

College of Arts and Sciences



COLLEGE OF ARTS AND SCIENCES

Claire J. Paolini, Ph.D.

Dean and Professor of Modern Languages

The College of Arts and Sciences is the largest of the four colleges at Sacred Heart University and is its most diverse. The College offers the Bachelor of Arts and the Bachelor of Science degrees; the Associate in Arts and the Associate in Science degrees; Master's degrees in Chemistry, Computer Science, Criminal Justice and Religious Studies; and a large variety of minors. Degrees are offered through the following academic departments and programs: Art and Design, Biology, Chemistry, Computer Science, Criminal Justice, English, Government and Politics, History, Mathematics, Media Studies and Digital Culture, Modern Foreign Languages, Philosophy and Religious Studies, Psychology, Social Work, and Sociology. The

College also offers programs in Music and Physics. The mission of the College of Arts and Sciences is to provide students at Sacred Heart University with a sound liberal arts education rooted in the Catholic intellectual tradition. The College offers instruction in a wide variety of academic disciplines. It also seeks to ensure that all undergraduate students at the University acquire a balanced education characterized by the following: clarity in oral and written expression; the ability to think critically, to make judgments based on careful evaluation and to make ethical and moral decisions; the capacity for aesthetic appreciation; the ability to appreciate an accumulated knowledge of the past; and the responsibility to relate with justice and charity to all persons.

To further the above mission, the College strives to provide a learning environment that fosters the growth, development and nurturing of the entire individual.

Discipline	Courses Only (No Major/Minor)	Associate's Degree	Bachelor's Degree	
			Major	Minor
Anthropology	Yes			
Art: Graphic Design		AA	Yes	Yes
Biology		AA		Yes
Traditional			Yes	
Molecular and Cellular			Yes	
Ecology and Conservation Biology			Yes	
Neuroscience			Yes	
Chemistry		AA		Yes
Traditional			Yes	
Biochemistry			Yes	
Communication and Technology Studies			Yes	
Communications				Yes
Computer Science and Information Technology				
Computer Science		AS	Yes	Yes
Information Technology		AS	Yes	Yes

Discipline	Courses Only (No Major/Minor)	Associate's Degree	Bachelor's Degree	
			Major	Minor
Criminal Justice			Yes	Yes
English		AA	Yes	Yes
Communications Concentration				
English Education Concentration				
Literature Concentration				
Theater Concentration				Yes
Writing Concentration				
English as a Second Language	Yes			
European Studies				Yes
Global Studies				Yes
History		AA	Yes	Yes
Latin American Studies				Yes
Mathematics		AA	Yes	Yes
Media Studies		AA	Yes	Yes
Middle Eastern Studies				Yes
Modern Foreign Languages				
Arabic	Yes			
French		AA		Yes
Italian		AA		Yes
Japanese	Yes			
Spanish		AA	Yes	Yes
Music		AA		Yes
Philosophy		AA	Yes	Yes
Physics	Yes			
Political Science		AA	Yes	Yes
Psychology		AA	Yes	Yes
Religious Studies		AA	Yes	Yes
Social Work			Yes	
Sociology		AA	Yes	Yes
Women's Studies (Refer to the Academic Enhancement Programs chapter in this catalog)				Yes

Anthropology

Anthropology is the study of human culture, behavior and biology from a holistic, global and comparative perspective. As a field of study it examines the similarities, differences and development of human culture, behavior and biology. The

Anthropology curriculum emphasizes the subfield of cultural anthropology. Cultural anthropology focuses on the concept of culture, role of culture in contemporary problems and issues, and on the wide range of human cultural patterns in the contemporary world.

Course Descriptions

AN 103 Archeology 3 CR

Focuses on how archeology as a scientific discipline attempts to understand the development of the cultural adaptations of human groups throughout prehistory and history, and how archeology interprets the past. Topics include how archeological sites are formed, dating techniques and the analysis of plant, animal, and human artifacts and remains. With a hands-on approach, students are presented case scenarios relating to archeological digs to better understand the thinking process involved in reconstructing the past.

†AN 110 Human Cultural Diversity 3 CR

The aim of this course is for students to develop an anthropological imagination and understand its relevance for living in the contemporary world. An anthropological imagination involves cultivating an interest in and an understanding of the unity, diversity, and development of human biology, society, and culture. As an introduction to the study of human cultural diversity, this course emphasizes the concept of culture, human sociocultural variation, and patterns of sociocultural change in contemporary human societies.

†AN 201 World Cultures 3 CR

Examines a cross section of societies, including hunter-gatherer, horticultural, peasant, pastoral and industrial. Themes of cultural diversity, cultural contact and understanding “the other.”

†AN 205 North American Indians 3 CR

Covers the cultural development and diversity of aboriginal North America, the impact of European contact on Native American societies and contemporary issues among North American Indians.

†AN 250 Doing Ethnography: Qualitative Research in the Social Sciences 3 CR

The aim of this course is for students to develop an understanding of and an ability to use ethnography as a method of social science research. Combining theoretical and applied readings and practical

assignments, the focus is on participant observation and interviewing, writing field notes, and the transformation of field data into ethnographic documents. In addition, students develop an understanding of the epistemological, political, and ethical issues surrounding ethnographic research. *Prerequisite:* SO110 or AN110

†AN 280 Native American Literature 3 CR

Native American literature is explored in order to develop an understanding of the history, society and culture of Native Americans, and an appreciation of their literary contributions.

AN 299 Special Topics in Anthropology 3 CR

Designates new or occasional courses (i.e., one capitalizing on a timely topic). *Prerequisites:* Established by the department as appropriate for the specific course.

Art and Design

At the core of the Art and Design program is the study of the fundamentals and principles of art and design combined with an introduction to some of the finer accomplishments of humankind, giving students a sense of duty in terms of serving the idea and helping them to realize that their work in art and design can realistically effect change in the world. In doing so, the Sacred Heart University Art and Design program serves the University’s mission to challenge its students to think visually, observe critically, develop analytical skills and problem-solving abilities, evaluate with a sense of proportion, and communicate observations in an intelligible and articulate fashion. Students learn to develop an aesthetic for their world and to sharpen their abilities to imagine, create, and appreciate. The Art and Design program is designed to create visual communication skills within the students and to engage them in verbal dialogue and, thus, establish a foundation for ongoing experience, learning and enrichment in their lives ahead.

The Art and Design program offers concentrated studies in graphic design, which includes extensive course offerings in all levels of visual communication design. Students study typography, layout, computer graphics, illustration, multimedia, motion, and web design. Students learn to select the best method for creating visual solutions to specific problems as well as the exploration of the wide variety of potential career markets. Foundation courses include drawing, two-dimensional and three-dimensional design, and painting, as well as computer design applications in order to provide a foundation for the variety of challenges faced in graphic design. Study in illustration includes editorial, medical, and storyboard art, as well as fantasy, comic book, and graphic novels. In addition, the Art and Design program has an extensive internship program. Students qualifying for the internship program have the opportunity to work for some of the nation's best design, marketing, and communications companies.

