-on course will enable students to transform their photographic images with advanced alternative techniques. This course is a direct continuation and elaboration of ARTS 315 with an emphasis on creating a concentrated series of photographs.

*Prerequisites:* ARTS 215 and ARTS 315 or permission of the instructor.

**ARTS 328 Painting III (3)**

Further development of the language skills needed to express clear visual thought. Emphasis on color and drawing and on overall composition in relation to the painter's intention and achievement.

*Prerequisite:* ARTS 322.

**ARTS 329 Lithography (3)**

Further development of ideas into visual statements using the medium of lithography.

*Prerequisite:* ARTS 218 or permission of the instructor.

**ARTS 330 Sculpture III (3)**

Intermediate study of sculpture, investigating issues of material, process, and content.

*Prerequisite:* ARTS 324 or permission of the instructor.

**ARTS 331 Painting IV (3)**

Continuation of ARTS 328.

*Prerequisite:* ARTS 328.

**ARTS 332 Advanced Printmaking (3)**

An advanced course designed for students who have had previous technical experience with the various printmaking media. The goal of this course is to enable students to investigate personal concerns and objectives through an ambitious and concentrated body of work.

*Prerequisite:* ARTS 323 and/or ARTS 329 or permission of the instructor.

**ARTS 333 Sculpture IV (3)**

Advanced studies in sculptural issues, materials, and processes.

*Prerequisite:* ARTS 330 or permission of the instructor.

**ARTS 334 Advanced Photography (3)**

In this course the student will work towards producing an ambitious and concentrated body of work while simultaneously refining their technical skills in photography.

*Prerequisites:* ARTS 215 and ARTS 315 or permission of the instructor.

**ARTS 335 Selected Topics in Advanced Studio Practice (3)**

Intensive studies in specialized aspects of studio practice. Topics will vary according to faculty and student interests. Topics to be offered may include: advanced color theory; the extension and application of drawing; jumbo prints; advanced figure studies in drawing and painting.

*Prerequisite:* Will vary according to topic.

**ARTS 339 Drawing IV (3)**

This course in advanced drawing will focus on the narrative or thematic possibilities of drawing. Style, subject, materials, and techniques will be decided upon by the student. Live models will also be used.

*Prerequisite:* ARTS 326 or permission of the instructor.

**ARTS 410 Internship in Studio Art (3)**

Provides students with an experiential learning and research opportunity with a sponsoring Studio Art oriented organization.

*Prerequisite:* Junior standing and above with permission of the faculty of the Studio Art Program.

### **ARTS 430 Independent Study in Studio Art (3, Repeatable)**

Students who have taken an appropriate sequence of preparatory courses in studio art determine a project in consultation with a department member qualified to guide and judge the work.

*Prerequisite:* Students must be juniors or seniors and show demonstrated ability to carry out proposed project. An application for independent study must be submitted to the project advisor prior to the beginning of the term and must be approved by the department chair.

## **Teacher Education Course**

### **TEDU 205 Exploring Leadership: Building Peer Facilitation Skills (2)**

The purpose of this course is to enroll a group of faculty nominated students who will facilitate student experiences. Students will develop peer facilitation skills through reading, discussing, and collaborative learning about leadership, facilitation, and the historical background. Additionally, the students will learn about the factors that influence student development, such as personal values, gender, and culture.

*Prerequisite:* Students must be nominated to serve as a Peer Facilitator in order to enroll in this course. Enrollment in this course requires faculty nomination.

## **Theatre Courses**

### **THTR 135 Elementary Jazz Dance (2)**

An introduction to the linear, percussive style of jazz dance, the uniquely American combination of multi-cultural dance styles to the world of dance. An activity course in which the basics of jazz dance will be learned. Crosslisted with PEHD 135.

### **THTR 137 Elementary Modern Dance (2)**

Introduction to the technique of modern dance. Emphasis on basic movement forms of modern dance and elementary

improvisational techniques. Crosslisted with PEHD 137.

### **THTR 138 Intermediate Modern Dance (2)**

Instruction at the intermediate level in the technique of modern dance. Emphasis upon building the basic movement forms as taught in Elementary Modern Dance into patterns, repetitions, and variations used in the structuring of dance pieces. Review of the choreography work of the founders of modern dance. Crosslisted with PEHD 138.

*Prerequisite:* THTR/PEHD 137.

### **THTR 145 Elementary Tap (2)**

This course is an introduction to the basic technique, rhythms, and styles of tap dance. Emphasis on practical application, including terminology, center and across the floor work.

### **THTR 146 Intermediate Tap (2)**

This course builds on the basic technique learned in beginner tap. Students will explore different styles more thoroughly and work on choreography as well as the incorporation of the development of improvisational tap work.

*Prerequisites:* THTR 145.

### **THTR 176 Introduction to Theatre (3)**

Introduction to the history, literature, principles and techniques of the theatre. This course requires attendance at events and written critical responses. Course for non-majors.

### **THTR 180 Stage Makeup (1)**

Instruction in the principles of the art and techniques of makeup so that the actor may use them creatively in the design and execution of makeup, which will assist in the development and projection of the character.

*Prerequisite:* THTR 240 or 277.

### **THTR 185 Beginning Ballet (2)**

Introduction to technique and terminology of classical ballet. Emphasis on practical application, including barre and center floor work. Crosslisted with PEHD 185.

### **THTR 186 Intermediate Ballet (2)**

Instruction at the intermediate level in the technique of classical ballet, intermediate barre, center floor work and

combinations. Crosslisted with PEHD 186.

*Prerequisite:* THTR/PEHD 185.

### **THTR 200 General Practicum (1)**

Supervised participation in theatre/dance production in the areas of publicity/promotion, box office, student teaching, and in connection with theatre production outside of mainstage season. Occasional group meetings scheduled. Combined with THTR 201 and THTR 202, may be repeated up to six credits, but no more than three credits may be applied to graduation.

*Prerequisite:* Permission of the instructor.

### **THTR 201 Production Practicum (1)**

Supervised participation in theatre/dance production in the technical areas, such as costume and set construction, lighting, and sound. Occasional group meetings scheduled. Combined with THTR 200 and THTR 202, may be repeated up to six credits, but no more than three credits may be applied to graduation.

*Prerequisite:* Permission of the instructor.

### **THTR 202 Theatre Performance Practicum (1)**

Supervised participation in theatre/dance production in the area of performance or stage management. Combined with THTR 200 and THTR 201, may be repeated up to six credits, but no more than three credits may be applied to graduation.

*Prerequisite:* Permission of the instructor.

### **THTR 207 Drafting & Rendering for Theatre (3)**

A studio course in the graphic techniques used by the theatrical designer. Topics covered include architectural lettering, hand drafting of ground plans and detail drawings, color blending, rendered painting of surface materials, and 3-dimensional renderings. Students will use acrylic paints and pencil drafting tools.

*Prerequisite:* THTR 209 or THTR 240.

### **THTR 209 Stagecraft I (3)**

An introduction to basic principles and practices of stagecraft. The course will emphasize scenic construction, fly systems, backstage organization, and

drafting techniques. Lecture and laboratory.

### **THTR 212 History of American Theatre (3)**

The American theatre from the colonial period to the present. The course will survey those theatrical elements that are uniquely American and will include a discussion of the historical and intellectual context of the theatre experience in the United States.

### **THTR 214 Modern American and European Drama (3)**

Plays will be studied with an emphasis on the production requirements of the texts. The plays will be read in the context of the original production as well as significant revival stagings of them. There will be an introduction to the primary study of post-1880 drama and theatrical performance.

### **THTR 221 Creative Drama I (3)**

An introduction to the educational philosophy and basic techniques of creative drama and its applications for theatre rehearsal and production, as well as actor training. Emphasis upon creative drama as a tool for instruction of groups of all ages in theatre, recreational, and classroom situations.

### **THTR 240 Costume I: Introductory Studies (3)**

Practical and theoretical projects will emphasize special problems related to the design, history, and construction of garments for the stage. Projects will include basic construction techniques, research into historical styles, and a synthesis of these into design projects. Lecture and laboratory.

### **THTR 270 Stage Management (3)**

An introduction to the basic practice of stage management. The course will emphasize organizational and supervisory skills needed in the production of a play. Course requirements will include work on a prompt script as well as other practical projects.

*Prerequisites:* THTR 209, 276, and either 201 or 202.

### **THTR 276 Script Analysis (3)**

A study of the standard systems of classification used to examine the text of a play. Emphasis on script analysis from the perspective of a theatre practitioner.

### **THTR 277 Acting I: Basic Approach (3)**

An introduction to the art and craft of acting. The course encourages self-exploration of the voice, body, and imagination to develop expressiveness and the ability to play simple performance actions.

### **THTR 280 Scene Painting (3)**

A studio class in painting techniques for theatre. The student will investigate the techniques and methods the scenic artist uses in creating the illusions of traditional scenography.

*Prerequisite:* THTR 209.

### **THTR 289 Special Topics (1-3)**

Basic investigation of specific problems or topics in theatre, as announced when offered. May be repeated for credit with different course topics.

### **THTR 310 Theatre History & Literature to 1750 (3)**

A study of the development of the theatre and its literature from the Greeks to 1750, including a survey of plays, actors, theatre architecture and production arrangements. Emphasis will be on the role that theatre and theatrical texts played within the society of their creation.

*Prerequisite:* Junior or senior standing.

### **THTR 311 Theatre History and Literature after 1750 (3)**

A study of the development of the theatre and its literature after 1750, including a survey of plays, actors, theatre architecture and production arrangements. Emphasis will be on the role that theatre and theatrical texts played within the society of their creation.

*Prerequisite:* Junior or senior standing.

### **THTR 315 Feminist Theatre (3)**

This course will read, view and discuss Feminist Theatre as an agent for social and theatrical change. Differing interpretations of the genre and examples from throughout history will be examined, with an emphasis on artists of the last 30 years. Course readings will include theory, criticism, theatrical texts and interviews.

### **THTR 316 African American Theatre (3)**

The study of the role, scope, and significance of African American theatre

in modern society through the reading of representative plays and examination of individuals and organizations that have fostered the development and growth in the field.

*Prerequisite:* Junior or senior standing.

### **THTR 318 History of Fashion and Manners (3)**

This course will allow the student to develop an overview and recognition of Western costume and fashion from pre-history to the present. Through lecture, discussion and research, the course will examine the social, political and practical influences upon dress and mannerism.

### **THTR 321 Children's Theatre (3)**

This course has two primary components. The first is a survey of children's theatre, including its history and philosophy as well as the literature of the genre. The second is a practical study of how the younger audience affects the production aspects of playwriting, acting, directing and design of the children's play.

### **THTR 322 Children's Theatre Repertory (3)**

This course gives the student practical experience in all aspects of producing classic and new productions for youth and with youth. The class format will include research, writing, scene work, design presentations, rehearsals, performing, and administrative production. Students will gain skills and experiences that can be applied to a career in Professional Theatre for Youth, Recreation and Community Theatre.

*Prerequisite:* THTR 277.

### **THTR 323 Creating Scene and Song (3)**

This course provides students with practical experience in creating and performing original musical theatre material. Students will study representative productions to gain a theoretical understanding of the creation and collaboration process. Then, as a class, they will create and perform their own original show for the college community and/or area schools.

### **THTR 331 History of Dance (3)**

A comprehensive historical study of the development of dance from primitive times to the present. Review of significant dancers, choreographers, works, and companies. Overview of accompanying developments in

music/opera, theatre and fine arts in each period.

### **THTR 332 Dance Choreography (3)**

Instruction in the principles of dance choreography. Emphasis upon the creative processes involved in choreographing for dance through practical studio work. Review of standard choreographic works.

*Prerequisites:* THTR/PEHD 185 and 137.

### **THTR 338 Dance Ensemble (2)**

Practical studio work in the choreography and rehearsal of dance pieces in preparation for performance. Repeatable up to six credits.

*Prerequisite:* THTR 332

### **THTR 339 Advanced Ballet (2)**

This class is designed to give the advanced dance students an opportunity to further their dance technique and give performance experience. Emphasis will be placed on ballet technique and classical style. Dancers will be given performance opportunities.

*Prerequisites:* THTR 185 and 186.

### **THTR 340 Costuming II: Pattern Drafting and Advanced Sewing Techniques (3)**

An advanced course that explores concepts in pattern drafting and draping techniques. Included will be a survey of a history of period costumes.

*Prerequisite:* THTR 240.

### **THTR 350 Selected Topics in Communication Production (3)**

Special studies in film, radio, and television production with topics to be announced when offered. May be repeated for credit with different topics.

### **THTR 355 Playwriting I (3)**

A study of playwriting, including analysis and critique of scripts. Each student will complete a series of exercises and write a one-act play.

*Prerequisite:* THTR 276.

### **THTR 360 Voice for the Theatre (3)**

A study and practice of vocal techniques to develop alignment, breathing, resonance and articulation appropriate to stage performance.

*Prerequisite:* THTR 376.

### **THTR 365 Musical Theatre Perform Workshop (3)**

This course explores the unique acting challenges incumbent to and required of the musical theatre performer. As such, the course is a study and practice of some of the basic characterization and vocalization techniques necessary for an effective and affective performance.

*Prerequisites:* THTR 276 and 277.

### **THTR 375 Movement for Actor (3)**

A study of movement techniques focusing on physical exercises that explore basic concepts of space, time, energy and characterization. Actors will develop a personal awareness via centered and off-centered explorations of body commitment to physical action.

*Prerequisite:* THTR 376.

### **THTR 376 Acting II: Characterization (3)**

An intermediate course in the study of acting with particular emphasis on approaches to characterization. Work will include vocal and physical exercises, improvisations and scene study presentations.

*Prerequisite:* THTR 276 and 277.

### **THTR 377 Acting III: Style (3)**

Research and performance of scenes from period plays, using skills developed in the preceding courses. The work will draw from a wide variety of period plays in order to develop an understanding and awareness of acting in different theatrical styles.

*Prerequisites:* THTR 360, 375, and 376.

### **THTR 378 Principles of Directing for Theatre (3)**

Basic concepts of the directing process, including script analysis, staging practices, director/designer communications and rehearsal techniques. The semester will culminate in a program of student directed scenes.

*Prerequisites:* THTR 209, 240, 276, and 277.

### **THTR 380 Sound Design and Production for the Stage (3)**

An examination of both aesthetic and technical elements of sound design as part of the production of plays. Topics will include research, articulation of concepts and design preparation – as well

as processes of manipulation of recorded sound and editing for performance.

*Prerequisites:* THTR 209, 276, and either 201 or 202.

### **THTR 381 Stagecraft II (3)**

An examination of advanced stage mechanics, scenic construction and drafting techniques. Lectures and laboratories.

*Prerequisites:* THTR 207 and 209.

### **THTR 382 Stage Lighting (3)**

An intensive study of the technical and design elements of stage lighting. The class surveys equipment and techniques with practical exercises oriented around the theatrical productions scheduled that semester.

*Prerequisite:* THTR 209.

### **THTR 383 Scenic Design (3)**

An exploration of the principles of scenic design with emphasis given to drawing, painting, drafting and model making. Lecture and laboratory.

*Prerequisites:* THTR 207, 209 and 276.

### **THTR 387 Contemporary Theatre (3)**

An in-depth study of the eclectic, experimental, and hybrid nature of the theatre of the 21st century, with special emphasis on the surreal, the non-narrative as well as new approaches to dramatic naturalism.

### **THTR 388 Dramatic Theory & Criticism (3)**

A study of theories of drama ranging from classical Greece to the modern theatre. Topics will include censorship, audience reception, views on the purpose and ideal structure of theatre, production methodologies and dramaturgical writing and criticism.

### **THTR 391 Stage Combat (3)**

A course in the technical and theoretical fundamentals of stage combat. Students will develop the physical skills necessary for being an expressive and safe performer of stage fights and learn the foundations of exciting fight choreography. Classes will be physical and theoretical in nature exploring effective combat choreography and practice.

*Prerequisite:* THTR 375

**THTR 399 Tutorial (1-3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).

*Prerequisite:* Junior standing.

**THTR 421 Creative Drama II (3)**

This course will build upon foundational knowledge gained from the prerequisite courses of Creative Drama I. It will introduce the student to advance theories, practice, and styles of Creative Drama through readings, discussion, teaching labs, rehearsal and performance projects working with area students in school and after-school programs.

*Prerequisites:* THTR 221, 321, and 322.

**THTR 440 Costume Design (3)**

An examination of costume design with an emphasis on research, design preparation, articulation of concept, scenographic analysis and advanced rendering techniques.

*Prerequisites:* THTR 207, 240 and 276.

**THTR 450 Internship in Theatre (3)**

Designed to provide the advanced student with the opportunity to pursue a research topic in the context of an experiential learning situation. Open to junior and senior theatre majors only.

**THTR 455 Playwriting II (3)**

Advanced study of the process of writing the one-act play. Emphasis on concept, first draft and revision.

*Prerequisite:* THTR 355.

**THTR 489 Seminar: Selected Topics in Theatre II (1-3)**

Concentrated investigation of specific problems in theatre, as announced when offered. May be repeated for credit with different research topics.

*Prerequisite:* Permission of the instructor.

**THTR 490 Independent Study: Theatre (1-3)**

The student who has taken an appropriate sequence of preparatory courses in one area or problem of theatre determines a project in consultation with a department member qualified to guide and judge the work.

*Prerequisite:* Open to junior and senior Theatre majors with overall GPAs of at

least 2.75 and theatre GPAs of at least 3.3 with permission of the department.

**THTR 499 Bachelor's Essay (6)**

A year-long research and writing project done during the senior year under the close supervision of a tutor from the department. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the department prior to registration for the course.

## Transportation Courses

**TRAN 260 Special Topics in Transportation (3)**

An in-depth treatment of a current area of special concern within the field of transportation.

**TRAN 311 Intermodal Transportation (3)**

This is an in-depth treatment of trends and contemporary management problems peculiar to transportation modes including rail, highway, air, water and pipeline. The course will also examine comparative evaluations of cost behavior and pricing among different transportation modes.

*Prerequisites:* ECON 200, 201, junior standing.

**TRAN 312 Global Logistics (3)**

An introduction to logistics management that is concerned with the coordination of physical flow through the firm from raw materials to the delivery of finished goods to the user or consumer. Special emphasis will be placed on the impact of intermodal transportation on logistics systems.

*Prerequisites:* ECON 200, 201, junior standing.

**TRAN 360 Special Topics in Intermodal Transportation (1-3)**

In-depth treatment of current areas of special concern within the field of intermodal transportation. A maximum of six hours of special topics courses may be applied toward the business major elective requirement.

*Prerequisite:* Junior standing; other prerequisites depending on topic.

**TRAN 399 TUTORIAL (3, Repeatable up to 12)**

Individual instruction given by a tutor in regularly scheduled meetings (usually once a week). The student must take the initiative in seeking a tutor to help in the design and supervision of the project. A maximum of six hours of tutorial courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; permission of the tutor and the chair.

**TRAN 420 Independent Study (1-3)**

The student will select a reading or research project in consultation with a faculty member, who will guide the work and determine the hours of credit to be allowed. A maximum of six hours of independent study courses may be applied toward the business major elective requirement.

*Prerequisites:* Junior standing; written agreement with the instructor and chair.

**TRAN 431 Issues in Global Logistics (3)**

A senior seminar providing depth and breadth of understanding in intermodal logistics through extensive review of current literature with special attention to intermodal information systems. Limited to Global Logistics and Transportation Program seniors.

*Prerequisites:* TRAN 311, 312, MGMT 322; ECON 200, 201, 303; senior standing.

**TRAN 432 Global Logistics Systems Management (3)**

An in-depth analysis of intermodalism with a focus on the port as a linking point for domestic and international air, maritime, rail and truck transportation. Limited to Global Logistics and Transportation Program seniors.

*Prerequisite:* TRAN 311, 312, INTB 322; ECON 200, 201, senior standing.

**TRAN 444 Transportation Internship (3)**

A supplemental source of learning and enhancement to the student's academic program and career objectives through experiential education engaging the student in a unique three-way partnership between an approved agency and the school. The learning experience will be guided by a learning contract outlining

specific work and academic components. A maximum of three (3) hours of internship credit will be awarded.

*Prerequisites:* Senior standing and declared major in the School of Business and Economics.

#### **TRAN 499 Bachelor's Essay (6)**

A year-long research and writing project completed during the senior year under the close supervision of a tutor from the school. The student must take the initiative in seeking a tutor to help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the school prior to registration for the course.

*Prerequisite:* Senior standing.

## Urban Studies Courses

#### **URST 201 Introduction to Urban Studies (3)**

This course provides an introductory overview of the interdisciplinary field of urban studies. Various aspects of urban life will be explored, utilizing the insights derived from disciplines such as history, sociology, political science, economics and architecture. The focus will be the multi-faceted city and the continual interaction between its components, especially the efforts of human beings to shape the city while also being shaped by it.

*Note: This should be one of the first courses taken.*

#### **URST 310 Urban Planning (3)**

Topics will include the history of planning, macro theories of planning, goal setting and implementation within contemporary political settings. Primary emphasis will be placed upon the application of planning techniques within agencies and within urban communities; appropriate case studies will be used.

#### **URST 398 Special Topics in Humanities (3)**

This course is designed for the study of specialized topics in urban society. Topics, which change each semester, have included Charleston architecture, architecture and historic preservation in Britain and society and culture of early Charleston.

#### **URST 399 Special Topics in Social Science (3)**

This course is designed to study the development and process of policy making in a specialized field in urban society. Topics, which change each semester, have included sustainable development and geographic information systems.

#### **URST 400 Practicum (2)**

This is a supervised field-learning experience in an urban setting. The student observes and becomes involved in the functions and operations of a private sector, governmental or community agency. The weekly seminar provides a forum in which the student, in concert with the faculty coordinator, can integrate knowledge gained in the classroom with that acquired during the field experience.

*Note: Students must obtain instructor's permission the term before enrolling in this course.*

#### **URST 401 Independent Study (3)**

A study directed by a faculty member on various subjects.

*Note: Permission of both the instructor and the advisor is required before registration. A student may take no more than six hours of independent study.*

#### **URST 499 Bachelor's Essay (6)**

Independent research for the student who is a candidate for honors in the major. The student must take the initiative in seeking faculty help in both the design and the supervision of the project. A project proposal must be submitted in writing and approved by the faculty prior to registration for the course.

## Women's and Gender Studies Courses

#### **WGST 200 Introduction to Women's and Gender Studies (3)**

This is an interdisciplinary course designed to explore the rich body of knowledge developed by and about women and gender. We study gendered structures and their consequences in contemporary cultures and societies. In addition, we examine feminist theories and relevant social movements. This

course can satisfy the College's general education humanities requirement.

#### **WGST 300 Special Topics (3)**

An examination of an area in women's and gender studies for which no regular course is offered. This course may be repeated for credit if the content is different. The specific content will be listed when the course is offered.

#### **WGST 350 Gender and Violence (3)**

In-depth study of violence against women, with a service-learning component in a community settings. Topics include domestic abuse, rape, sexual harassment, and global violence. Focus on problems and potential solutions, examining violence on an institutional, symbolic, and individual level, interrogating the "personal as political," and exposing underlying power structures.

#### **WGST 356 Conservative Voices in Women's and Gender Studies (3)**

This course considers traditionalist and conservative perspectives in women's and gender studies. Topics include marriage, family life, human sexuality, work, and politics.

*Prerequisite:* WGST 200 or consent of instructor.

#### **WGST 381 Women's and Gender Studies Internship (1-4)**

An opportunity for students to integrate research with social activism through supervised field placement in areas related to the study of women and gender. Students will produce specific assignments that reflect agreed upon learning goals under the direction of the director of women's and gender studies or a program faculty member.

#### **WGST 400 Independent Study (3)**

Individually supervised readings and study of some work, problem, or topic in women's and gender studies of the student's interest. A project proposal must be submitted in writing and approved by the director prior to registration for the course.

#### **WGST 401 Capstone in Women's and Gender Studies (3)**

An intensive reading and writing seminar open to seniors pursuing a major or minor in Women's and Gender Studies.

This course will create a synthesis of their studies in the field and deepen their skills in WGST research.

Interdisciplinary topics will vary, but the curriculum will emphasize current research.

*Prerequisite:* Only open to senior students with a declared major or minor in Women's and Gender Studies.

# Appendix

## The Graduate School of the College of Charleston

853-953-5614

[gradschool.cofc.edu](http://gradschool.cofc.edu)

[gradstud@cofc.edu](mailto:gradstud@cofc.edu)

**Amy Thompson McCandless, Dean**

**David Owens, Associate Dean**

### Graduate Degree Programs

#### Accountancy

<http://sb.cofc.edu/graduate/accountancy>

Dr. Cipriano, 843.953.7166

#### Business Administration

<http://mba.cofc.edu>

Mrs. McKeever, 843.953.8112

#### Communication

<http://www.cofc.edu/communication/gradcomm/index.html>

Dr. Benigni, 843.953.7019

#### Computer & Information Sciences

<http://www.cs.cofc.edu/>

Dr. McCauley, 843.953.3187

#### Early Childhood Education

<http://ehhp.cofc.edu/tedu>

Dr. Cozart, 843.953.6353

#### Elementary Education

<http://ehhp.cofc.edu/tedu>

Dr. Cozart, 843.953.6353

#### English

<http://www.cofc.edu/~gradenglish>

Dr. Farrell, 843.953.5785

#### Environmental Studies

<http://www.cofc.edu/~environ>

Dr. Callahan, 843.953.2002

#### Historic Preservation

<http://www.clemson.edu/caah/pla/mhp>

Dr. Russell (CofC), 843.953.6352

Dr. Robbins (Clemson), 864.656.3926

#### History

<http://www.cofc.edu/~gradhist/>

Dr. Coy, 843.953.8273

#### Languages

<http://www.cofc.edu/~medlang/>

Dr. Holman, 843.953.5459

#### Marine Biology

<http://www.cofc.edu/~marine/>

Dr. Plante, 843.953.5459

#### Mathematics

<http://math.cofc.edu/grad-prog.html>

Dr. Cox, 843.953.5715

#### Middle Grades

<http://ehhp.cofc.edu>

Dr. Cozart, 843.953.6353

#### Performing Arts

<http://www.cofc.edu/music/mat.html>

Dr. Springer, 843.953.8048

#### Public Administration

<http://www.cofc.edu/~puba/>

Dr. Stewart, 843.953.6691

#### Science & Mathematics for Teachers

<http://www.cofc.edu/~medsm/>

Dr. Veal, 843.953.5734

#### Special Education

<http://ehhp.cofc.edu/tedu/>

Dr. Cozart, 843.953.6353

#### Teaching, Learning and Advocacy

<http://ehhp.cofc.edu/>

Dr. ndunda, 843.953.6353

### Graduate Certificate Programs

#### Arts Management

<http://www.cofc.edu/artmgrad/index.htm>

Mrs. Shanklin-Peterson, 843.953.8241

#### Bilingual Legal Interpreting

<http://lcwa.cofc.edu/interpreting>

Dr. Matthews, 843.953.5718

#### English to Speakers of Other Languages

<http://ehhp.cofc.edu/tedu>

Dr. Cozart, 843.953.6353

#### Gifted and Talented

<http://ehhp.cofc.edu>

Dr. Swanson, 843.953.5106

#### Service Oriented Computing

<http://www.cs.cofc.edu>

Dr. Buhler, 843.953.7146

#### Special Education

<http://ehhp.cofc.edu/>

Dr. Cozart, 843.953.6353

#### Statistics

<http://math.cofc.edu/grad-prog>

Dr. Cox, 843.953.5715

#### Urban and Regional Planning

[http://www.cofc.edu/~puba/URBP\\_certificate.html](http://www.cofc.edu/~puba/URBP_certificate.html)

Dr. Keenan, 843.953.5679

## Faculty

**ABUHAKEMA**, Ghazi M., Ph.D., Assistant Professor of International and Intercultural Studies (2008) B.A., Al-Yarmouk University; M.A., St. Michael College, Ph.D., University of Texas

**ADAMS**, Reid L., M.A., Assistant Professor of Education, Health and Human Performance (2010) B.S., M.A., College of Charleston; Ph.D. (expected), University of North Carolina

**AGREST**, Mikhail M., Ph.D., Senior Instructor of Physics and Astronomy (1995) M.S., Leningrad State University; Ph.D., The USSR Academy of Science

**AGREST**, Sofia, M.S., Senior Instructor of Mathematics (2000) B.S., M.S., Abkhazian State University

**AKIN**, Yigit, Ph.D., Assistant Professor of History (2011) B.S., Middle East Technical University; M.A., Atatürk Institute for Modern Turkish; Ph.D., Ohio State University

**ALLEN**, Marcus Tim., Ph.D., Professor of Real Estate (2008) B.A. Ph.D., University of Georgia

**ANGUELOVA**, Iana, Ph.D., Assistant Professor of Mathematics (2008) Diploma, Sofia University, Bulgaria; M.Sc., Ph.D., University of Illinois

**ARIOLI**, Kristin A., M.A., Instructor of Art History (2007) B.A., M.A., University of Southern California

**ARSENAULT**, Steven J., L.L.M., Associate Professor of Accounting and Legal Studies (1998) B.S., College of Charleston; J.D., University of South Carolina; L.L.M., University of Florida

**ARTILES**, Erica L., Ph.D., Assistant Professor of English (2006) B.A., St. Norbert College; M.A., Ph.D., Purdue University

**ASHLEY**, Douglas Daniels, Ph.D., Professor of Music (1972) B.Mus., M.Mus., Ph.D., Northwestern University; Diploma, Conservatory of Vienna

**ATTAFLI**, Abdellatif, Ph.D., Professor of French, Francophone and Italian Studies (1989) B.A., M.A., Ph.D., L'Université de Lille, III (France)