Faculty

John S. de Graffenried, MFA, *Associate Professor*

Nathan Lewis, MFA, *Assistant Professor*

Mary Treschitta, MA, *Instructor*

Jonathan Walker, MFA, *Associate Professor*

Art and Design Computer Lab and Studios

Facilities include a digital design laboratory with state-of-the-art Macintosh computers, a second audiovisual studio with complete wireless computer support, a full complement of the latest versions of all industry-standard software, multiple professional-grade color printers, and large and standard format scanners. Facilities also include painting, design, drawing, and illustration studios.

Apple Laptop Program for Art and Design Majors

Every declared full-time art major, when they reach Junior status, is issued the latest version

Macintosh laptop computer. All the laptops are configured identically, all enjoy full support from on-campus and departmental Apple-certified technicians. Upon completion of the degree, the laptop stays with the student and becomes a key component of their fledgling career.

Major in Art and Design

The major in Art and Design requires the completion of 51 credits for a concentration in Graphic Design. All Art and Design majors complete 24 credits in foundation courses plus 27 credits in the area of concentration.

Required Courses for Art and Design

Foundation Courses

AR 101 Art in the Western World

AR 110 Design: Visual Organization

AR 111 Design II: Color

AR 112 Three-Dimensional Design

AR 120 Drawing I

AR 130 Painting I

or

AR 131 Watercolor

AR 201 Studies in Modern Art

AR 214 Computer Design Basics

AR 220 Drawing II

AR 224 Multimedia

Advanced-Level Required Courses in Graphic Design

AR 160 Illustration I

AR 211 Graphic Design I

AR 270 Graphic Design II

AR 271 Graphic Design III

AR 272 Advertising Design or AR 275 Web Page Design

AR 370 Graphic Design IV

AR 390 Graphic Design Portfolio

Minor in Art and Design

The minor in Art and Design requires the completion of 18 credits.

Required Courses for Graphic Design Minor

AR 110 Design: Visual Organization

AR 111 Design: Color

AR 112 Three-Dimensional Design

AR 120 Drawing I

AR 211 Graphic Design I

AR 214 Computer Design Basics

Associate in Arts General Studies

Emphasis Requirements (15 credits)

AR 101 Art in the Western World

Four Art electives

Course Descriptions

†AR 101 Art in the Western World 3 CR

Explores ideas and arts of cultures that initiate and develop into the Western tradition. Includes an analysis of the basic characteristics of the art and architecture of these eras in the context of general cultural trends.

†AR 104 American Art: Colonial to Modern 3 CR

Covers the ideas and ideals in American art in reference to the European mainstream. Emphasis is on styles and forms of the American environment and experience that constitute the characteristic tradition in painting, sculpture and architecture.

†AR 110 Design: Visual Organization 3 CR

Investigates the compositional elements of art structure. Principles and elements of two-dimensional design line, shape, value, texture and space are examined, with emphasis on the visual communication of ideas.

AR 111 Design: Color 3 CR

Design principles are explored through the investigation of color interaction and color theory. Emphasis is on pigment mixing and the control of intervals of value, chroma and intensity. *Prerequisite:* AR 110

AR 112 Three-Dimensional Design 3 CR

Explores ideas dealing with mass, volume and planes in space using various materials. *Prerequisite:* AR 110

†AR 120 Drawing I 3 CR

Explores fundamental problems of composition and perception as related to drawing. Experimentation is with varied media directed toward both the descriptive and expressive visual conceptualization of ideas.

AR 130 Painting I 3 CR

An introduction to painting methods and media. Guided experimentation in oil or acrylic with emphasis on content, color interaction and properties of the media.

AR 131 Watercolor 3 CR

An introduction to varied techniques of paint application. Assignments are based on direct studies of nature, still life and conceptual thinking. *Prerequisites:* AR 111 and AR 120

AR 160 Illustration I 3 CR

Introduction of fundamental techniques used in professional illustration. Secondary emphasis on business aspects of commercial art. Assignments range from portraiture to sequential art storyboards. *Prerequisite:* AR 220

AR 161 Animation, Comic and Fantasy Art I 3 CR

The academic study of the human body in motion, with an emphasis on dynamic positions that are the common denominators in animation, comic or fantasy art. *Prerequisite:* AR 120 or permission of instructor

AR 162 Animation, Comic and Fantasy Art II 3 CR

Emphasis on each student's given area of professional interest, such as animation cells, comic storytelling, or fantasy book cover art. *Prerequisite:* AR 161

†AR 201 Studies in Modern Art 3 CR

An analysis of the works and questions raised by the arts of the 19th and 20th centuries. Examines the roles of modern artists as they reflect and project or comment on life in the 20th century.

†AR 204 Renaissance Art 3 CR

A critical discussion of the historical, conceptual and formal changes in the visual arts within the 15th and 16th centuries. Includes an analysis of the influence of Italian and northern European painting on European cultures.

†AR 205 European Art: 17th–19th Century 3 CR

Discussion of the major developments in painting, sculpture and architecture during the 17th and 18th centuries as modified by the historical situations and humanistic values in specific countries.

†AR 206 Contemporary Art 3 CR

Examines art currently in galleries and museums. Surveys the development of new approaches to form and analyzes the formal idea as related to execution and content. *Prerequisite:* AR 201

†AR 208 Introduction to Eastern Art 3 CR

Explores issues such as continuity and dichotomy of subject and style and other significant issues of Eastern art. Eastern attitudes are compared and contrasted with the art and ideas of parallel Western periods.

AR 211 Graphic Design I 3 CR

An introduction to classical and modern typefaces, the mechanics of type composition and the fundamentals of layout. Consideration is given to the selection of typefaces that enhance thought and idea. *Prerequisite:* AR 110 and AR 214

AR 214 Computer Design Basics 3 CR

An introduction and exploration of primary graphic design programs concentrating on Adobe Photoshop and Adobe Illustrator. Only the most basic design concepts are explored in assign-

ments, ensuring a basic understanding of the technological tools of design.

AR 220 Drawing II 3 CR

Development of the student's ability to conceive the figure as form and volume with stress on gesture, proportion and anatomy. Emphasis is on a refinement of techniques for individual expression and self-awareness. *Prerequisite:* AR 120

AR 221 Drawing III 3 CR

An intensive investigation of media and form as related to the figure. Problems progress from structural ideas to more sophisticated exploitation of subject matter and finally to individual interpretations. *Prerequisite:* AR 220

AR 223 Three-Dimensional Drawing 3 CR

Deals with the rendering of three-dimensional space and forms. Visual processes relating to depth of field, objects in deep space, volume modeling and conceptualizing are explored. *Prerequisites:* AR 110 and AR 120

AR 224 Multimedia 3 CR

An introduction to multimedia as it applies to presentation methods and as an interactive/animation tool. Students explore this media through presentation and animation projects. *Prerequisite:* AR 214

AR 230 Painting II 3 CR

Development of painting techniques with emphasis on pictorial organization and color sensitivity. Focus on the development of creativity and individuality. *Prerequisite:* AR 130