**AURIFFEILLE**, Deborah, Ph.D., Associate Professor of Sociology (2001) B.S., M.U.A., Virginia Polytechnic Institute and State University; Ph.D., Northeastern University

**AVENDANO**, Nadia, Ph.D., Associate Professor of Hispanic Studies (2003) B.A., University of California, Davis; M.A., Ph.D., University of Arizona

**AYME-SOUTHGATE**, Agnes, Ph.D., Associate Professor of Biology (1999) B.S., M.S., Ph.D., University of Geneva, Switzerland

**BAGINSKI**, Thomas, Ph.D., Professor of German and Slavic Studies (1993) B.A., University of Kiel; M.A., University of Georgia; Ph.D., The Ohio State University

**BAKANIC**, Von, Ph.D., Associate Professor of Sociology (1991) B.A., M.A., University of South Carolina; Ph.D., University of Illinois

**BAKER**, Elizabeth B., M.A., Senior Instructor of English (2004) B.A., College of Charleston; M.A., University of South Carolina

**BAKER**, Jennifer A., Ph.D., Assistant Professor of Philosophy (2004) B.A., Brown University; Ph.D., University of Arizona

**BALINSKY**, Susan E., D.P.H., Associate Professor of Health and Human Performance (1990) B.S., State University of New York at Oneonta; M.S., Indiana University; D. P.H., University of South Carolina

**BALLINGER**, Anna, Ph.D., Assistant Professor of French, Francophone and Italian Studies (1992) B.A., Sorbonne University, Paris III (France); M.A., Ph.D., Sorbonne University, Paris IV (France)

**BARFIELD**, William R., Ph.D., Professor of Health and Human Performance (1994) A.A., Brevard College; B.S., M.A., Western Carolina University; Ph.D., Auburn University

**BARNETTE**, Marie D., M.Ed., Senior Instructor of Health and Human Performance (1994) B.S., College of Charleston; M.Ed., The Citadel

**BARTEL**, Virginia B., Ph.D., Professor of Teacher Education (1990) B.A., M.Ed., University of North Carolina at Chapel Hill; Ph.D., University of Michigan

**BEAM**, Charles F., Jr., Ph.D., Professor of Chemistry and Biochemistry (1982) B.S., The City College of the City University of New York; Ph.D., University of Maryland

**BECK**, Emily, Ph.D., Assistant Professor of Hispanic Studies (2008) B.A., University of California, Los Angeles; M.A., M.Phil., Ph.D., Columbia University

**BÉKROU**, Viviane G. Ph.D., Assistant Professor of French, Francophone and Italian Studies (2006) Licence ès lettres, Université Nationale de Côte D'Ivoire, M.A., Ph.D., University of Maryland

**BENEFIELD**, Justin D., Ph.D., Assistant Professor of Finance (2006) B.S., M.A., Ph.D., University of Alabama

**BENIGNI**, Vincent L., Ph.D., Associate Professor of Communication (1999) B.A., Indiana University of Pennsylvania; M.A., Slippery Rock University; Ph.D., University of Georgia

**BERG**, Karen, Ph.D., Senior Instructor of Hispanic Studies (1990) B.A., M.A., University of New Hampshire; Ph.D., University of Massachusetts-Amherst

**BEUTEL**, Erin K., Ph.D., Associate Professor of Geology and Environmental Geosciences (2000) B.A., Macalester College; M.S., Ph.D., Northwestern University

**BIDWELL**, Deborah A., M.S., Instructor of Biology (2006) B.S., M.S., University of New Hampshire

**BIELSKY**, Katherine Higgins, M.L.S., Librarian II (1984) B.A., Catawba College; M.A., University of Tennessee; M.L.S., Florida State University

**BILLINGSLEY**, Kelvin, Ph.D., Assistant Professor of Chemistry (2010) B.S., University of South Carolina; Ph.D., Massachusetts Institute of Technology

**BIRRER**, Doryjane, Ph.D., Associate Professor of English (2002) B.A., Gonzaga University; M.A., Ph.D., Washington State University

**BISHARA**, Anthony J., Ph.D., Assistant Professor of Psychology (2008) B.A., Notre Dame University; M.A., Ph.D., Washington University in Saint Louis

**BJERKEN**, Zeff, Ph.D., Associate Professor of Religious Studies (1999) B.A., Reed College; M.A., University of California, Santa Barbara; M.A., Ph.D., University of Michigan

**BLACKWELL**, Calvin, Ph.D., Associate Professor of Economics (2001) B.A., University of Virginia; Ph.D., University of New Mexico

**BLOCKSON**, Laquita C., Ph.D., Assistant Professor of Management and Entrepreneurship (2006) B.S., M.B.A., Florida A&M University; Ph.D., University of Pittsburgh

**BLOSE**, Julia E., Ph.D., Associate Professor of Marketing and Supply Chain Management (1999) B.S., Ph.D., Florida State University; M.A., University of West Florida

**BODEK**, Richard, Ph.D., Professor of History (1990) B.A., Johns Hopkins University; M.A., Ph.D., University of Michigan

**BOETJE**, Gerard J., M.S., Senior Instructor of Computer Science (2004) B.S., M.S., Massachusetts Institute of Technology

**BORG**, Barbara E., Ph.D., Associate Professor of Anthropology (1989) B.Mus., M.A., University of Iowa; Ph.D., University of Missouri

**BOUCHER**, Christophe J. M., Ph.D., Associate Professor of History (2001) B.A., Université d'Angers, France; M.A., Ph.D., University of Kansas

**BOUCHER**, David S., Ph.D., Assistant Professor of Chemistry (2010) B.S., Southern Connecticut State University; Ph.D., Washington University in Saint Louis

**BOWERS**, Terence N., Ph.D., Professor of English (1994) B.A., University of Washington; M.A., Ph.D., The University of Chicago

**BOWRING**, James F., Ph.D., Visiting Assistant Professor of Computer Science (2006) B.S., College of Charleston; Ph.D., Georgia Institute of Technology

**BOYLE**, Deborah A., Ph.D., Associate Professor of Philosophy (1999) B.A., Wellesley College; M.A., Ph.D., University of Pittsburgh

**BRADLEY-MCKEE**, Linda, Ph.D., C.P.A., Associate Professor of Accounting (1993) B.S., University of Texas at Arlington; M.S., Texas Tech University; Ph.D., University of North Texas

**BREIDENBACH**, Carla, Ph.D., Assistant Professor of Hispanic Studies (2006) B.A., St. Olaf College; M.A., Middlebury College; Ph.D., University of South Carolina

**Brock**, Laura L., Ph.D., Assistant Professor of Teacher Education (2010) B.A., University of Georgia; Ph.D., University of Virginia

- BRUNS**, John, Ph.D., Associate Professor of English (2004) B.A., University of Notre Dame; M.A., Ph.D., University of Southern California
- BUHLER**, Paul A., Ph.D., Associate Professor of Computer Science (1998) B.S., The Citadel; M.S., Johns Hopkins University; Ph.D., University of South Carolina
- BURGESS**, Christopher N., Ph.D., Assistant Professor of Arts Management (2008) B.A., College of Charleston; M.A., Ph.D. (expected), The Ohio State University
- BURKETT**, Tracy L., Ph.D., Associate Professor of Sociology (1998) B.S., Florida State University; M.A., Ph.D., University of South Carolina
- BURNETT**, Louis E., Jr., Ph.D., Professor of Biology (1991) B.S., College of William and Mary; Ph.D., University of South Carolina
- BYRUM**, Christine A., Ph.D., Assistant Professor of Biology (2007) B.S., College of William and Mary; M.S., Clemson University; Ph.D., University of Texas at Austin
- CALCAGNO**, Peter T., Ph.D., Associate Professor of Economics (2003) B.S., Hillsdale College; Ph.D., Auburn University
- CALINI**, Annalisa, Ph.D., Professor of Mathematics (1996) M.S., Università degli Studi di Milano, Italy; M.S., Ph.D., University of Arizona
- CALLAHAN**, Timothy J., Ph.D., Associate Professor of Geology and Environmental Geosciences (2001) B.A., University of St. Thomas; M.A., Ph.D., New Mexico Institute of Mining and Technology
- CALLICOTT**, Burton, M.L.I.S., Reference Librarian II (2001) B.A., Reed College; M.A., M.L.I.S., University of South Carolina
- Calvert**, Charlie, M.F.A., Assistant Professor of Theatre (2010) B.F.A., University of Kentucky; M.F.A., NYU Tisch School of the Arts
- CAMERON**, Robert D., Ph.D., Assistant Professor of Hispanic Studies (2011) B.S., Florida State University; M.S., Florida State University; Ph.D., Florida State University
- CANBERG**, Andrea, Ph.D., Instructor/Internship Coordinator for Hospitality and Tourism Management (2006) B.A., University of Colorado; M.Ed., Georgia College & State University; Ph.D., Clemson University
- CAO**, Dongmei, M.A., Reference Librarian II (2005) B.E., Shanghai University of Science and Technology; M.L.I.S., University of Hawaii at Manoa
- CARENS**, Timothy L., Ph.D., Associate Professor of English (1998) A.B., Harvard College; M.A., Ph.D., New York University
- CAREW**, James L., Ph.D., Professor of Geology and Environmental Geosciences (1981) A.B., Brown University; M.A., Ph.D., University of Texas-Austin
- CARMICHAEL**, Noelle Zeiner, Ph.D., Associate Professor of Classics (2003) B.A., Mary Washington College; M.A., Ph.D., Indiana University
- CARMICHAEL**, Timothy, Ph.D., Associate Professor of History (2003) B.A., Northwestern University; M.A., Ph.D., Michigan State University
- CARRILLO-ARCINIEGA**, Raúl, Ph.D., Associate Professor of Hispanic Studies (2005) B.A., M.A., Universidad Nacional Autónoma de México; Ph.D., University of Tennessee
- CARROLL**, Thomas, M.Ed., Senior Instructor of Health and Human Performance (2003) B.S., College of Charleston; M.Ed., Auburn University
- CARSON**, Joseph C., Ph.D., Assistant Professor of Physics (2010) B.A. Pomona College; Ph.D., Cornell University
- CARTER**, James E., Ph.D., Associate Professor of Mathematics (1992) B.S., M.A., University of Oklahoma; Ph.D., University of Illinois
- CAVENY**, Deanna M., Ph.D., Associate Professor of Mathematics (1991) B.A., University of Southern Mississippi; Ph.D., University of Colorado
- CHANDLER**, Karen A., Ph.D., Associate Professor of Arts Management (1999) B.S., Hampton Institute; M.A., Columbia University; Ph.D., New York University
- CHARTAS**, George, Ph.D., Assistant Professor of Physics (2009) B.S., University of Patras, Greece; Ph.D., University of Wisconsin-
- CHARZEWSKI**, Jarod, M.F.A., Assistant Professor of Studio Art (2009) B.A., University of Manitoba; M.F.A., University of Minnesota
- CHERRY**, Lynn L., Ph.D., Associate Professor of Communication (1991) B.A., Cameron University; M.A., University of North Carolina at Greensboro; Ph.D., Louisiana State University
- CHIKUMA**, Yoshiki, Ph.D., Senior Instructor of International and Intercultural Studies (1999) B.A., Green Mountain College; M.Ed., Temple University; Ph.D., Purdue University
- CHOU**, Chen-Huei, Ph.D., Assistant Professor of Marketing and Supply Chain Management (2008) B.S., Chung Yuan Christian University, Taiwan; M.B.A., University of Illinois-at Chicago; Ph.D., University of Wisconsin-Milwaukee
- CIPRIANO**, Michael C., Ph.D., Assistant Professor of Accounting and Legal Studies (2006) B.A., B.B.A., University of Notre Dame; M.B.A., University of Iowa; Ph.D., University of South Carolina
- CLARK**, Andrew J., Ph.D., Assistant Professor of Biology (2010) B.S., University of Maryland, College Park; Ph.D., University of California, Irvine
- CLARKIN**, John E., Ph.D., Associate Professor of Management and Entrepreneurship (2004) B.S., University of Wisconsin; M.B.A., The Citadel; Ph.D., University of Stirling
- CLARY**, Betsy Jane, Ph.D., Professor of Economics (1984) B.S., M.S., Mississippi State University; Ph.D., University of Mississippi
- COATES**, Timothy, Ph.D., Professor of History (1995) B.A., M.A.T., University of Arizona; M.A., Ph.D., University of Minnesota
- COHEN**, David, Ph.D., Dean of Libraries, Dean of School of Languages, Cultures, and World Affairs (1981) B.A., M.A., Ph.D., University of Pennsylvania; M.L.S., Drexel University
- COLGAN**, Mitchell W., Ph.D., Associate Professor of Geology and Environmental Geosciences (1989) B.A., University of California, Santa Barbara; M.S., University of Guam; Ph.D., University of California, Santa Cruz
- COLOMINA-GARRIGÓS**, María D., Ph.D., Associate Professor of Hispanic Studies (2003) B.A., University of Alicante, Spain; M.A., Ph.D., Michigan State University
- COPE**, Dana Alan, Ph.D., Associate Professor of Anthropology (1992) B.G.S., M.A., University of Kansas; Ph.D., University of Texas at Austin
- CORMACK**, Margaret, Ph.D., Professor of Religious Studies (1994) B.A., Harvard University; M.A., M.Phil., Ph.D., Yale University
- CORY**, Wendy C., Ph.D., Assistant Professor of Chemistry (2007) B.S., University of Tennessee at Chattanooga; Ph.D., University of Florida
- COSERU**, Christian, Ph.D., Assistant Professor of Philosophy (2005) B.A., M.A., University of Bucharest; Ph.D., Australian National University

**COSSA**, Frank, Ph.D., Professor of Art History (1985) B.A., City University of New York; M.A., Ph.D., Rutgers University

**Covert**, Lisa P., Ph.D., Assistant Professor of History (2011) B.A., California State University; M.A., Yale University; Ph.D., Yale University

**COX**, Ben L., Ph.D., Associate Professor of Mathematics (1999) B.A., Ph.D., University of California, San Diego

**COY**, Jason P., Ph.D., Associate Professor of History (2003) B.A., M.A., The Ohio State University; Ph.D., University of California, Los Angeles

**COZART**, Angela C., Ph.D., Associate Professor of Teacher Education (1998) B.S., Regents College; M.A., M.S., Ph.D., University of Tennessee

**CREED**, John C., Ph.D., Associate Professor of Political Science (1992) B.A., Texas Christian University; M.A., Ph.D., University of South Carolina

**CROTTS**, John, Ph.D., Professor of Hospitality and Tourism Management (1997) B.A., Ed.S., Appalachian State University; M.S., Mankato State University; Ph.D., University of Oregon

**CUDAHY**, Diane C., Ph.D., Associate Professor of Teacher Education (1996) B.A., Trenton State College; M.S., Ph.D., University of Tennessee

**CURTIS**, Claire P., Ph.D., Associate Professor of Political Science (2001) A.B., Bowdoin College; M.A., Ph.D., Johns Hopkins University