AR 231 Painting III 3 CR

Development of individual expression through exploration of independent compositional ideas and technical means related to content. Critiques and evaluations are constant. *Prerequisite:* AR 230

AR 260 Illustration II 3 CR

Emphasis is on the technical study of color pencils

and watercolor. As the semester progresses, greater emphasis is placed on content and imaginative solutions. Focus is on the information gathering inherent in illustrative problem solving. *Prerequisite:* AR 160

AR 261 Illustration III 3 CR

Continued emphasis on traditional illustrative techniques used in conjunction with the digital application of Adobe Photoshop. Students are encouraged to create works of substance and complexity in regard to composition and thematic content. *Prerequisite:* AR 260

AR 262 Head Painting and Drawing 3 CR

Covers structural painting and drawing of the head and its character. Emphasis on historical and traditional methods of representation using various media and techniques. *Prerequisite:* AR 220

AR 264 Advertising Illustration 3 CR

Deals with imparting visual impact and excitement for the selling of products and services. Developing illustrations for advertising with consideration of reproduction requirements. Problems deal with line, black-and-white, limited and full-color advertising. All media. *Prerequisite:* AR 261

AR 270 Graphic Design II 3 CR

Includes development of ideas as related to print media, package design, publication design and corporate identity systems. Emphasis on the ability to create effective problem-solving concepts. *Prerequisites:* AR 211 and AR 214

AR 271 Graphic Design III 3 CR

Focuses on solving specific design problems by establishing ideas from rough layout to tight comps and coordinating the elements to create effective visual statements. *Prerequisite:* AR 270

AR 272 Advertising Design 3 CR

Explores aspects of print and rich media advertising, including its creation and presentation. Stresses concepts as related to advertising promotion. *Prerequisite:* AR 270

AR 274 Computer Graphic Design 3 CR

Explores complex design software programs with primary focus on the application of computer design in the preparation of print material. *Prerequisite:* AR 270

AR 275 Web Page Design 3 CR

The development of fundamental skills for creating web sites, with particular emphasis on the effective organization and visual presentation of information. Students analyze existing sites as well as create one of their own. Includes an introduction to HTML, Dreamweaver, and Flash. *Prerequisites:* AR 224 and AR 270

AR 299 Special Topics in Art 3 CR

New or occasional courses that may become part of the department's permanent offerings. Courses capitalize on timely topics, an instructor's particular interest or alternatives to existing courses. *Prerequisite:* Established by department

AR 320 Drawing IV 3 CR

Focuses on advanced problems of perception, structure, anatomy and concepts in drawing the human figure. Emphasis on independent development of the expressive use of various drawing media. *Prerequisite:* AR 221

AR 330 Painting IV 3 CR

Studio emphasis on development and clarification of personal and imaginative statements. Initiative and discipline toward the production of a sustained body of consistent work is expected. *Prerequisite:* AR 231

AR 360 Illustration IV 3 CR

Focus is on editorial- and thematic-based subject matter utilizing illustrative tools and techniques introduced in previous illustration classes including traditional and digital applications. Emphasis is on the continued development and preparation of idea sketches in relation to problem solving of illustrative art. *Prerequisite:* AR 261

AR 363 Editorial Illustration 3 CR

A study of illustration with short story and editorial views. Preparation of idea sketches in relation to the text, page layout and finished illustrations. *Prerequisite:* AR 260

AR 370 Graphic Design IV 3 CR

An in-depth investigation of realistic promotional programs ranging from concept to finished visual. Emphasis on individual creative solutions relative to product and idea, budget and client. *Prerequisites:* AR 112 and AR 271

AR 390 Graphic Design Capstone 3 CR

Development of a professional portfolio, resume and promotional materials, culminating in a public presentation to area design, advertising, marketing, and recruitment professionals. Guidance from faculty and visiting professionals. *Prerequisites:* All required art courses in major emphasis

AR 391 Senior Project Capstone 3 CR

Encompasses problem-solving and techniques indicative of the ability to work as a mature and independent artist. Includes preparation and presentation of work. *Prerequisites:* All required art courses in major emphasis

AR 392 Illustration Capstone 3 CR

The continued development and final construction of a professional presentation portfolio, resume and promotional materials. Additional focus on business-related information, such as taxes, expenses and contracts. *Prerequisites:* AR 360. all required art courses in major emphasis

AR 396 Internship 3 CR

By permission of department chair. Based on availability, qualified students are placed in positions with leading design, advertising, and marketing firms.

Biology

The Biology Department's curriculum is designed to reflect the complexity and diversity of the living world. Graduates will be conversant in the cellular and molecular basis of life, the design and functioning of individual organisms and the ecological interactions of organisms. They will respect the primacy of evidence and appreciate its role in the historical development and advancement of a discipline. Graduates will be able to analyze evidence in a critical fashion through exposure to data analysis in literature and in laboratory coursework. Finally, graduates will be cognizant of the possible social impact of biological progress and will be prepared to wrestle with the difficult ethical conflicts resulting from such advancement.

Students may choose from one of four different concentration areas to support these academic objectives: Traditional, Biotechnology, Ecology and Conservation Biology and Neuroscience. The foundation of each of these concentrations is a common set of core biology courses, including genetics, evolutionary analysis, cell biology or animal physiology, and ecology. The Traditional program emphasizes a broad training in biology by requiring one upper-division elective in each of three modules corresponding to different levels of biological organization. The Biotechnology concentration emphasizes coursework in biotechnology, microbiology and cell/molecular biology, and is ideal for students preparing for graduate or professional training in the biomedical sciences or employment in the pharmaceutical and biotechnology industries. The Ecology and Conservation Biology concentration is designed to prepare students for graduate training and/or careers in environmental protection and restoration, and emphasizes field work in ecology and conservation. Students concentrating in Neuroscience will have the opportunity to integrate coursework in neurobiology with coursework in psychology. This con-

centration is excellent preparation for graduate and professional training in the biomedical sciences and careers in the health professions. The Biotechnology, Ecology and Conservation Biology and Neuroscience concentrations also require hands-on learning in the form of supervised research and/or internship, and these experiences are also strongly encouraged for students pursuing the Traditional program. Admission to the Biotechnology, Ecology and Conservation Biology, and Neuroscience concentrations is by application only.

Faculty

Kirk Bartholomew, Ph.D., *Assistant Professor*

Mark Beekey, Ph.D., *Assistant Professor*

Suzanne M. Deschênes, Ph.D., *Associate Professor*

Mark Jareb, Ph.D., *Associate Professor*

Marian Leal, M.S., *Instructor*

Jennifer H. Mattei, Ph.D., *Associate Professor*

Christopher E. Mojcik, Ph.D., M.D., *Lecturer*

Barbara Pierce, Ph.D., *Assistant Professor*

Nicole Roy, Ph.D., *Assistant Professor*

Geffrey F. Stopper, Ph.D., *Assistant Professor*

Thomas Terleph, Ph.D., *Assistant Professor*

Biology Laboratories

The University supports the biology program with four teaching laboratories, four research laboratories, a field van and a climate-controlled greenhouse. Modern equipment is available for such techniques as electrophoresis, spectrophotometry, high-speed centrifugation, recombinant DNA work, biochemical purification and analyses, oscillography, histological preparation, cell culture, microinjection, digital data and image acquisition, fluorescence microscopy, physiological measurement and aquatic and terrestrial environmental studies.