**DANAHER**, William, Ph.D., Professor of Sociology (1996) B.A., M.S., Ph.D., North Carolina State University

**DANIELS**, Roger B., Ph.D., C.P.A., Associate Professor of Accounting (1992) B.S., College of the Ozarks; M.B.A., Southwest Missouri State University; Ph.D., University of Mississippi

**DAVIS**, Amy E., Ph.D., Assistant Professor of Management and Entrepreneurship (2007) B.A., University of Georgia, M.A., Ph.D., University of North Carolina at Chapel Hill

**DAVIS**, Carol Ann, M.F.A., Associate Professor of English (2000) B.A., Vassar College; M.F.A., University of Massachusetts

**DAVIS**, Joshua M., Ph.D., Assistant Professor of Marketing and Supply Chain Management (2009) B.S., Missouri State University; Ph.D., University of South Carolina

**DAVIS**, Julie A., Ph.D., Associate Professor of Communication (2000) B.A., M.A., Western Kentucky University, Ph.D., University of Kansas

**DAVIS**, Sara Calhoun, Ph.D., Associate Professor of Teacher Education (2003) B.S., Erskine College; M.Ed., The Citadel; Ph.D., University of South Carolina

**DEAVOR**, James P., Ph.D., Professor of Chemistry and Biochemistry (1983) B.S., Mercer University; Ph.D., University of South Carolina

**DEBURON-CONNORS**, Isaure, Ph.D., Associate Professor of Biology (2001) License, Maitrise, D.E.A., Ph.D., Université des Sciences et Techniques du Languedoc, Montpellier, France

**DEHAAN**, Kathleen A., Ph.D., Associate Professor of Communication and Associate Dean of the School of Humanities and Social Sciences (1998) B.A., University of Illinois; M.A., Emerson College; Ph.D., Northwestern University

**DEHLER**, Gordon E., Ph.D., Associate Professor of Management and Entrepreneurship (2005) B.A., University of Northern Colorado; M.A., The Ohio State University; M.A.I.R., Ph.D., University of Cincinnati

**DELAURELL**, Roxane M., Ph.D., Associate Professor of Legal Studies (2004) B.S., B.A., J.D., University of Arkansas at Little Rock; L.L.M., George Washington University; Ph.D. University of Texas at Dallas

**DELAY**, Cara, Ph.D., Assistant Professor of History (2006) A.B., Boston College; M.A., Ph.D., Brandeis University

**DELFELD**, Helen, Ph.D., Assistant Professor of Political Science (2008) B.A., University of Minnesota; Ph.D., Rutgers University

**DELGADO**, Daniel, M.A., Instructor of Hispanic Studies (2011) B.A., University of Valencia; M.A.T., University of Southern Mississippi

**DELLA LANA**, Stephen J., M.A.T., Senior Instructor of German and Slavic Studies (2003) B.A., Rutgers University; M.A., University of South Carolina

**DELLIS**, Stephanie, Ph.D., Senior Instructor of Biology (1998) B.A., B.S., Michigan State University; Ph.D., University of Wisconsin

**DEL MASTRO**, Mark P., Ph.D., Professor of Hispanic Studies (2010) B.A., Wake Forest University; M.A., Middlebury College; Ph.D., University of Virginia

**DE LUCA**, Giovanna, Ph.D., Associate Professor of French, Francophone and Italian Studies (2004) Laurea, Suor Orsola Benincasa University; M.A., Ph.D., City University of New York

**DESPLACES**, David, Ph.D., Assistant Professor of Marketing and Supply Chain Management (2007) B.S., Bentley College; M.S., Syracuse University; Ph.D., University of Rhode Island

**DEVET**, Bonnie D., Ph.D., Professor of English (1988) B.A., University of South Carolina; M.A., University of Missouri-Columbia; Ph.D., University of South Carolina

**DIAMOND**, Beverly, Ph.D., Professor of Mathematics and Interim Provost (1984) B.A., University of Prince Edward Island; M.S., Ph.D., University of Manitoba

**DIAMOND**, Jeffrey M., Ph.D., Assistant Professor of History (2004) B.A., University of Pennsylvania; Ph.D., University of London

**DICKINSON**, George E., Ph.D., Professor of Sociology (1985) B.A., M.A., Baylor University; Ph.D., Louisiana State University

**DILLON**, Robert T., Jr., Ph.D., Associate Professor of Biology (1983) B.S., Virginia Polytechnic Institute and State University; Ph.D., University of Pennsylvania

**DITULLIO**, Giacomo R., Ph.D., Professor of Biology (1994) B.S., St. Francis Xavier University; M.S., University of Hawaii; Ph.D., University of Hawaii

**DOIG**, Marion T., III, Ph.D., Professor of Chemistry and Biochemistry (1974) B.S., College of Charleston; M.S., Ph.D., University of South Florida

**DOIRE**, Louise, M.Div., Instructor of Religious Studies (2008) B.A., University of Rhode Island, M.Div., Harvard

**DONATO**, Henry, Jr., Ph.D., Professor of Chemistry and Biochemistry (1982) B.S., College of Charleston; Ph.D., University of Virginia

**DOUGHTY**, Adam H., Ph.D., Associate Professor of Psychology (2005) B.A., M.A., Ph.D., West Virginia University

**DOYLE**, Briget C., Ph.D., Assistant Professor of Geology and Environmental Geosciences (2004) B.S., Western Michigan University; B.S., M.S., Ph.D., University of Missouri-Rolla

**DRAGO**, Edmund Leon, Ph.D., Professor of History (1975) B.A., University of Santa Clara; M.A., Ph.D., University of California, Berkeley

**Dubeck**, Margaret M., Ph.D., Assistant Professor of Teacher Education (2010) B.A., Michigan State University; M.Ed., The George Washington State University; Ph.D., University of Virginia

**DUSTAN**, Phillip, Ph.D., Professor of Biology (1981) B.A., Adelphi University; Ph.D., State University of New York at Stony Brook

**DUVAL**, Barbara, M.F.A., Professor of Studio Art (1982) B.F.A., Pratt Institute; M.F.A., Yale University School of Art

**DUVALL**, J. Michael, Ph.D., Assistant Professor of English (2005) B.S., M.A., Georgia State University; Ph.D., University of Maryland

**EICHELBERGER**, Julia L., Ph.D., Professor of English (1992) A.B., Davidson College; M.A., Ph.D., University of North Carolina at Chapel Hill

**ELLIS**, Edith B., Ph.D., Senior Instructor of Health and Human Performance (2002) B.A., M.Ed., University of Virginia; Ph.D., Virginia Commonwealth University

**ENGLAND**, Michael Rohn, Ph.D., Senior Instructor of Mathematics (1990) B.A., B.S., M.A., M.B.A., University of Missouri; Ph.D., University of Virginia

**ESPINOZA**, Herbert, Ph.D., Associate Professor of Hispanic Studies (1987) B.A., M.A., Ph.D., University of California, San Diego

**EVANS**, Jocelyn D., Ph.D., Professor of Finance (2005) B.S., Barat College; M.B.A., Washington University in Saint Louis; Ph.D., University of South Carolina

**EVERETT**, Jean B., Ph.D., Senior Instructor of Biology (1998) B.S., Virginia Polytechnic Institute and State University; M.S., University of Virginia; Ph.D., North Carolina State University

**FARRELL**, Susan E., Ph.D., Professor of English (1993) B.A., Austin College; M.A., Ph.D., University of Texas at Austin

**FELTS**, Arthur A., Ph.D., Professor of Political Science (1989) A.B., Miami University; M.A., Ph.D., Pennsylvania State University

**FERGUSON**, Douglas A., Ph.D., Professor of Communication (1999) B.A., M.A., The Ohio State University; Ph.D., Bowling Green State University

**FERRARA**, Emily Marie, M.A., Librarian II and Head of Special Collections (1998) B.A., Mary Baldwin College; M.A., University of South Carolina

**FERRARA**, Merissa H., Ph.D., Assistant Professor of Communication (2005) B.A., Marquette University; M.A., Ph.D., Michigan State University

**FINCH**, Jannette L., M.A., Librarian II (2005) B.A., College of Charleston; M.L.I.S., University of South Carolina

**FINNAN**, Christine, Ph.D., Professor of Teacher Education and Anthropology (1991) B.A., University of California, Berkeley; M.A., University of Texas; Ph.D., Stanford University

**FISHER**, P. Brian, Ph.D., Assistant Professor of Political Science (2009) B.A., Auburn University; J.D., Loyola University; Ph.D., University of California, Irvine

**FITZWILLIAM**, Marie A., Ph.D., Senior Instructor of English (1992) B.A., University of Utah; M.A., Ph.D., University of Missouri

**FLORENCE**, Hope Morris, M.S., Assistant Professor of Mathematics (1978) B.A., College of Charleston; M.S., University of South Carolina

**FLYNN**, Michael G., Ph.D., Professor of Health & Human Performance (2008) B.S., Bridgewater State College; M.A., University of Maryland, Ph.D., Ball State University

**FLYNN**, Susan M., M.A., Instructor of Teacher Education (2009) B.S., Bridgewater State College; M.A. University of South Florida

**FORCONI**, Marcello, Ph.D., Assistant Professor of Chemistry (2010) M.S., University of Bologna, Italy; Ph.D., University of Sheffield, United Kingdom

**FORD**, Lynne E., Ph.D., Professor of Political Science (1991) B.A., Pennsylvania State University; M.A., Ph.D., University of Maryland

**FRAGILE**, Patrick Christopher, Ph.D., Associate Professor of Physics and Astronomy (2005) B.A., Duke University; M.S., Ph.D., University of Notre Dame

**FRANCE**, Hollis M., Ph.D., Associate Professor of Political Science (2003) B.A., Jersey City State College; M.A., Ph.D., The City University of New York

**FRANCIS**, Conseula, Ph.D., Associate Professor of English (2002) B.A., University of Southwestern Louisiana; M.A., Ph.D., University of Washington

**FRANKEL**, Sara L., M.F.A., Associate Professor of Studio Art (2003) B.F.A., University of Iowa; M.F.A., Yale University

**FRASER**, Benjamin R., Ph.D., Assistant Professor of Hispanic Studies (2010) B.A., University of Virginia; M.A., Ph.D., University of Arizona

**FRASH**, Robert E., Jr., Ph.D., Assistant Professor of Hospitality and Tourism Management (2005) A.S., Indiana University and Purdue University at Indianapolis; B.S., Ph.D., Purdue University; M.A., Ball State University

**FRAZIER**, Valerie, Ph.D., Associate Professor of English (2002) B.A., College of Charleston; M.P.A., College of Charleston and University of South Carolina; M.A., Ph.D., University of Georgia

**FRIEDMAN**, Douglas S., Ph.D., Associate Professor of Political Science (1983) B.A., Richmond College; M.Phil., Ph.D., City University of New York

**FUTRELL**, Michelle, M.A., Senior Instructor of Health and Human Performance (1999) B.A., College of Charleston; M.A., University of North Carolina at Chapel Hill

**GALUSKA**, Chad M., Ph.D., Assistant Professor of Psychology (2007) B.A., M.A., Ph.D., University of West Virginia

**GAO, BEI**, Ph.D., Assistant Professor of History (2007) B.A., M.L., University of Kitakyushu, Japan; Ph.D., University of Virginia

**GARCEAU**, Michelle E, Ph.D., Assistant Professor of History (2009) B.A., Washington University in St. Louis, M.S., Ph.D. Princeton University

**GARNER**, Dana Luttrell, Ph.D. Assistant Professor of Accounting and Legal Studies, (2008) B.A., Converse College; M.A., University of South Carolina; Ph.D., Virginia Polytechnic Institute & State University

**GARTON**, Tessa, Ph.D., Professor of Art History (1987) B.A., University of East Anglia, Norwich; Ph.D., University of London

**GATES**, Phyllis, M.A.T., Master Teacher, Miles Early Childhood Development Center (1992) B.S., M.A.T., University of Charleston, S.C.

**GAVIDIA**, Jose V., Ph.D., Associate Professor of Management and Entrepreneurship (2000) B.S., Worcester State College; M.B.A., University of Texas-Pan American; Ph.D., University of Texas

**GENTILE**, Kristen M., Ph.D., Assistant Professor of Classics (2010) A.B., Brown University; M.A., Ph.D., The Ohio State University

**GENTRY**, G. David, Ph.D., Professor of Psychology (1985) B.A.E, M.S., Ph.D., Georgia Institute of Technology

**GIGOVA**, Irina, Ph.D., Associate Professor of History (2004) B.A., American University, Bulgaria; M.A., Central European University; Ph.D., University of Illinois at Urbana-Champaign