Major in Biology

The B.S. degree in Biology requires the comple-

tion of 40–49 credits in biology and 23–39 credits in supporting courses, many of which also fulfill University elective requirements.

Required Courses for All Concentrations

Required Biology Core Courses

BI 111, 112 Concepts in Biology I and II

BI 113, 114 Concepts in Biology I and II Laboratory

BI 220/BI 221 Genetics and Genetics Laboratory

BI 225/BI 226 Evolutionary Analysis and Evolutionary Analysis Laboratory

BI 311 Cell Biology

BI 350 Ecology

BI 399 Senior Seminar

Required Supporting Courses for All Concentrations

CH 151, 152, 153, 154 General Chemistry I and II w/Lab

CH 221, 223 Organic Chemistry I w/ Lab

MA 131 Statistics for Decision Making
or

MA 133 Business Statistics

At least 4 credits in physics at the 100 level or above

One other mathematics course: MA 140 or above; MA 151 is recommended

One course in bioethics or medical ethics is recommended

Additional Required Courses for the Traditional Concentration

Additional Required Courses for the Traditional Concentration

Students must elect at least *one course from each* of the three following modules. Where a course appears in more than one module, its selection can satisfy only one of those modules.

Environmental Biology Module

BI 210 Plant Biology

BI 240 Invertebrate Biology

BI 245 Vertebrate Biology
BI 255 Animal Behavior
BI 260 Marine Biology
BI 265 Conservation Biology

Organismal Biology Module

BI 205 Essentials of Neuroscience
BI 210 Plant Biology
BI 212 Animal Development
BI 230 Microbiology
BI 240 Invertebrate Biology
BI 245 Vertebrate Biology
BI 255 Animal Behavior
BI 260 Marine Biology
BI 312 Systems Physiology
BI 345 Neurobiology

Molecular Biology Module

BI 212 Animal Development
BI 230 Microbiology
BI 235 Principles of Biotechnology
BI 311 Cell Biology
BI 345 Neurobiology
BI 355 Molecular Biology

In addition to the three module electives, a student in the Traditional program must elect one additional biology course from the 200 level or above. BI 132 is the only exception to this rule. Both BI 390 Supervised Research and BI 360 Internship can be used to meet this elective requirement.

Additional Required Supporting Courses for the Traditional Concentration

CH 222, 224 Organic Chemistry II w/Lab

Additional Required Courses for the Molecular and Cellular Concentration

Additional Required Biology Electives for the Molecular and Cellular Concentration

BI 230 Microbiology
BI 235 Principles of Biotechnology
BI 311 Cell Biology (fulfills the biology core

requirement)
BI 355 Molecular Biology
BI 360 Internship or BI 390 Supervised Research

Additional Required Supporting Courses for the Molecular and Cellular Concentration

CH 341, 342 Biochemistry I and II
CH 343, 344 Biochemistry Laboratory I and II
MA 151 Calculus I (fulfills the MA 140 or above requirement)

Additional Required Courses for the Ecology and Conservation Biology Concentration

Additional Required Biology Electives for the Ecology and Conservation Biology Concentration

BI 210 Plant Biology
BI 240 Invertebrate Biology or BI 245 Vertebrate Biology
BI 265 Conservation Biology
BI 390 Supervised Research or one field course at a preapproved biological field station.
Two additional biology courses from the 200 level or above.

Required Supporting Courses for the Ecology and Conservation Biology Concentration

MA 151 Calculus I (Fulfills the MA 140 or above requirement)

Additional Required Courses for the Neuroscience Concentration Additional Required Biology Electives for the Neuroscience Concentration

BI 205 Introduction to Neuroscience
BI 255 Animal Behavior
BI 345 Neurobiology
BI 360 Internship or BI 390 Supervised Research

Additional Required Supporting Courses for the Neuroscience Concentration

CH 222, 224 Organic Chemistry II w/Lab

PS 110 Introduction to Psychology
 PS elective 200 level or above
 Two psychology electives from the following:
 PS 335 Learning and Memory
 PS 351 Physiological Psychology
 PS 352 Hormones and Behavior
 PS 353 Psychopharmacology
 PS 380 Advanced Psychological Research
 PS 389 Special Topics in Neuroscience

Minor in Biology

The minor in Biology requires the completion of the following 24 credits:

BI 111 Concepts in Biology I
 BI 112 Concepts in Biology II
 BI 113 Concepts in Biology I Laboratory
 BI 114 Concepts in Biology II Laboratory
 CH 151 General Chemistry I
 CH 153 General Chemistry Laboratory I

Three biology courses at the 200 or 300 level in consultation with a Biology advisor

Associate in Arts General Studies Emphasis Requirements (24 credits)

BI 111 Concepts in Biology I
 BI 112 Concepts in Biology II
 BI 113 Concepts in Biology I Laboratory
 BI 114 Concepts in Biology II Laboratory
 CH 151 General Chemistry I
 CH 153 General Chemistry Laboratory I

Three biology electives at the 200 or 300 level chosen in consultation with a Biology advisor

Biology Common Core Course

BI CC 103 Human Journey: Scientific Discovery

Course Descriptions

**BI CC 103 Human Journey: Scientific
 Discovery** **3 CR**

Focuses on scientific approach and its uses and limits in addressing fundamental questions of humanity. The practice of scientific inquiry with respect to political, social, and cultural factors is examined, particularly in the context of the

Catholic Intellectual Tradition. Potential topics discussed include learning about your own ancient genetic lineage, evolution, genetic testing, environmental pollution, global climate change, and disease prevention. *Prerequisites:* HI CC 101, EN CC 102

†BI 010 The Nature of Life **4 CR**

Examines molecular and cellular nature of life, energy systems in plants and animals, origin of life, basic evolutionary strategies and ecological principles. Three hours of lecture and two hours of experiment and discussion per week. Non-science majors.

†BI 020 Heredity and Society **3 CR**

A genetics course examining the evidence for proposing the existence of genes, the molecular nature of genes and the ethical implications of recent advances in genetic research. Three hours of lecture per week. Non-science majors.

†BI 025 Connecticut Wildlife **3 CR**

A laboratory and field-oriented core course. Emphasis on wildlife and habitat diversity in the American Northeast, especially Connecticut. The central theme is adaptation. Topics include predation, migration, reproduction and species identification. Five hours per week. Non-science majors.

†BI 026 Winter Wildlife **3 CR**

A laboratory and field-oriented core course. Emphasis on winter adaptations of wildlife in the American Northeast, especially Connecticut. Topics include migration, species identification, tracking and feeding ecology. Five hours per week. Non-science majors.

†BI 030 The Human Body **3 CR**

Focuses on human physiology and the role humans play in the health and maintenance of their bodies. Topics include human organization, processing and transporting, integration and coordination and reproduction. Three hours of lecture per week. Non-science majors.