**GOMER**, Raisa, M.A., Senior Instructor of German and Slavic Studies (2000) M.A., Kiev State Pedagogical University

- GOMEZ**, Michael A., Ph.D., Associate Professor of Hispanic Studies (2003) B.A., College of the Holy Cross; M.A., Ph.D., Boston University
- GONZALEZ**, Marvin E., Ph.D., Associate Professor of Marketing and Supply Chain Management (2004) B.S., Costa Rica Institute of Technology; M.S., Monterrey Institute of Technology; Ph.D., Purdue University
- GOODIER**, Bethany, Ph.D., Associate Professor of Communication (2001) B.A., Clemson University; M.A., Ph.D., University of South Florida
- GORDEN**, Kea L., Ph.D., Assistant Professor of Political Science (2010) B.S., Cornell University; M.A., American University; Ph.D., University of California, Santa Cruz
- GOURDIN**, Kent N., D.B.A., Professor of Marketing and Supply Chain Management (1999) B.S., M.B.A., D.B.A., University of Tennessee
- GRACE**, Carmen M., Ph.D., Assistant Professor of Hispanic Studies (2011) Universidad Complutense de Madrid; M.A., The Ohio State University; Ph.D., The Ohio State University
- GRAEFE-ANDERSON**, Rachel, Ph.D., Assistant Professor of Finance (2010) B.Sc., M.Sc., Pennsylvania State University; Ph.D., Purdue University
- GRAF**, Enrique, B.M., University Artist-in-Residence (1989) B.M., Peabody Conservatory of Johns Hopkins University
- GRANTHAM**, Todd A., Ph.D., Professor of Philosophy (1993) B.A., DePauw University; M.A., Ph.D., Northwestern University
- GREENBERG**, Daniel L., Ph.D., Assistant Professor of Psychology (2010) A.B., M.A., Ph.D., Duke University
- GREENE**, Harlan, Librarian II (2006) B.A., College of Charleston
- GROSSMAN**, Bonnie A., Instructor of Management and Entrepreneurship (2004) B.A., Ball State University; M.S., Indiana University
- GUTSHALL**, Anne, Ph.D., Assistant Professor of Teacher Education (2006) B.A., Gettysburg College; M.A., Towson University; Ph.D., University of South Carolina
- HAGOOD**, Margaret C., Ph.D., Associate Professor of Teacher Education (2002) B.S., College of Charleston; M.A., Furman University; Ph.D., University of Georgia
- HAKKILA**, Jon, Ph.D., Professor of Physics and Astronomy (2000) B.A., University of California, San Diego; M.S., Ph.D., New Mexico State University
- HALE**, Jon N., Ph.D., Assistant Professor of Teacher Education (2011) B.S., University of Wisconsin-La Crosse; M.A., University of Illinois at Urbana-Champaign; Ph.D., University of Illinois Urbana-Champaign
- HANAHAN**, Devon, M.A., Instructor of Hispanic Studies (2009) B.A., College of Charleston; M.A., University of South Carolina
- HANSEN**, David J., Ph.D., Assistant Professor of Management and Entrepreneurship (2006) B.A., M.A., Ph.D., University of Illinois at Chicago
- HAROLD**, Antony, Ph.D., Professor of Biology (1996) B.S., M.S., University of Toronto; Ph.D., Memorial University of Newfoundland
- HARRIS**, M. Scott., Ph.D., Assistant Professor of Geology and Environmental Geosciences (2007) B.S., College of William and Mary; M.S., University of Virginia; Ph.D., University of Delaware
- HARRISON**, Gary, Ph.D., Professor of Mathematics (1982) B.S., Brigham Young University; M.S., Ph.D., Michigan State University
- HART**, Edward B., Jr., D.M.A., Associate Professor of Music (1999) B.A., College of Charleston; M.M., D.M.A., University of South Carolina
- HARTLEY**, Mark, D.B.A., Professor of Marketing and Supply Chain Management (1985) B.B.A., M.B.A., Columbus College; D.B.A., Louisiana Tech University
- HAY**, Genevieve H., Ph.D., Associate Professor of Teacher Education (1991) B.S., M.Ed., College of Charleston; Ph.D., University of South Carolina
- HAYS**, Maureen, Ph.D., Professor of Anthropology (1998) B.A., Vassar College; M.A., Ph.D., University of Tennessee
- HEENEY**, Tom Edward, Ph.D., Associate Professor of Communication (1991) B.A., California State University, Long Beach; M.A., Ph.D., University of Southern California
- HEFNER**, Frank L., Ph.D., Professor of Economics (1995) B.A., Rutgers College; M.A., Ph.D., University of Kansas
- HELDRIICH**, Frederick J., Ph.D., Professor of Chemistry and Biochemistry (1982) B.S., Washington and Lee University; Ph.D., Emory University
- HENDERSON**, David L., III, Ph.D. Professor of Economics and Finance (2007) B.A., Mary Washington College; M.S., George Washington University; Ph.D., Virginia Polytechnic Institute and State University
- HESTON**, Mary Elizabeth Coffman, Ph.D., Professor of Art History (1991) B.A., M.A., Ph.D., The Ohio State University
- HETTINGER**, Edwin C., Ph.D., Professor of Philosophy (1986) B.A., Denison University; M.A., Ph.D., University of Colorado
- HICKS-TOWNES**, Faye L., Ed.D., Visiting Associate Professor of Teacher Education (2005) B.S., Knoxville College; M.S., Ed.D., University of Tennessee
- HIERS**, Martine C., Ph.D., Senior Instructor of French, Francophone and Italian Studies (1991) B.S., B.A., College of Charleston; M.A., Ph.D., University of South Carolina
- HILLENIUS**, Willem J., Ph.D., Professor of Biology (1996) B.S., Rijks Universiteit Groningen, the Netherlands; Ph.D., Oregon State University
- HITTNER**, James B., Ph.D., Professor of Psychology (1995) B.S., The Ohio State University; M.A., Ph.D., Hofstra University
- HLADKY**, Kathleen M., Ph.D., Assistant Professor of Religious Studies (2011) B.A., Miami University; M.A., Miami University; Ph.D., Florida State University
- HODGES**, Harland, Ph.D., Senior Instructor of Management and Entrepreneurship (2000) B.S., M.S., Appalachian State University; Ph.D., Clemson University
- HOFFMANN**, Heath C., Ph.D., Associate Professor of Sociology (2003) B.A., Western Washington University; M.A., Ph.D., University of Georgia
- HOLMAN**, Robyn, Ph.D., Associate Professor of French, Francophone and Italian Studies (1994) B.A., University of Texas; M.A., Ph.D., University of Colorado
- HOLMES**, Catherine D., Ph.D., Senior Instructor of English (1992) B.A., College of Charleston; M.Ed., The Citadel; Ph.D., University of South Carolina
- HOUGH**, Sheridan, Ph.D., Professor of Philosophy (1996) B.A., Trinity University; Ph.D., University of California, Berkeley
- HUBER**, Brad R., Ph.D., Professor of Anthropology (1989) B.A., Pennsylvania State University; M.A., Ph.D., University of Pittsburgh
- HUDDLESTUN**, John, Ph.D., Associate Professor of Religious Studies (1996) B.A., The Ohio State University; M.A., Ph.D., University of Michigan
- HUGHES**, Melissa, Ph.D., Associate Professor of Biology (2001) B.A., Bucknell University; Ph.D., Duke University
- HULL**, John, M.F.A., Professor of Studio Art (2007) B.A., Yale University; M.F.A., University of Illinois at Urbana-Champaign

- HURD**, Mark W., Ph.D., Associate Professor of Psychology (2003) B.S., M.A., Bradley University; Ph.D., University of Toronto
- HYND**, George W., Ed.D., Professor of Psychology and Provost and Executive Vice President for Academic Affairs (2010) B.A., M.A., Pepperdine University; M.Ed., University of Guam; Ed.D., University of Northern Colorado
- IBARRA**, Alvaro, Ph.D., Assistant Professor of Art History (2011) B.A., University of Texas at Austin; M.A., University of Texas at Austin; Ph.D., University of Texas at Austin
- INGRAM**, Tammy L., Ph.D., Assistant Professor of History (2010) B.A., M.A., University of Georgia; Ph.D. Yale University
- IRWIN**, Lee, Ph.D., Professor of Religious Studies (1991) B.A., University of Delaware; M.A., Ph.D., Indiana University
- IVEY**, Thomas A., Ph.D., Associate Professor of Mathematics (2000) B.S., University of Waterloo; Ph.D., Duke University
- IVY**, Helen A., M.L.S., Librarian II (1982) A.B., Georgia Southwestern College; M.L.S., George Peabody College
- JARUSZEWICZ**, Candace, Ph.D., Associate Professor of Teacher Education and Director, N.E. Miles Early Childhood Education Development Center (2001) B.S., M.Ed., Edinboro University of Pa.; Ph.D., Kent State University
- JAUMÉ**, Steven C., Ph.D., Associate Professor of Geology and Environmental Geosciences (2001) B.S., Tulane University; M.S., Oregon State University; Ph.D., Columbia University
- JETER**, Deborah W., M.A.T., Senior Instructor of Mathematics (1998) A.B., Queens College; M.A.T., The Citadel
- JIN**, Lei, Ph.D., Assistant Professor of International and Intercultural Studies (2009) Dazhuan, Kunming University, Yunnan, China; M.A., Ph.D, Purdue University
- JIN**, Renling, Ph.D., Professor of Mathematics (1995) M.A., Shanghai Teacher's University; Ph.D., University of Wisconsin
- JOHNSON**, Diane Chalmers, Ph.D., Professor of Art History (1970) B.A., Radcliffe College, Harvard University; M.A., Ph.D., University of Kansas
- JOHNSON**, Steve, M.F.A., Assistant Professor of Studio Art (2009) B.A., San Francisco State University; M.F.A., Arizona State University
- JOHNSON**, Timothy S., Ph.D., Professor of Classics (2011) B.A., Grace College; M.A., University of Kentucky; Ph.D., University of Illinois
- JOHNSTON**, Stephanie, M.A.T., Master Teacher, Miles Early Childhood Development Center (2001) B.A., College of Charleston; M.A.T., University of Charleston, S.C.
- JONES**, Linda R., Ph.D., Professor of Physics and Astronomy (1996) B.A., B.S., College of Charleston; Ph.D., Illinois Institute of Technology
- JONES**, Mary Blake., Ph.D., Professor of Teacher Education (1982) B.A., St. Joseph College; M.S., Southern Connecticut State College; Ph.D., University of Connecticut
- JONES**, Martin, Ph.D., Professor of Mathematics (1989) B.S., Warren Wilson College; M.S., University of South Carolina; Ph.D., Georgia Institute of Technology
- JOS**, Philip H., Ph.D., Professor of Political Science (1986) B.A., M.A., Western Kentucky University; Ph.D., University of South Carolina
- JOYCE**, Dee Dee, Ph.D., Senior Instructor in Anthropology (1993) B.A., Catawba College; M.A., University of Arkansas; Ph.D., State University of New York at Binghamton
- JURISICH**, Elizabeth G., Ph.D., Associate Professor of Mathematics (1999) B.A., Wellesley College; M.S., New York University; Ph.D., Rutgers University
- KAI**, Bo, Ph.D., Assistant Professor of Mathematics (2009) B.S., Nankai University Tianjin, China; M.S., Ph.D., Pennsylvania State University
- KASMAN**, Alex, Ph.D., Associate Professor of Mathematics (1999) B.S., University of Michigan; M.A., Ph.D., Boston University
- KATTWINKEL**, Susan, Ph.D., Associate Professor of Theatre and Director of First Year Experience (1997) B.A., College of William and Mary; M.A., Emerson College; Ph.D., University of Texas at Austin
- KELLY**, Joseph Patrick, Ph.D., Professor of English (1992) B.A., University of Dallas; M.A., Ph.D., University of Texas at Austin
- KENT**, Thomas W., Ph.D., Associate Professor of Management and Entrepreneurship (1999) B.A., Lebanon Valley College; M.A., St. Mary's University; M.S., Ph.D., Case Western Reserve University
- KEYES**, Denis W., Ph.D., Professor of Teacher Education (1991) B.S., Ohio University; M.Ed., M.S., Ed.S., Miami University; Ph.D., University of New Mexico
- KHOMA**, Natalia, D.M.A., Associate Professor of Music (2005) B.M., Lviv Central Music School; M.M., D.M.A., Moscow Conservatory of Music
- KINARD**, William Frank, Ph.D., Professor of Chemistry and Biochemistry (1972) B.S., Duke University; Ph.D., University of South Carolina
- KNEE**, Stuart E., Ph.D., Professor of History (1986) B.A., M.A., Queens College, City University of New York; Ph.D., New York University
- KOERNER**, Morgan M., Ph.D., Assistant Professor of German and Slavic Studies (2007) B.A., University of Alabama; M.A., Ph.D., University of Washington
- KOLAK**, Amy M., Ph.D., Assistant Professor of Psychology (2009) B.A., University of Michigan; M.S., Ph.D., Pennsylvania State University
- KOPFMAN**, Jenifer, Ph.D., Associate Professor of Communication (2007) B.A., Miami University of Ohio; M.A., Ph.D., Michigan State University
- KOPROWSKI**, William R., Ph.D., Professor of Accounting and Legal Studies (2005) B.S., Ph.D., Temple University; M.S., University of Southern California; J.D., University of South Carolina
- KOREY**, Christopher A., Ph.D., Associate Professor of Biology (2003) B.S., Notre Dame; Ph.D., Harvard University
- KOWAL**, David Martin, Ph.D., Professor of Art History (1979) B.A., Brandeis University; M.A., Ph.D., University of Michigan
- KRANTZMAN**, Kristin D., Ph.D., Professor of Chemistry and Biochemistry (1992) A.B., Occidental College; Ph.D., University of California, Los Angeles
- KRASNOFF**, Larry D., Ph.D., Professor of Philosophy (1998) B.A., Williams College; Ph.D., Johns Hopkins University
- KUNKLE**, Thomas, Ph.D., Associate Professor of Mathematics (1991) B.A., Kent State University; M.A., Ph.D., University of Wisconsin
- KUTHIRUMMAL**, Narayanan, Ph.D., Associate Professor of Chemistry and Biochemistry (2004) B.Sc., Calicut University; M.Sc., Cochin University; Ph.D., Banaras Hindu University
- LACROIX**, Celeste, Ph.D., Associate Professor of Communication (1999) B.S., Emerson College; M.A., Eastern Michigan University; Ph.D., Ohio University
- LAFORTUNE**, Stéphane, Ph.D., Associate Professor of Mathematics (2004) B.S., Université de Sherbrooke; M.S., Université de Montréal; Ph.D., Université de Montréal and Université Paris VII

- LAING**, Brent, M.F.A., Senior Instructor of Theatre (2000) B.A., College of Charleston; M.F.A., University of North Carolina at Greensboro
- LAMB**, Christopher J., Ph.D., Professor of Communication (1997) B.S., M.S., University of Tennessee; Ph.D., Bowling Green State University
- LANAHAN**, Brian, Ed.D., Assistant Professor of Teacher Education (2006) B.S., Troy State University; M.Ed., University of California, Santa Barbara; Ed.D., University of Florida
- LANDIS**, Mark, M.F.A., Professor of Theatre (2000) B.A., M.F.A., Western Illinois University
- LANGVILLE**, Amy N., Ph.D., Associate Professor of Mathematics (2005) B.S., Mount Saint Mary's College; M.S., Ph.D., North Carolina State University
- LARSEN**, Michael L., Ph.D., Assistant Professor of Physics and Astronomy (2010) B.S., Ph.D., Michigan Technological University
- LAVRICH**, Richard J., Ph.D., Assistant Professor of Chemistry (2007) B.S., The Ohio State University; Ph.D., Kent State University
- LAZZARO**, Mark D., Ph.D., Associate Professor of Biology (1999) A.B., Cornell University; M.S., Ph.D., University of California, Riverside
- LECLERC**, Anthony P., Ph.D., Associate Professor of Computer Science (1993) B.S., Cameron University; M.S., Ph.D., The Ohio State University
- LEE**, Michael, Ph.D., Assistant Professor of Communication (2008) B.A., M.A., University of Georgia, Ph.D., University of Minnesota
- LEE**, Nam-Jin, M.A., Assistant Professor of Communication (2010) B.A., Seoul National University, Korea; M.A., Ph.D. (expected) University of Wisconsin
- LEMESURIER**, Brenton J., Ph.D., Associate Professor of Mathematics (1998) B.S., Australian National University; M.S., Ph.D., New York University
- LESSANE**, Patricia W., Ph.D., Director, Avery Research Center for African American History and Culture (2010) B.A., Fisk University; M.A., Dartmouth College; Ph.D., University of Illinois, Chicago
- LESSES**, Glenn, Ph.D., Professor of Philosophy (1986) B.A., University of Rochester; M.A., Ph.D., Indiana University
- LEVINE**, Norman S., Ph.D., Associate Professor of Geology and Environmental Geosciences (2003) B.S., George Washington University; M.A., Indiana State University; Ph.D., Purdue University
- LEWIS**, Andrew H., Ph.D., Associate Professor of Health and Human Performance (1983) B.S., Albany State College; M.S., University of Tennessee; Ph.D., The Ohio State University
- LEWIS**, Simon K., Ph.D., Professor of English (1996) B.A., M.A., Worcester College; Ph.D., University of Florida
- LI**, Jiexiang, Ph.D., Assistant Professor of Mathematics (2006) B.S., B.A., Tianjin University; Ph.D., Indiana University
- LINARES-OCANTO**, Luis, Ph.D., Associate Professor of Hispanic Studies (1995) B.S., University of Havana, DePaul University; M.A., Ph.D., University of Iowa
- LINDNER**, B. Lee, Ph.D., Associate Professor of Physics and Astronomy (1994) B.S., University of Washington; Ph.D., University of Colorado
- LINDSTROM**, William A., Ph.D., Associate Professor of Physics and Astronomy and Associate Dean of the School of Sciences and Mathematics (1973) B.S., Auburn University; M.S., Ph.D., Clemson University
- LITVIN**, Stephen W., D.B.A., Professor of Hospitality and Tourism Management (2001) B.S. Acct., Bentley College; M.B.A., Babson College; D.B.A., University of South Australia
- LIU**, Guoli, Ph.D., Professor of Political Science (1993) B.A., M.A., Peking University; Ph.D., State University of New York at Buffalo
- LIU**, Hao-Chen, M.A., Assistant Professor of Finance (2007) B.S., M.A., Ph.D., University of Alabama
- Lloyd**, Mary Elizabeth, Ph.D., Assistant Professor of Teacher Education (2010) B.A., University of Virginia; M.A.T., University of Virginia; Ph.D., University of Virginia
- LONG**, Mark, Ph.D., Associate Professor of Political Science (2002) B.A., M.A., University College, Cork, Ireland; Ph.D., University of South Carolina
- LOTT**, Bret, M.F.A., Professor of English (1986) B.A., California State University, Long Beach; M.F.A., University of Massachusetts
- LOWENTHAL**, Cynthia J., Ph.D., Professor of English and Dean of the School of Humanities and Social Sciences (2006) B.A., M.A., University of Arkansas; Ph.D., Brandeis University
- LYNDRUP**, Allen W., M.F.A., Professor of Theatre (1991) B.A., Wartburg College; M.F.A., University of Georgia
- MACK**, Rhonda Walker, Ph.D., Professor of Marketing and Supply Chain Management (1994) B.A., M.B.A., Winthrop College; Ph.D., University of Georgia
- MAGGIARI**, Massimo, Ph.D., Professor of French, Francophone and Italian Studies (1993) Laurea, Magistero di Genova; M.A., University of Washington; Ph.D., University of North Carolina at Chapel Hill
- MANARIS**, Bill, Ph.D., Professor of Computer Science (2000) B.S., University of New Orleans; M.S., Ph.D., University of Southwestern Louisiana
- MANNING**, Maria M., Ph.D., Assistant Professor of Teacher Education (2008) B.A., Angelo State University; M.Ed., Ph.D., University of North Texas
- MARCELL**, Michael M., Ph.D., Professor of Psychology (1978) B.A., Centenary College; M.A., Ph.D., Vanderbilt University
- MARTÍNEZ-GIBSON**, Elizabeth A., Ph.D., Professor of Hispanic Studies and Linguistics (1992) B.A., Allentown College of Saint Francis de Sales; M.A., Ph.D., State University of New York at Albany
- MAY**, Cynthia P., Ph.D., Professor of Psychology (1998) B.A., Furman University; M.A., Ph.D., Duke University
- MAY**, Kim O., Ph.D., Professor of Psychology (1992) B.S., M.S., Ph.D., University of Oklahoma
- MAZZONE**, Marian, Ph.D., Associate Professor of Art History (1998) B.A., Miami University; M.A., University of Arizona; Ph.D., The Ohio State University
- MCADAMS**, Erin S., Ph.D., Assistant Professor of Political Science (2010) B.A., Allegheny College; M.A., Ph.D., The Ohio State University
- MCBROOM**, Deanna, M.M., Professor of Music (1995) B.S., University of Wisconsin; Master of Music in Vocal Performance, University of Louisville
- MCCABE**, Janine M., M.F.A., Assistant Professor of Theatre (2007) B.A., College of Charleston; M.F.A., University of Virginia
- MCCANDLESS**, Amy Thompson, Ph.D., Professor of History and Dean of the Graduate School (1983) A.B., Sweet Briar College; M.B.A., University of South Carolina M.A., Ph.D., University of Wisconsin
- MCCAULEY**, Renee A., Ph.D., Professor of Computer Science (2000) B.S., M.Ed., Louisiana State University; M.S., Ph.D., University of Southwestern Louisiana

- MCDANIEL**, June, Ph.D., Professor of Religious Studies (1988) B.A., State University of New York at Albany; M.T.S., Emory University; Ph.D., The University of Chicago
- MCCELROY**, Eric J., Ph.D. Assistant Professor of Biology (2008) B.S., Northern Ohio University; Ph.D., Ohio University
- MCGEE**, Brian R., Ph.D., Professor of Communication (2004) B.S., M.S., Southern Illinois University; Ph.D., The Ohio State University
- MCGEE**, Deborah Socha, Ph.D., Associate Professor of Communication (2005) B.A., Northeast Louisiana University; M.S., Southern Illinois University; Ph.D., The Ohio State University
- MCKENNA**, James, M.Ed., Visiting Assistant Professor of Teacher Education (2004) B.S., Central Connecticut State University; M.Ed., University of Hartford
- MCLAINE**, Gretchen S., M.A., Assistant Professor of Theatre (2007) B.A., Winthrop University; M.A., American University; Ph.D. (expected), Marywood University
- MCLEOD**, J. Brumby, Ph.D., Assistant Professor of Hospitality and Tourism Management (2010) B.S., University of Georgia; M.B.A., University of Montana; Ph.D., University of Nevada, Las Vegas
- MCNERNEY**, Todd J., M.F.A., Associate Professor of Theatre (1999) B.A., St. John's University; M.F.A., University of Iowa
- MCTEAR**, Martha, M.L.S., Librarian I (2010) B.A., Hobart and William Smith Colleges; M.L.S., University of South Carolina
- MECKLENBURG-FAENGER**, Amy, Ph.D., Assistant Professor of English (2007) B.A., Truman State University; M.A., University of Missouri-Kansas City; Ph.D., The Ohio State University
- MENDELSON**, Adam, Ph.D., Assistant Professor of Jewish Studies (2008) M.A., University of Cape Town; Ph.D., Brandeis University
- MESSAL**, Carrie Blair, Ph.D., Assistant Professor of Management and Entrepreneurship (2007) B.A., Georgetown College; M.A., East Carolina University; Ph.D., University of Tennessee
- MEYER-BERNSTEIN**, Elizabeth, Ph.D., Associate Professor of Biology (2003) B.A., Smith College; Ph.D., University of New York
- MIGNONE**, Robert J., Ph.D., Professor of Mathematics (1981) B.A., Temple University; Ph.D., Pennsylvania State University
- MILLER**, Deborah A., Ph.D., Professor of Health and Human Performance (1982) B.S., M.S., University of Illinois; Ph.D., University of Oregon
- MILLIKEN**, Garrett W., Ph.D., Associate Professor of Psychology (1997) B.A., Ohio University; M.S., Ph.D., The University of Memphis
- MINER**, Jess L., Ph.D., Assistant Professor of Classics (2006) B.A., Smith College; Ph.D., University of Texas
- MITCHENER**, W. Garrett, Ph.D., Assistant Professor of Mathematics (2006) B.S., B.A., Duke University; Ph.D., Princeton University
- MOORE**, Christine L., M.B.A., Senior Instructor of Computer Science (1996) B.S., Voorhees College; M.B.A., Pace University
- MORAN**, Claudia, M.A., Instructor of Hispanic Studies (2006) B.A., Instituto Nacional Superior en Lenguas Vivas, Buenos Aires, Argentina; M.A., College of Charleston
- MOREIRA**, Maria Luci De Biagi, Ph.D., Associate Professor of Hispanic Studies (2000) B.A., Universidade Estadual de Maringa, Brazil; M.A., Universidade Federal de Pernambuco, Brazil; Ph.D., University of Illinois
- MORGAN**, J. Michael, Ph.D., Professor of Economics (1986) B.A., Georgia Southern College; M.A., Old Dominion University; Ph.D., University of South Carolina
- MORRIS**, Valerie B., M.A., Professor of Theatre and Dean of the School of the Arts (1998) B.A., American University; M.A., University of Michigan
- MORRISON**, Shawn E., Ph.D., Associate Professor of French, Francophone and Italian Studies and Associate Dean of the School of Languages, Cultures and World Affairs (1999) B.S., Indiana University of Pennsylvania; M.A., Pennsylvania State University; Ph.D., Michigan State University
- MORRISON**, Susan J., Ph.D., Assistant Professor of Biology and Associate Provost for Operations and Administration (1979) B.S., M.S., Colorado State University; Ph.D., Florida State University
- MOSCOWITZ**, David, Ph.D., Assistant Professor of Communication (2009) B.S., Ph.D., Indiana University; M.S., Miami University
- MOSCOWITZ**, Leigh, Ph.D., Assistant Professor of Communication (2008) B.A., M.A., Ph.D., Indiana University
- MUELLER**, James D., Ph.D., Associate Professor of Management and Entrepreneurship (1999) B.A., Grove City College; M.B.A., University of North Carolina at Wilmington; Ph.D., De Montfort University, England
- MUELLER**, Rene, Ph.D., Professor of Marketing and Supply Chain Management (1996) B.A., M.B.A., University of North Carolina at Wilmington; Ph.D., De Montfort University, England
- MULDROW**, Ralph, M.S., Associate Professor of Historic Preservation and Community Planning (1996) B.A., B.S., University of Virginia; M.Arch., M.S., University of Pennsylvania
- MURREN**, Courtney J., Assistant Professor of Biology (2004) A.B., Mount Holyoke College; Ph.D., University of Connecticut
- NABORS**, Martha L., Ph.D., Professor of Teacher Education (1989) B.S., M.S., University of Akron; Ph.D., Pennsylvania State University
- NAYLOR**, Gavin, Professor of Biology (2010) B.Sc., Durham University, England; Ph.D. University of Maryland
- ndunda**, mutindi, Ph.D., Associate Professor of Teacher Education (1997) B.Ed., University of Nairobi; M.Ed., Queen's University; Ph.D., University of British Columbia
- NEFF**, James E., Ph.D., Professor of Physics and Astronomy (1997) B.S., University of Iowa; M.S., Ph.D., University of Colorado
- NENNO**, Nancy P., Ph.D., Associate Professor of German and Slavic Studies (1997) B.A., Brown University; M.A., Ph.D., University of California, Berkeley
- Nesbit**, Todd M., Ph.D., Assistant Professor of Economics (2010) B.S., Capital University; Ph.D., West Virginia University
- NEUFELD**, Jonathan A., Ph.D., Assistant Professor of Philosophy (2011) B.A., University of Minnesota; M.A., King's College; Ph.D., Columbia University
- NEWELL**, John H., Jr., Ph.D., Professor of History and Dean of the Honors College (1978) B.A., University of Georgia; M.A., Ph.D., Duke University
- NEWHARD**, James M.L., Ph.D., Associate Professor of Classics (2003) B.A., University of Missouri; M.A., Ph.D., University of Cincinnati
- NGUYEN**, Anh-Dung (Yum), Ph.D., Assistant Professor of Education, Health and Human Performance (2009) B.S. Indiana University of Pennsylvania; M.S.Ed., Old Dominion University, Ph.D., University of North Carolina, Greensboro

**NICKAS**, Phyllis, M.A.T., Master Teacher, Miles Early Childhood Development Center (1992) B.S., College of Charleston; M.A.T., University of Charleston, S.C.

**NUNAN**, Richard, Ph.D., Professor of Philosophy (1984) B.A., Vassar College; M.A., Ph.D., University of North Carolina at Chapel Hill

**NUSBAUM**, Robert L., Ph.D., Professor of Geology and Environmental Geosciences (1984) B.A., M.S., University of Kansas; Ph.D., University of Missouri at Rolla

**OHLANDT**, Pamela Seabrook, B.S., Master Teacher, Miles Early Childhood Development Center (1993) B.S., College of Charleston

**OLEJNICZAK**, William, Ph.D., Associate Professor of History (1987) B.A., Bradley University; M.A., Ph.D., Duke University

**OPRISAN**, Ana, Ph.D., Assistant Professor of Physics and Astronomy (2007) B.S., University of Iasi, Romania; M.S., Ph.D., University of New Orleans

**OPRISAN**, Sorinel A., Ph.D., Associate Professor of Physics and Astronomy (2005) B.Sc., Ph.D., University of Iasi, Romania; M.Sc., University of New Orleans

**OVERBY**, Jason S., Ph.D., Associate Professor of Chemistry and Biochemistry (1999) B.S., University of Tennessee at Martin; M.S., Ph.D., Vanderbilt University

**OWENS**, David W., Ph.D., Professor of Biology and Associate Dean of the Graduate School (1999) B.A., William Jewell College; Ph.D., University of Arizona

**OWENS**, Sarah E., Ph.D., Associate Professor of Hispanic Studies (2000) B.A., University of New Hampshire; M.A., New York University; Ph.D., University of Arizona

**PAN**, Bing, Ph.D., Assistant Professor of Hospitality and Tourism Management (2005) B. Econ., M.A., Nanjing University; Ph.D., University of Illinois

**PARISI**, David P., Ph.D., Assistant Professor of Communication (2009) B.A., M.A., University of Albany; Ph.D., New York University

**PARK**, Jin Hong, Ph.D., Assistant Professor of Mathematics (2007) B.A., M.S., Hanyang University, Seoul, Korea; Ph.D., University of Georgia

**PARKER**, Herb, M.F.A., Professor of Studio Art (1991) B.F.A., M.F.A., East Carolina University

**PARRY**, Evan, M.F.A., Associate Professor of Theatre (1993) B.A., State University of New York; M.F.A., Florida State University

**PEACOCK**, Clifton, M.F.A., Professor of Studio Art (1993) B.F.A., M.F.A., Boston University.

**PEEPLES**, Scott, Ph.D., Professor of English (1995) B.A., Georgetown University; M.A., College of William and Mary; Ph.D., Louisiana State University

**PEHL**, Malte, M.S., Assistant Professor of International and Intercultural Studies (2009) University of Passau, Germany, M.S., University of London; Ph.D. (expected), University of Heidelberg, Germany

**PENNY**, Laura R., Ph.D., Professor of Physics and Astronomy (1997) B.S., Trinity University; M.S., Ph.D., Georgia State University

**PERKINS**, Robert F., Ed.D., Associate Professor of Teacher Education (1989) B.A., University of Massachusetts; M.A., Ed.D., West Virginia University

**PERLMUTTER**, Martin, Ph.D., Professor of Philosophy (1979) B.A., City College of New York; M.A., Ph.D., University of Illinois

**PETERS**, John S., Ph.D., Senior Instructor of Biology (1994) B.S., University of Illinois; M.S., College of Charleston; Ph.D., University of Northern Colorado