†BI 040 Coastal Ecology 3 CR

This course investigates the interrelationship between coastal environments and the organisms living in these environments. It also looks at related societal implications. Non-science majors,

†BI 050 Biology of Poisons 3 CR

This course presents the principles of toxicology within a human context, discusses how toxicology affects everyday life, and investigates the broader issues for public health and disease prevention. This is an online course for non-science majors.

†BI 052 Humans and the Environment 3CR

Students will learn about environmental science, exploring how human activity changes our natural environment. The importance of clean air, land, and water will also be discussed. Non-science majors.

†BI 111 Concepts in Biology I 3 CR

Discusses cell biology, energetics, genetics, origin of life and evolution. Three hours of lecture, one hour of discussion per week. *Corequisite:* BI 113

†BI 112 Concepts in Biology II 3 CR

Addresses organismal organization, transport, nutrition, control of the internal environment, hormonal and neural control and reproduction in plants and animals. Three hours of lecture, one hour of discussion per week. *Prerequisite:* BI 111; *Corequisite:* BI 114

BI 113 Concepts in Biology I

Laboratory 1 CR

Focuses on fundamental biological methods, including microscopic techniques; cell structure; biological chemistry; cellular physiology; molecular biology and cell division. One three-hour session per week. *Corequisite:* BI 111

BI 114 Concepts in Biology II

Laboratory 1 CR

A survey of biodiversity including bacteria, fungi, plants, and animals. Selected topics include investigations of plant and animal physiology. One three-hour session per week. *Prerequisite:* BI 113; *Corequisite:* BI 112

BI 126 Nursing Anatomy and

Physiology I 3 CR

Lecture on the investigation of cell structure and function, tissues, skeletal, muscular and nervous systems. Nursing students only. Three hours of lecture and one hour of discussion. *Corequisite:* BI 127

BI 127 Nursing Anatomy and

Physiology I Laboratory 1 CR

Laboratory involves investigation of cell structure and function, tissues, skeletal, muscular and nervous systems. Three hours of laboratory. *Corequisite:* BI 126

BI 128 Nursing Anatomy and

Physiology II 3 CR

Lecture involves the investigation of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Nursing students only. Three hours of lecture and one hour of discussion. *Prerequisites:* BI 126 and BI 127; *Corequisite:* BI 129

BI 129 Nursing Anatomy and

Physiology II Laboratory 1 CR

Laboratory involves the investigation of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Three hours of laboratory. *Corequisite:* BI 128

BI 131 Human Anatomy and

Physiology I 3 CR

Lecture on the investigation of the tissues, skeletal, muscular, and nervous systems. This section is for students interested in athletic training, exercise science, physical therapy, occupational therapy, or physician assistant programs. Three hours of lecture per week. *Prerequisites:* BI 111 and BI 113; *Corequisite:* BI 133

BI 132 Human Anatomy and

Physiology II 3 CR

Lecture involves the investigation of endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Three hours of lecture per week. This section is for students interested in athletic training, exercise science, physi-

cal therapy, occupational therapy, human movement or physician assistant programs. Three hours of lecture. *Prerequisites:* BI 131 and BI 133; *Corequisite:* BI 134

BI 133 Human Anatomy and Physiology I Laboratory 1 CR

Laboratory involves investigation of the tissues, skeletal, muscular, and nervous systems. Three hours of laboratory. *Corequisite:* BI 131

BI 134 Human Anatomy and Physiology II Laboratory 1 CR

Laboratory involves the investigation of endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Three hours of laboratory. *Corequisite:* BI 132

Note: BI 132 may not be taken for credit after completion of BI 312

BI 161 Introduction to Microbiology 3 CR

The study of microorganisms with emphasis on morphology; cultivation, genetics of bacteria, viruses and fungi, and infectious diseases caused by these microbes. Nursing students only. Three hours of lecture per week. *Corequisite:* BI 162

BI 162 Introduction to Microbiology Laboratory 1 CR

Laboratory work stresses aseptic technique and the microscopic, nutritional and biochemical characteristics of bacteria. One three-hour laboratory period per week. *Corequisite:* BI 161

BI 205 Essentials of Neuroscience 3 CR

This course is an introduction to neuroscience, a discipline in which the biological and psychological sciences are integrated. This broad overview addresses topics ranging from the cellular physiology of neurons to issues of human language, cognition and mental illness. *Prerequisite:* BI 111, BI 113, PS 101

BI 210 Plant Biology 4 CR

Three diverse topics in plant biology are introduced: plant evolution and diversity, the physiological ecology of plants, and the linked topics of eth-

nobotany and economic botany. Laboratory work concentrates on intensive investigations of the life cycle and physiology of the popular laboratory organisms *Arabidopsis thaliana* and *Ceratopteris richardii*. Three hours of lecture and three hours of laboratory per week. *Prerequisites:* BI 112 and BI 114

BI 212 Animal Development 4 CR

Examines cellular and molecular aspects of animal development, from gametogenesis to morphogenesis and pattern formation. Laboratory work includes investigations on fertilization, cellular differentiation, regeneration and the development of vertebrate organ systems. Three hours of lecture and three hours of laboratory per week. *Prerequisites:* BI 112, BI 114 and BI 220

BI 220 Genetics 3 CR

The study of inheritance, with emphasis on the evidence that led to the emergence of the areas of transmission and the development of molecular genetics. Ethical issues precipitated by genetic research are discussed. Three hours of lecture per week. *Prerequisites:* BI 111 (minimum grade of C), BI 113 (minimum grade of C), MA 131 or MA 133, CH 151 and CH 153 (math and chemistry courses may be taken concurrently). *Corequisite:* BI 221

BI 221 Genetics Laboratory 1 CR

Laboratory work demonstrates the power of organisms such as *E. coli*, *Drosophila*, and *S. cerevisiae* in studying transmission genetics and mutagenesis. Basic techniques in molecular biology and microbiology are introduced. Three hours of laboratory per week. *Corequisite:* BI 220

BI 225 Evolutionary Analysis 3 CR

Utilizing an investigative framework, students explore the relevance of evolution to real-life problems, and understand that both evolution and natural selection are observable processes. Mechanisms of evolutionary change and the history of life on earth will also be explored. Three

hours of lecture per week. *Prerequisite:* MA 131 or MA 133, BI 112 (minimum grade of C), BI 114 (minimum grade of C); *Corequisite:* BI 226

BI 226 Evolutionary Analysis

Laboratory **1 CR**

Three hours of laboratory per week. *Corequisite:* BI 225

BI 230 Microbiology **4 CR**

Microbial diversity and the evolution, physiology, genetics and ecology of microbes are addressed. Specific topics include: epidemiology and infectious disease and the use of microorganisms in industry and research. Laboratory work focuses on modern molecular methods of experimental microbiology and bacterial identification, including a student-designed research project. Three hours of lecture and three hours of laboratory per week. *Prerequisites:* BI 111, BI 113, CH 151 and CH 153