**PHILLIPS**, C. Michael, M.L.S., Librarian III and Director of Summer Sessions (1990) B.S., College of Charleston; M.M., University of Missouri-Kansas City; M.L.S., University of South Carolina

**PHILLIPS**, Darryl A., Ph.D., Associate Professor of Classics (1998) A.B., Stanford University; Ph.D., Duke University

**PHILLIPS**, Michael, M.A., Professor of Studio Art (1984) B.A., Ohio Wesleyan University; M.A., New York University

**PHILLIPS**, Michele L., Ph.D., Assistant Professor of Teacher Education (2008) B.A., M.A., Ph.D., University of Florida

**PICCIONE**, Peter A., Ph.D., Associate Professor of History (1998) B.A., State University of New York; M.A., Ph.D., The University of Chicago

**PIEPMEIER**, Alison M., Ph.D., Associate Professor of English (2005) B.A., Tennessee Technological University; M.A., Ph.D., Vanderbilt University

**PITTS**, Robert E., Ph.D., Professor of Marketing and Supply Chain Management (2004) B.B.A., M.B.I.S., Georgia State University; Ph.D., University of South Carolina

**PLANTE**, Craig J., Ph.D., Professor of Biology (1994) B.S., M.S., Ph.D., University of Washington

**PODOLSKY**, Robert David, Ph.D., Assistant Professor of Biology (2005) A.B., Princeton University; M.S., University of Florida; Ph.D., University of Washington

**POOLE**, W. Scott, Ph.D., Associate Professor of History (2002) B.A., Charleston Southern University; M.T.S., Harvard University; Ph.D., University of Mississippi

**POTHERING**, George J., Ph.D., Professor of Computer Science (1978) B.S., Allentown College; M.S., University of South Carolina; M.S., Ph.D., University of Notre Dame

**POWELL**, Philip, M.A., Librarian II (1984) B.A., M.S., Illinois State University; M.A., Northern Illinois University

**POWERS**, Bernard E., Jr., Ph.D., Professor of History (1992) B.A., Gustavus Adolphus College; M.A., Ph.D., Northwestern University

**PREYER**, Norris W., Ph.D., Associate Professor of Physics and Astronomy (1998) B.S., Ph.D., Massachusetts Institute of Technology

**PRINGLE**, Peyre, M.D., Visiting Senior Instructor of Biology (1995) B.A., Wichita State University; M.D., Medical University of South Carolina

**PRITCHARD**, Seth Greeley, Ph.D., Associate Professor of Biology (2004) B.A., Berea College; Ph.D., Auburn University

**PROFIT**, Steven K., M.L.I.S. Librarian II (2003) B.A., Florida State University; M.L.I.S., University of South Carolina

**PROVOST**, Mary C., Ed.D., Assistant Professor of Teacher Education (2005) B.A.E., M.Ed., Ed.D., Florida Atlantic University

**PRZEWORSKI**, Andrew, Ph.D., Assistant Professor of Mathematics (2008) B.S., Massachusetts Institute of Technology; M.A., Ph.D., The University of Chicago

**PYLES**, Mark K., Ph.D., Associate Professor of Finance (2005) B.B.A., Eastern Kentucky University; M.S., Ph.D., University of Kentucky

**QIRKO**, Hector N., Ph.D., Assistant Professor of Geology (2010) B.A., M.A., Ph.D., University of Tennessee

**QUESADA**, Gioconda, Ph.D., Associate Professor of Marketing and Supply Chain Management (2003) B.S., Costa Rica Institute of Technology; M.S., University of Toledo; Ph.D., University of Northern Colorado

**QUINN**, Eileen Moore, Ph.D., Associate Professor of Anthropology (2001) B.A., Fitchburg State College; M.L.A., Harvard University; M.A., Ph.D., Brandeis University

**RAGUSA**, Jordan Michael, Ph.D., Assistant Professor of Political Science (2011) B.S., Bowling Green State University; M.A., University of Florida; Ph.D. University of Florida

**RASHFORD**, John H., Ph.D., Professor of Anthropology (1983) B.A., Friends World College; M.A., Ph.D., City University of New York

**REARDON**, Michael E., Ph.D., Assistant Professor of Communication (2003) B.A., John Carroll University; M.A., Cleveland State University; Ph.D., Purdue University

**REGNIER**, Marc, M.M., Associate Professor of Music (1996) B.M., Peabody Conservatory of Johns Hopkins University; M.M., San Francisco State University

**RHODES**, Elizabeth K., M.S., Senior Instructor of Geology and Environmental Geosciences (2000) B.S., Dickinson College; M.S., University of Charleston, S.C.

**RICHARDSON**, Terry, Ed.S., Senior Instructor of Physics and Astronomy (1993) B.S., University of South Carolina; M.S., Vanderbilt University; Ed.S., George Peabody College for Teachers

**RIGGS-GELASCO**, Pamela, Ph.D., Associate Professor of Chemistry and Biochemistry (1998) B.A., Albion College; Ph.D., University of Michigan

**RIGNEY**, Ernest G., Jr., Ph.D., Associate Professor of Sociology (1980) B.A., Baptist College at Charleston; M.A., University of South Carolina; Ph.D., University of Illinois

**ROBERTSON**, Sarah M.C., Ph.D., Assistant Professor of Psychology (2010) B.S., Furman University; M.A., University of Colorado, Colorado Springs; Ph.D., University of Tennessee

**RODRÍGUEZ-SABATER**, Silvia, Ph.D., Associate Professor of Hispanic Studies (2000) B.A., Universitat Autònoma de Barcelona, Spain; M.A., University of Northern Iowa; Ph.D., Indiana University

**ROGERS**, Amy L., Ph.D., Senior Instructor of Chemistry and Biochemistry (2002) B.S., Furman University; Ph.D., University of South Carolina

**ROGERS**, Kathleen Beres, Ph.D., Assistant Professor of English, (2008) B.A., Smith College; M.A., Boston College; Ph.D., University of North Carolina at Chapel Hill

**ROSENBERG**, Steve, Prix de Virtuosite, Professor of Music (1986) Prix de Virtuosite, Schola Cantorum, Paris

**ROSENGARTEN**, Dale, Ph.D., Librarian III (1997) B.A., Radcliffe College; M.A., Ph.D., Harvard University

**ROSKO**, Emily, Ph.D., Assistant Professor of English (2010) B.A., Purdue University; Ph.D. University of Missouri

**ROSS**, Lisa Thomson., Ph.D., Professor of Psychology (1999) B.A., Hope College; M.A., Wake Forest University; Ph.D., Wayne State University

**ROSS**, Thomas P., Ph.D., Professor of Psychology (1997) B.S., Michigan State University; M.A., Ph.D., Wayne State University

**ROZZI**, Susan L., Ph.D., Associate Professor of Health and Human Performance (1997) B.S., State University of New York, College at Cortland; M.Ed., University of Virginia; Ph.D., University of Pittsburgh

**RUDD**, Howard F., Jr., Ph.D., Professor of Management and Entrepreneurship (1984) B.S., M.B.A., Syracuse University; Ph.D., Texas Tech University

**RUNYON**, Cassandra J., Ph.D., Associate Professor of Geology (1994) B.S., State University of New York at Fredonia; M.S., Southern Illinois University at Carbondale; Ph.D., University of Hawaii at Manoa

**RUSCIO**, Michael G., Ph.D., Associate Professor of Psychology (2006) B.A., University of Richmond; Ph.D., Cornell University

**RUSSELL**, Robert D., Jr., Ph.D., Professor of Art History; Director, Program in Historic Preservation and Community Planning (1994) B.A., Southern Illinois University; M.A., Ph.D., Princeton University

**RUSSELL**, William M., Ph.D., Assistant Professor in English (2009) B.A. Columbia University; M.A., University of North Carolina at Chapel Hill

**RUTH-MCSWAIN**, Amanda M., Ph.D., Assistant Professor of Communication (2005) B.S., Clemson University; M.S., Ph.D., University of Florida

**RUTTER**, Matthew T., Ph.D., Assistant Professor of Biology (2007) B.A., Harvard University; Ph.D., Duke University

**SAMUEL**, Lisa, Ph.D., Assistant Professor of International and Intercultural Studies (2009) L.L.B., University of the West Indies; L.L.M. University of Florida; Ph.D. Florida International University

**SANCHO**, Gorka, Ph.D., Associate Professor of Biology (2002) B.S., Autònoma University of Madrid; Ph.D., Woods Hole Oceanographic Institution/Massachusetts Institute of Technology

**SANDERS**, Brenda S., M.S., Senior Instructor of Sociology (1996) A.L.A., Allan Hancock College; B.A., M.S., Baylor University

**SARR**, Assan, M.A., Assistant Professor of History (2010) B.A., University of Gambia; M.A., The Ohio State University; Ph.D. (expected), Michigan State University

**SARVATE**, Dinesh G., Ph.D., Professor of Mathematics (1988) B.A., M.A., Indore University; M.Phil., Kurukshetra University; Ph.D., Sydney University

**SAUTTER**, Leslie R., Ph.D., Associate Professor of Geology and Environmental Geosciences (1994) B.S., Tufts University; M.S., Ph.D., University of South Carolina

**SCHEETT**, Timothy P., Ph.D., Assistant Professor of Health and Human Performance (2006) B.S., North Dakota State University; M.S., Western Illinois University; Ph.D., University of Connecticut

**SCHMITT**, Gregory C., M.A., Assistant Professor of Communication (1984) B.A., Central Washington State College; M.A., University of Missouri

**SCHOLTENS**, Brian, Ph.D., Professor of Biology (1992) B.A., Central College; M.S., Ph.D., University of Michigan

**SCHONBEIN**, William W., Ph.D., Assistant Professor of Philosophy (2005) B.A., University of Wisconsin; M.A., Ph.D., Washington University in St. Louis

**SCLIPPA**, Norbert, Ph.D., Professor of French, Francophone and Italian Studies (1985) Licence es Lettres, La Sorbonne, Paris; M.A., Hunter College; Ph.D., City University of New York

**SCOTT-COPSES**, Marguerite, Ph.D., Instructor of English (2007) B.A., Wake Forest University; M.A., Ph.D., Florida State University

**SEAMAN**, Myra, Ph.D., Associate Professor of English (2000) B.A., State University of New York; M.A., Ph.D., Claremont Graduate University

**SEAY**, Jared A., M.L.S., Librarian II (1992) B.A., Illinois State University; M.L.S., University of South Carolina

**SESSOMS**, Eugene, M.S., Director of Campus Recreational Services (1993) B.S., College of Charleston, M.S., University of Maryland

**SHANES**, Joshua, Ph.D., Assistant Professor of Jewish Studies (2006) B.A. University of Illinois ; M.A., Ph.D., University of Wisconsin, Madison

**SHANKLIN-PETERSON**, Scott, B.A., Senior Fellow in Arts Management, Director of the Arts Management Program (2002) B.A., Columbia College

**SHAO**, Alan T., Ph.D., Professor of Marketing and Supply Chain Management and Dean of the School of Business (2009) B.S., M.B.A., Old Dominion University; Ph.D. University of Alabama-Tuscaloosa

**SHARP**, Carwyn P. M., Ph.D., Assistant Professor of Education, Health and Human Performance (2010) B.S., University of Queensland, Australia; M.S., Ball State University; Ph.D., University of Texas Medical Branch

**SHAVER**, Kelly G., Ph.D., Professor of Management and Entrepreneurship (2005) B.S., M.S., University of Washington; Ph.D., Duke University

**SHEDLOCK**, Andrew M., Ph.D., Assistant Professor of Biology (2010) B.S., Cornell University; M.S., Ph.D., University of Washington

**SHIELDS**, Sandra, Ph.D., Professor of Mathematics (1992) B.A., St. Olaf College; Ph.D., University of North Carolina at Chapel Hill

**SIEGLER**, Elijah, Ph.D., Associate Professor of Religious Studies (2004) B.A., Harvard University; M.A., Ph.D., University of California, Santa Barbara

**SIGNORI**, Lisa F., Ph.D., Assistant Professor of French, Francophone and Italian Studies (2007) B.A., Macalester College; M.A., Ph.D., University of Missouri-Columbia

**SIMONIAN**, Susan J., Ph.D., Professor of Psychology (1993) B.A., University of California, Irvine; M.A., California State University, Long Beach; Ph.D., The Ohio State University

**SIOW**, Lee-Chin, M.M., Associate Professor of Music (2001) B.M., Curtis Institute of Music; M.M., Mannes College of Music

**SKINNER**, Emily Neil, Ed.D., Assistant Professor of Teacher Education (2005) A.B.Ed., University of Michigan; M.Ed., Oakland University; Ed.D., Columbia University

**SKINNER**, Michael E., Ph.D., Professor of Teacher Education (1986) B.S., Bowling Green State University; M.A., Ph.D., The Ohio State University

**SLATER**, Sandra Ph.D., Assistant Professor of History (2009) B.A. Lincoln Memorial University; M.A., Ph.D. University of Kentucky

**SLOAN**, Mark, M.F.A., Associate Professor of Arts Management and Director of William Halsey Gallery (1994) B.A., University of Richmond; M.F.A., Virginia Commonwealth University

**SMAIL**, Karen, Ph.D. Associate Professor of Health and Human Performance (2003) B.A., University of Waterloo; M.Sc., Canisius College; Ph.D. University of Georgia

**SMIRNOV**, Oleg N., Ph.D., Associate Professor of Mathematics (2000) M.S., Novosibirsk State University, Russia; Ph.D., Russian Academy of Sciences, Novosibirsk

**SMITH**, Alison T., Ph.D., Senior Instructor of French, Francophone and Italian Studies (2003) B.A., Wake Forest University; M.A., Ph.D., University of North Carolina at Chapel Hill

**SMITH**, Kay H., Ph.D., Professor of English and Associate Vice President for the Academic Experience (2005) B.A., M.A., University of Alabama; Ph.D., Emory University

**SMITH**, Wayne W., Ph.D., Assistant Professor of Hospitality and Tourism Management (2006) B.R.L.S., M.A., University of Waterloo; Ph.D., Wilfrid Laurier University

**SNYDER**, Marcia S., M.S., Senior Instructor of Economics (1999) B.S., College of Charleston; M.S., University of London

**SOBIESUO**, Andrew, Ph.D., Professor of Hispanic Studies and Assistant Provost for International Education (1990) B.A., University of Ghana; D.L.C.E., Universidad Complutense de Madrid; M.A., Ph.D., The Ohio State University

**SOMMER-KRESSE**, Sue A., Ph.D., Associate Professor of Education and Senior Vice President for Strategic Planning (1979) B.S., M.A., University of Minnesota; Ph.D., University of Wisconsin

**SOTKA**, Erik E., Ph.D., Associate Professor of Biology (2004) B.S., University of Washington, Seattle; Ph.D., University of North Carolina at Chapel Hill

**SPICER**, C. Vincent, Ph.D., Associate Professor of Psychology (1999) B.A., M.A., North Carolina Central University; Ph.D., University of Kentucky

**SPRINGER**, Bonnie C. McCarty, Ph.D., Associate Professor of Teacher Education (2001) B.M., University of the Pacific; M.Ed., Ph.D., University of Georgia

**STACKEL**, Martha, M.L.S., Librarian II (1990) B.A., Wittenberg University; M.L.S., Emory University

**STALVEY**, RoxAnn H., M.S., Senior Instructor of Computer Science (2001) B.A., Wofford College; M.S., University of South Carolina

**STARR**, Christopher W., Ph.D., Associate Professor of Computer Science (1987) B.S., College of Charleston; M.S., Ph.D., Medical University of South Carolina

**STEIN**, Ann, M.A., Senior Instructor of Sociology (1990) B.A., Emory University; M.A., University of Virginia

**STERN**, Michael J., Ph.D., Assistant Professor of Sociology (2009) B.S. James Madison University; M.S., Virginia Commonwealth University; Ph.D., Washington State University

**STEVENS**, Blake C., Ph.D., Assistant Professor of Music (2009) B.Mus., University of Utah; M.A., Ph.D., Stanford University

**STEWART**, Kendra, Ph.D., Associate Professor of Political Science, (2008) B.A., University of Central Florida, M.A., Ph.D.; University of South Carolina,

**STONE**, Kirk, Ph.D., Associate Professor of Communication (1992) B.A., M.A., University of Kentucky; Ph.D., American University

**STRAND**, Allan Edgar, Ph.D., Professor of Biology (1998) B.S., University of the South; M.S., University of Georgia; Ph.D., New Mexico State University

**STRAUCH**, Katina Partemos Walser, M.S., Assistant Dean for Technical Services and Collection Development (1979) A.B., M.S.L.S., University of North Carolina at Chapel Hill

**STRAUMAN**, Elena C., Ph.D., Associate Professor of Communication (2004) B.A., LaSalle University; M.A., Ph.D., University of South Florida

**STYLES**, Alan, Ph.D., Assistant Professor of Accounting (2002) B.A., University of Brighton, United Kingdom; M.S., Ph.D., University of North Texas

**SWANSON**, Julie Dingle., Ed.D., Professor of Teacher Education (1998) B.S., College of Charleston; M.Ed., University of Charleston S.C.; Ed.D., University of South Carolina

**SWICKERT-HITTNER**, Rhonda J., Ph.D., Professor of Psychology (1996) B.S., Emporia State University; M.A., California State University-Long Beach; Ph.D., University of Oklahoma

**TAYLOR**, Robert J., D.M.A., Associate Professor of Music (1998) B.M., University of Central Arkansas; M.M., Sam Houston State University; D.M.A., Louisiana State University

**TEKLU**, Alem A., Ph.D., Associate Professor of Physics and Astronomy (2003) B.Sc., University of Asmara; M.S., Ph.D., Louisiana State University

**TEMPLETON**, David, M.M., Assistant Professor of Music (2008) B.M., Stephen F. Austin State University; M.M., The Ohio State University

**THOM**, Katherine Johnston, Ph.D., Professor of Mathematics (1984) B.S., M.S., Emory University; Ph.D., Vanderbilt University

**THOMAS**, Catherine, Ph.D., Associate Professor of English (2005) B.A., The University of Maryland at College Park; M.A., Ph.D., Pennsylvania State University

**THOMAS**, Eric L., Ph.D., Assistant Professor of Religious Studies (2004) B.S., Morehouse College; M.S., Yale University; M.A., University of Florida; Ph.D. Princeton University

**TIERNEY**, Heather L. R., Ph.D., Assistant Professor of Economics (2005) B.S., University of California, Los Angeles; M.A., Ph.D., University of California, Riverside

**TORIS**, Carol C. M., Ph.D., Associate Professor of Psychology (1981) B.A., Rutgers University; M.A., Ph.D., University of Virginia

**TREAHY**, Diane L., Ph.D., Assistant Professor of Teacher Education (2006) B.S., Indiana University; M.A., University of California, San Diego; Ph.D., Indiana University

**TRIBLEHORN**, Jeffrey D., Ph.D., Assistant Professor of Biology (2009) B.A., Rutgers University; M.S., Ph.D., University of Maryland, College Park

**TRINKLE**, Brad S., Ph.D., Assistant Professor of Accounting and Legal Studies (2006) B.B.A., M.A.T., East Tennessee State University; Ph.D., University of Alabama

**TURNER**, Laura, M.F.A., Associate Professor of Theatre (1996) B.F.A., M.F.A., New York University

**UWAH**, Godwin O., Ph.D., Professor of French, Francophone and Italian Studies (1983) N.C.E., Alvan Ikoku College of Education, Nigeria; D.E.F., University of Dakar; C.E.F., Université de Poitiers, France; M.A., Winthrop College; Ph.D., Florida State University

**VANCE**, Jason T., Ph.D., Assistant Professor Biology (2010) B.S., University of Oregon; M.S., Ph.D., University of Nevada, Las Vegas

**VANDERVORT-COBB**, Joy, B.F.A., Associate Professor of Theatre (1995) B.F.A., University of Southern California

**VAN PARYS**, Michelle, M.F.A., Professor of Studio Art (1997) B.F.A., Corcoran School of Art; M.F.A., Virginia Commonwealth University

**VAN HORN**, Brooke, Ph.D., Assistant Professor of Chemistry and Biochemistry, (2010), B.S., Indiana University; Ph.D., Washington University in Saint Louis

**VAN SICKLE**, Meta, Ph.D., Professor of Teacher Education (1992) B.S., Michigan State University; M.Ed., Ph.D., University of South Florida

**VARALLO**, Anthony E., Ph.D., Assistant Professor of English (2005) B.A., University of Delaware; M.F.A., University of Iowa; Ph.D., University of Missouri-Columbia

**VARTANIAN**, Arthur H., Ph.D., Associate Professor of Mathematics (2006) B.Eng., M.Eng., McGill University; Ph.D., Université de Bourgogne

**VÁSQUEZ**, Félix S., Ph.D., Associate Professor of Hispanic Studies (2001) Licenciatura en Contabilidad – Universidad Particular Ricardo Palma, Lima, Peru; M.A., Winthrop University; Ph.D., University of Kentucky

**VASSILANDONAKIS**, Yiorgos, Ph.D., Assistant Professor of Music (2010) B.A., University of California, Los Angeles; M.A., Ph.D., University of California, Berkeley

**VEAL**, William R., Ph.D., Associate Professor of Teacher Education (2005) B.S., Trinity University; M.S., University of Utah; Ph.D., University of Georgia

**VERLINDEN**, Marianne J., Ph.D., Senior Instructor of Hispanic Studies (1999) B.A., Institut Lucien Cooremans, Belgium; M.A., Louisiana Technical University; M.A., Ph.D., Tulane University

**VULAVA**, Vijay M., Ph.D., Assistant Professor of Geology and Environmental Geosciences (2006) B.A., J.N. Technical University, Hyderabad, India; M.A., University of Maryland; Ph.D., Swiss Federal Institute of Technology

**WALKER**, Douglas M., Ph.D., Associate Professor of Economics, (2007) B.S., Kansas State University; Ph.D., Auburn University

**WALSH**, John Patrick, Ph.D. Assistant Professor of French, Francophone and Italian Studies (2007) B.A., M.A., Amherst College; Ph.D., Harvard University

**WANG**, Weishen, Ph.D., Assistant Professor of Economics and Finance (2011) B.S., Xi'an Jiaotong University; M.S., Xi'an Jiaotong University; Ph.D., University of Central Florida

**WARD**, James L., M.L.A., Assistant Professor of Historic Preservation and Community Planning (2005) B.A., B.L.A., M.L.A., University of Georgia

**WARD**, Patricia, Ph.D., Professor of English (1989) B.A., College of Charleston; M.A., University of South Carolina; Ph.D., University of North Carolina at Chapel Hill

**WARNICK**, Chris, Ph.D., Assistant Professor of English (2006) B.A., The Ohio State University; M.A., Ph.D., University of Pittsburgh

**WATSON**, Annette, Ph.D., Assistant Professor of Political Science (2007) B.A., College of the Atlantic; M.A., University of Alaska-Fairbanks; Ph.D., University of Minnesota

**WELCH**, Allison, Ph.D., Assistant Professor of Biological Sciences, (2008) B.S., Truman State University, Ph.D., University of Missouri

**WELCH**, Frances C., Ph.D., Professor of Teacher Education and Dean of the School of Education, Health and Human Performance (1992) B.A., Columbia College; M.A., Ph.D., University of South Carolina; Ed.S., The Citadel

**WESTERFELHAUS**, Robert G., Ph.D., Associate Professor of Communication (2002) B.A., Ohio Dominican College; M.A., Ph.D., Ohio University

**WEYERS**, Joseph R., Ph.D., Associate Professor of Hispanic Studies (1995) B.A., Allegheny College; M.A., Ph.D., The University of New Mexico

**White**, John, Ph.D., Librarian II (2007) B.S., Bridgewater College; M.A., College of Charleston; Ph.D., University of Florida

**WHITE**, Kelly L. Mayer, Ph.D., Assistant Professor of Teacher Education (2008) B.A., James Madison University; M.A., George Mason University; Ph.D., University of North Carolina

**WHITE**, Mary J., M.Ed., Master Teacher, Miles Early Childhood Development Center (1996) B.S., Bluefield State College; M.Ed., University of Charleston, S.C.

**WIDHOLM**, John J., Ph.D., Associate Professor of Psychology (2003) B.A., University of Maryland; M.A., Ph.D., American University

**WILLIAMS**, Anthony Marc, Ph.D., Assistant Professor of Philosophy (2005) B.A., Albion College; Ph.D., Duke University

**WILLIAMS**, Dennis, Ph.D., Senior Instructor of English (1998) B.A., University of Notre Dame; M.A., Ph.D., Cornell University

**WILLIAMS**, James, M.L.S., Associate Dean for Public Services, Technology and Administration (1996) B.A., College of Charleston; M.L.S., University of South Carolina

**WILLIAMS, K. Nicola, Ph.D.**, Assistant Professor of Teacher Education and the Center for Partnerships to Improve Education (2009) B.A., M.A.T, University of Virginia; Ph.D., University of Michigan

**WINFIELD, Idee C., Ph.D.**, Professor of Sociology (1993) B.A., Pennsylvania State University; M.A., Ph.D., Duke University

**WISEMAN, D. Reid, Ph.D.**, Associate Professor of Biology (1976) B.A., M.A., Ph.D., Duke University

**WITTE, Mark, Ph.D.**, Assistant Professor of Economics (2007) B.S., University of Nebraska; Ph.D., University of North Carolina at Chapel Hill

**WOFFORD, Claire B., Ph.D.**, Assistant Professor of Political Science (2011) B.A., Wellesley College; J.D., Duke University; Ph.D., Emory University

**WRAGG, Jeffrey L., Ph.D.**, Senior Instructor of Physics and Astronomy (1992) B.S., Boise State University; M.S., University of Maine; Ph.D., University of Missouri–Columbia

**WRIGHT, Jennifer, Ph.D.**, Assistant Professor of Psychology (2008) B.A., M.A., Ph.D., University of Wyoming

**WYATT, Justin K., Ph.D.**, Associate Professor of Chemistry and Biochemistry (2001) B.S., Oregon State University; Ph.D., University of California, Davis

**XIE, Henry Yu, Ph.D.**, Assistant Professor of Marketing and Global Logistics (2006) B.S., Guangzhou Institute of Foreign Trade; M.B.A., University of South Carolina; Ph.D. Saint Louis University

**YOST, Jeffrey A., Ph.D.**, Associate Professor of Accounting (2000) B.S., Miami University; M.B.A., University of Akron; Ph.D., The Ohio State University

**YOUNG, James E., Ph.D.**, Senior Instructor of Mathematics (2000) B.A., University of West Florida, Pensacola; M.A., Columbia University; Ph.D., University of California, Berkeley

**YOUNG, Paul T., Ph.D.**, Professor of Mathematics (1991) B.S., Lawrence Institute of Technology; M.S., Ph.D., Oklahoma State University

**ZEMP, Robin, M.M.**, Lecturer, Department of Music (2002) B.M., M.M., Peabody Conservatory of Music

**ZIMMERMAN, Anastasia Maria, Ph.D.**, Associate Professor of Biology (2005) B.S., Gonzaga University; M.S., University of San Diego; Ph.D., Washington State University

## Emeritus Faculty

Paul E. Allen

James P. Anderson

Robert L. Anderson

William D. Anderson

Franklin B. Ashley

Gary L. Asleson

Alpha Bah

Jack Bass

Virginia R. Benmaman

Charles K. Biernbaum

Mary G. Boyd

Larry A. Carlson

Malcolm C. Clark

Edward M. Collins

Eugenie G. Comer

Clarence M. Condon, III

Frances H. Courson

Charles R. Crosby

Robert L. Cross

Donald M. Drost

Robert J. Dukes, Jr.

Linda C. Edwards

José Escobar

J. Frederick Ettlne

Gary C. Faber

Conrad D. Festa

Linda H. Fitzharris

Jeffrey A. Foster

Robert R. Foster

Robert Fowler

Harry W. Freeman

Sylvia Gamboa

Thomas Gilson

Richard N. Godsen

Dennis M. Goldsberry

William Golightly

William Gudger

Susan P. Gurganus

George E. Haborak

David H. Hall

B. Jean Hamilton

Mary K. Haney

Joseph M. Harrison

Marsha E. Hass

W. Hugh Haynsworth

Rebecca B. Herring

Samuel M. Hines, Jr.

Paul W. Holmes

Christine A. Hope

George W. Hopkins

Bishop Hunt

Caroline Hunt

Robert C. Ivey

Jeffrey L. Johnson

Gordon Jones

Wayne Jordan

Elise B. Jorgens

Paul E. Jursa

Charles Kaiser

Michael Katuna

Max D. Kennedy

Earl O. Kline

William R. Kubinec

Thomas D. Langley

Edward J. Lawton

Thomas D. Livingston

Carla L. Lowrey

David S. Mann

Jorge A. Marbán

Elizabeth Martin

David Maves

Charles E. Matthews

Peter McCandless

A. Jane McCollough

Arthur W. McDonald

Katherine B. McIntosh

Lawrence L. McNitt

Clyde R. Metz

John N. Michel

Laney R. Mills

J. Franklin Morris

Nan D. Morrison

Duncan R. Munro

Paul T. Nelson

Robert Neville

Robert Norton

Jack D. Parsons

Frank T. Petrusak

Sandra M. Powers

Susan Prazak

Emily H. Remington

Earl M. Rickerson

Alexander W. Ritchie

Mary W. Rivers  
James V. Robinson  
Robert W. Rouse  
Peter J. Rowe  
Rose H. Rowland  
Martha W. Runey  
Alexander M. Sanders, Jr.  
Sheila L. Seaman  
Herb Silverman  
Lawrence J. Simms  
James W. Smiley  
James F. Snyder  
Theodore S. Stern  
Faye Steuer  
Pamela C. Tisdale  
Robert E. Tournier  
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James B. Wilkinson  
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Perry Woodside  
Peter H. Yaun

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