BI 235 Principles of Biotechnology **4 CR**

This course focuses on the fundamental biotechnology techniques (e.g., nucleic acid analysis and genomics, bioinformatics, cell culture and proteomics) used in modern industrial research laboratories through the application of a semester-long project. *Prerequisite:* BI 220, MA131; *Prerequisite or Corequisite:* CH 221/223

BI 240 Invertebrate Biology **4 CR**

Examines the evolution and ecology of invertebrates including: phylogenetic relationships, life history, physiology, and morphological adaptations. Laboratory component includes dissections and field trips to Long Island Sound. Three hours of lecture and three hours of laboratory per week. *Prerequisites:* BI 112 and BI 114

BI 245 Vertebrate Biology **4 CR**

Examines the evolution and ecology of the vertebrates, including taxonomy, life history, anatomy and physiology of extant and extinct vertebrates. Three hours of lecture and three hours of laboratory per week. *Prerequisites:* BI 112 and BI 114

BI 255 Animal Behavior **4 CR**

An introduction to how animals of all different types use behaviors as strategies for interacting with the environment. Behaviors studied include communication, habitat selection, migration, mate choice, breeding and parental care. Development and physiological control of behaviors are also examined. Three hours of lecture and one laboratory/field session per week. *Prerequisites:* BI 112, BI 114, MA 131

BI 260 Marine Biology **4 CR**

Examines the structure and function of marine habitats at the organismal, population community, and ecosystem levels. Laboratory includes field investigation of different types of estuarine and coastal habitats and design of basic and applied marine ecological investigations. One mandatory overnight weekend field trip. Three hours of lecture and one three-hour laboratory per week. *Prerequisites:* BI 112 and BI 114

BI 265 Conservation Biology **4 CR**

The focus of this course is on the science of conservation biology in the context of environmental policy, socioeconomic demands and environmental ethics. *Prerequisite:* BI 112, BI 114

BI 299 Special Topics in Biology **3–4 CR**

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Prerequisites are established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and prerequisites.

BI 311 Cell Biology **4 CR**

Covers advanced topics in eukaryotic cell biology with emphasis on protein biochemistry. Laboratory work includes enzyme kinetics, biochemical pathway studies and other biological analyses. Three hours of lecture and three hours of laboratory per week. *Prerequisites:* BI 220, CH 152 and CH 154

BI 312 Systems Physiology 4 CR

Investigation of the physiology of vertebrate systems. Topics include cardiovascular, respiratory, neural, muscular, digestive, endocrine, reproductive and excretory physiology. Laboratory instruction includes practical investigation and survey research projects into the above topics and related illnesses. *Prerequisites:* BI 112, BI 114, CH 152 and CH 154

BI 325 Immunology 3 CR

Examines the immune response including characteristics of antigens, antibodies, and antigen-antibody interactions. Three hours of lecture per week. *Prerequisite:* BI 220/BI 221

BI 345 Neurobiology 4 CR

Covers cell biology of neurons, electrical and biochemical signaling, motor control, sensation and perception, learning and memory, and brain anatomy. Laboratory instruction includes practical investigations and survey research projects into the above topics and related illnesses. *Prerequisites:* BI 112, BI 114, CH 152 and CH 154

BI 350 Ecology 3 CR

Examines fundamental concepts of plant and animal interactions as revealed by field and laboratory studies of populations, communities and ecosystems. Three hours of lecture per week. *Prerequisites:* BI 112, BI 114, CH 152, CH 154 and MA 131; *Recommended course:* MA 151; *Corequisite:* BI 351

BI 351 Ecology Laboratory 1 CR

One three-hour laboratory/field session per week. *Corequisite:* BI 350

BI 355 Molecular Biology 4 CR

Provides foundations of molecular biology and recombinant DNA technology, analysis of relevant primary journal articles, hands-on training in recombinant DNA techniques, and exposure to the use of computers in DNA sequence analysis and scientific communication. *Prerequisites:* BI 220, CH 152 and CH 154

BI 360 Internship 3–6 CR

A study of a biological topic or of an interdisciplinary project that provides majors with an opportunity to gain experience not specifically available in Sacred Heart University's Biology curriculum. Students complete an internship portfolio under the direction of an appropriate professional in consultation with a biology faculty advisor.

BI 390 Supervised Research 3 CR

Individual research projects in the basic areas of Biology under the supervision of faculty. *Prerequisites:* A 3.0 GPA and permission of the supervising faculty member

BI 399 Senior Seminar 2 CR

A capstone course for the Biology major. A review of current research and literature in a specialized field of biological science. A research paper and final oral presentation on a selected topic is required. *Prerequisites:* Senior status and permission of advisor

Catholic Studies Faculty

June-Ann Greeley, Ph.D., *Program Director*

Catholic Studies refers to academic programs that allow students to explore the Catholic Intellectual Tradition as it is manifested in any and every academic field. Catholic Studies programs are broadly interdisciplinary, and so distinguished from programs of theological or religious studies. Catholic Studies embraces the humanistic quest for knowledge, with a particular focus on the role of Catholic thinkers, Catholic ideas and values, and Catholic institutions in that quest. The insight here is that the exploration of the particular gives a deeper appreciation of the universal. Thus, the word "Catholic" in the phrase "Catholic Studies" has two meanings. On the one hand, it conveys a scholarly focus on the Roman and Eastern Catholic heritage in its theological, philosophical, historical, literary, artistic, and scientific expres-

sions; on the other, it suggests an intellectual quest that is truly catholic—“universal” in the sense of considering how a tradition of ideas, beliefs, and values has exerted influence “throughout the whole” of Western culture and, indeed, of global society.

The goal of the minor and certificates is to provide students an interdisciplinary exposure to the ideas that constitute the Catholic intellectual traditions. To complete the certificate, a student must take four courses identified by the Center for Christian Thought, Ethics, and Culture (CCTEC) as part of the Catholic Studies Program. The courses must come from at least two different departments/disciplines, one of which must be Religious Studies. The courses change every semester; they are listed in the schedule of courses issued by the Registrar’s Office. Students should consult with the director of the program to plan their course of study.

Minor in Catholic Studies

The minor in Catholic Studies requires the completion of 18 credits.

Required Foundation Course

CSP 101 -Foundations of the Catholic Intellectual Tradition

Any two from the following core courses: PH 221, PH 241, PH 283, RS 242, RS 245, RS 268.

The remaining three courses must be selected from at least 2 distinct disciplines, but overall the minor course of study should include no more than 3 courses in any one discipline.

All students taking a minor in Catholic Studies must complete an Independent Study capstone course and capstone paper. The candidate for the minor in Catholic Studies has full discretion in the selection of department for the Independent Study; however, the director of the minor must be able to participate in the criteria for the capstone paper. The purpose of the capstone course and paper is to afford the candidate an opportunity to

integrate his/her Catholic Studies academic history of the Catholic intellectual tradition in Catholic Studies courses into a systematic and meaningful curriculum of readings and scholarship.

Certificate in Catholic Studies

General Track

The Certificate in Catholic Studies requires 12 credits, by the completion of four approved Catholic Studies courses. The courses must come from at least two different departments/disciplines, one of which must be Religious Studies.

To receive the Catholic Studies Certificate, the student must compile a portfolio of at least one piece of writing or other creative work that was evaluated for credit in each course. Concurrent with or after the completion of the fourth course, the student will write, as part of the portfolio, a capstone paper. This paper will present the student’s personal understanding of the Catholic intellectual tradition, or critically explain two major themes in the Catholic intellectual tradition; the paper must relate this discussion to each of the courses taken. The portfolio is due to the Catholic Studies coordinator no later than the add/drop date of the semester following the semester in which the fourth course was completed. For more information, contact the director of CCTEC.

Catholic Social Thought Track

A second track in the Catholic Studies Certificate will be available for students in the Catholic Social Thought Scholars (CSTS) Program. Since 2000, Sacred Heart University has offered the CSTS Program, a multiyear interdisciplinary learning experience that combines study of the Catholic Church’s social teachings with a field placement in community service, culminating in a research project designed to address a particular social justice issue. Under this certificate, Catholic Social Thought Scholars take 10 credits in the following distribution:

Candidacy semester (*typically spring of Freshman year*):

CSP 100	CST Candidacy Seminar Curriculum year (<i>typically Sophomore year</i>):	1 credit
RS 259	Faith and Justice (prerequisite: RS 101)	3 credits
SO 201	Poverty and Inequality in the U.S. (prerequisite: SO 110)	3 credits

Capstone year (*typically Junior year*):

CSP 398	CST Capstone Project	3 credits
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The minor in Catholic Studies and both tracks in the certificate require the completion of a capstone project or a capstone paper. Catholic Studies students participate in a presentation ceremony held at the end of the academic year. All Catholic Studies candidates as well as interested faculty and staff are invited. During the ceremony Catholic Studies students present a short talk on their course of study and offer a summary of and reflection on their capstone project or paper, after which they are available for questions from the audience. At the close of the ceremony, each Catholic Studies student receives a certificate in honor of their accomplishment.

Course Descriptions

CSP 100 Catholic Social Thought

Candidacy Seminar **1 CR**

Candidates in the Catholic Social Thought Scholars Program are introduced to volunteer service, economic problems of the local community, and theological reflection.

CSP 101 Foundations of the Catholic

Intellectual Tradition **3CR**

A study of major ideas in the Catholic intellectual tradition—such as the continuity of faith and reason, sacramental imagination, incarnation, and the common good—through classical and contemporary texts. The study is interdisciplinary and

includes readings in theology, philosophy, literature, and the sciences.

CSP 398 Catholic Social Thought Capstone Project **3 CR**

Continuing to employ the methodologies of theological, ethical, and social reflection, the Catholic Social Thought Scholar will develop an independent research project designed to address a specific aspect of a social justice issue that has informed the scholar's study thus far. Requires participation in a seminar with other CST scholars at the capstone level.

Chemistry

The Chemistry program is committed to academic excellence and seeks to prepare students for industry, graduate school or professional school. This is achieved through a broad-based education that includes exposure to the major areas of Chemistry (analytical, biochemistry, environmental, inorganic, organic and physical) in both the classroom setting and in the laboratory. The required undergraduate research component of the degree provides an opportunity for the investigation of an original project.

The strengths of the department include small class sizes; extensive interaction with faculty; an award-winning student affiliate American Chemical Society chapter; instruction that uses the latest innovations in technology, teaching pedagogy and lab equipment; opportunities for community service; and the possibility for internship and co-op positions. The department also provides strong support for students majoring in other sciences as well as for non-science majors.

The Chemistry program offers a balanced curriculum that prepares students for graduate study in the various areas of chemistry and for employment in the chemical industries. Also, the Chemistry major, coupled with selected supporting courses, provides excellent preparation for the study of

medicine, dentistry and other health-related professions. To accomplish these objectives, the Chemistry program offers two degrees: the Bachelor of Science and the Bachelor of Arts. The student majoring in Chemistry with a BS degree can choose a Traditional, Biochemistry or Environmental concentration.

The Traditional concentration provides a curriculum with strong supportive courses in mathematics and physics. This program is recommended for graduate study in chemistry or as preparation for an industrial position.

The Biochemistry concentration is strongly recommended as preparation for a career in biochemistry, clinical chemistry or pharmaceutical chemistry. The program is also suitable for graduate study in biochemistry and pharmacology.

The Environmental concentration prepares the student for a career in the growing field of environmental chemistry. The student receives a strong chemistry background and takes appropriate courses in supporting disciplines. This concentration is appropriate for the student planning a career or graduate work in any of the allied environmental professions.

Faculty

Eid A. Alkhatib, Ph.D., *Associate Professor*
Joseph Audie, Ph.D., *Assistant Professor*
Linda Farber, Ph.D., *Assistant Professor*
Dhia A. Habboush, Ph.D., *Professor*
Penny A. Snetsinger, Ph.D., *Associate Professor*

Chemistry Laboratories

There are eight chemistry laboratories serving the needs of analytical chemistry, biochemistry, environmental chemistry, inorganic chemistry, organic chemistry and physical chemistry. These laboratories contain the following major equipment:

Spectroscopy

NMR 400 MHz + Autosampler; Flame and Graph-

ite Furnace Atomic Absorption Spectrometer + Autosampler; Raman Spectrometer; two FT-IR Spectrometers, Ultraviolet/Visible Spectrophotometers; Near Infrared Spectrometers; Spectrofluorometer.

Chromatography

Programmable Gas Chromatographs; HPLC system + Autosampler.

Electrochemistry

Polarographic Analyzer, Polarographic Analyzer/Stripping Voltmeter, SMDE Electrode, RDE Electrode and Electrogravimetric Analyzer.

GC-MS

GC, MSD, Flame Ionization Detector with EPC, Purge-and-Trap Liquid Sample Concentrator, Library of Spectra and Chemical Structure Database.

Other Equipment

Automatic Polarimeter; Magnetic Susceptibility Balance; Flame Photometer.

Computer Facilities

Three SGI Molecular Modeling Stations; Chemistry server providing licensed software for the use of students.

Major in Chemistry

Requirements for the BS Degree

The B.S. degree requires the completion of 38 major credits, plus 20 credits in the related fields of mathematics and physics for the Traditional concentration; and 20 credits in the related fields of biology, mathematics and physics for the Biochemistry concentrations.

Required Courses for All Concentrations

CH 151 General Chemistry I
CH 152 General Chemistry II
CH 153 General Chemistry Laboratory I
CH 154 General Chemistry Laboratory II
CH 221 Organic Chemistry I

CH 222 Organic Chemistry II
CH 223 Organic Chemistry Laboratory I
CH 224 Organic Chemistry Laboratory II
CH 252 Analytical Chemistry
CH 254 Analytical Chemistry Laboratory
CH 331 Physical Chemistry I
CH 333 Physical Chemistry Laboratory I
CH 351 Instrumental Analysis
CH 353 Instrumental Analysis Laboratory
and
CH 393 Undergraduate Project
or
CH 395 Undergraduate Research

Required Supporting Courses for All Concentrations

MA 140 Precalculus (waived on examination)
MA 151 Introductory Calculus
MA 152 Mathematical Analysis I
PY 151/153 Principles of Physics I/Physics Laboratory I
PY 152/154 Principles of Physics II/Physics Laboratory II

Additional Required Courses for Traditional Concentration

CH 332 Physical Chemistry II
CH 334 Physical Chemistry Laboratory II
CH 355 Advanced Inorganic Chemistry

Additional Required Supporting Course for Traditional Concentration

MA 253 Mathematical Analysis II

A minimum of 10–12 credits of chemistry electives should be taken to enhance career and graduate study opportunities. Electives should be selected in consultation with the student's faculty advisor.

Additional Required Courses for Biochemistry Concentration

CH 341 Biochemistry I
CH 342 Biochemistry II
CH 343 Biochemistry Laboratory I
CH 344 Biochemistry Laboratory II

Additional Required Supporting Course for Biochemistry Concentration

BI 111 Concepts in Biology I

In addition to the above courses, two to three chemistry electives and one to three computer science courses are strongly recommended. For pre-health professions students, BI 111 and BI 112 and two Biology courses at the 200 level or higher are recommended.

Requirements for the BA Degree in Chemistry

The B.A. degree requires the completion of 32 major credits plus 16 credits in the related fields of mathematics and physics.

CH 151 General Chemistry I
CH 152 General Chemistry II
CH 153 General Chemistry Laboratory I
CH 154 General Chemistry Laboratory II
CH 221 Organic Chemistry I
CH 222 Organic Chemistry II
CH 223 Organic Chemistry Laboratory I
CH 224 Organic Chemistry Laboratory II
CH 252 Analytical Chemistry
CH 254 Analytical Chemistry Laboratory
CH 331 Physical Chemistry I
CH 333 Physical Chemistry Laboratory I
CH 351 Instrumental Analysis
CH 353 Instrumental Analysis Laboratory

Chemistry elective (with department approval)

Required Supporting Courses

MA 151 Introductory Calculus
MA 152 Mathematical Analysis I
PY 151/153 Principles of Physics I/Physics Laboratory I
PY 152/154 Principles of Physics II/Physics Laboratory II

Minor in Chemistry

The minor in Chemistry requires the completion of the following 20 credits:

CH 151 General Chemistry I
 CH 152 General Chemistry II
 CH 153 General Chemistry Laboratory I
 CH 154 General Chemistry Laboratory II
 CH 221 Organic Chemistry I
 CH 222 Organic Chemistry II
 CH 223 Organic Chemistry Laboratory I
 CH 224 Organic Chemistry Laboratory II
 4 credits of Chemistry electives from 200- or 300-level courses

Associate in Arts

General Studies

Emphasis Requirements (33 credits)

CH 151 General Chemistry I
 CH 152 General Chemistry II
 CH 153 General Chemistry Laboratory I
 CH 154 General Chemistry Laboratory II
 CH 221 Organic Chemistry I
 CH 222 Organic Chemistry II
 CH 223 Organic Chemistry Laboratory I
 CH 224 Organic Chemistry Laboratory II
 CH 252 Analytical Chemistry
 CH 254 Analytical Chemistry Laboratory
 MA 151 Introductory Calculus
 PY 111 General Physics I
 PY 112 General Physics II
 PY 113 Physics Laboratory I
 PY 114 Physics Laboratory II
 or
 PY 151 Principles of Physics I
 PY 152 Principles of Physics II
 PY 153 Physics Laboratory I
 PY 154 Physics Laboratory II

Course Descriptions

†CH 015 **Chemistry for the Artist** 4 CR
 Explores chemistry of the materials used by the artist, chemistry of color, detection of art forgeries, art restoration, art hazards and safety precautions. Two 75-minute lectures and one two-hour discussion/laboratory per week. *Prerequisite:* Art major or minor or permission of instructor

†CH 020 **Drugs and Their Implications to Society** 3 CR

Different classes of drugs, both legitimate and illicit, and their metabolism in the human body are studied. Basic organic chemistry is introduced. Designed for non-science majors.

†CH 025 **Forensic Chemistry** 4 CR

Examines the principles of chemistry as related to preservation and analysis of physical evidence in criminal cases and the presentation of evidence in a court of law. Two 75-minute lectures and one three-hour laboratory or one two-hour discussion on alternate weeks. *Prerequisite:* Criminal Justice major or permission of instructor

†CH 030 **The Chemistry of Nutrition** 3 CR

Designed for non-science majors, this course explores the fundamentals of nutrition, elaborating on the essential chemistry needed for a basic understanding of the subject matter. The course examines how carbohydrates, lipids, proteins, minerals, vitamins and antioxidants are chemically related to nutrition. The course focuses also on nutrition throughout the various life stages and how this relates to one's environment.

†CH 035 **The Chemistry of Foods and Beverages** 3 CR

Evaluates the "definition" of a food, nutritional composition of foods and beverages, measurement of these nutrients and their basic activities in the human body. Some basic chemistry is covered, but only to provide some foundation for understanding the activity of nutrients in our diet. This course is intended for non-science majors.

†CH 040 **Chemistry, Society and the Environment** 3 CR

Explores the workings of chemistry as an experimental science in the context of the need for science literacy and of the things affecting the everyday world and the environment. Two 75-minute lectures per week.

CH 117 General, Organic and Biochemistry, An Overview**3 CR**

Designated for Nursing students, this course previews the principles of general chemistry, followed by a survey of organic chemistry. An overview of biochemistry and biomolecules and a study of metabolism and its regulation are presented. Two 75-minute class periods. *Prerequisite:* High school precollege chemistry

CH 119 General, Organic and Biochemistry Lab**1 CR**

Designated for Nursing students, this course consists of 11 to 12 lab periods. Three to four dry labs are embedded within the course as a guided inquiry-based approach to the curriculum and computer problem solving and molecular modeling using HyperChem. Experiments as well as dry labs are related to the subject matter covered in CH 117. A three-hour lab period. *Corequisite:* CH 117

†CH 151 General Chemistry I**3 CR**

Explores modern theories of atomic and molecular structure, chemical bonding and periodic relations, chemical reactions and stoichiometry, states of matter, and solutions. Three 50-minute lectures and one 50-minute discussion per week. *Prerequisite:* High school chemistry

†CH 152 General Chemistry II**3 CR**

Explores chemical thermodynamics; chemical kinetics; chemical, ionic and acid-base equilibria; electrochemistry; chemistry of the representative elements and transition elements; and nuclear reactions. Three 50-minute lectures and one 50-minute discussion per week. *Prerequisite:* CH 151

CH 153 General Chemistry Laboratory I**1 CR**

Illustrates basic concepts presented in CH 151. Experiments include qualitative analysis of cations and anions, chromatography, synthesis and FT-IR. One three-hour laboratory per week. *Corequisite:* CH 151

CH 154 General Chemistry Laboratory II**1 CR**

Illustrates basic concepts presented in CH 152. Experiments include quantitative analysis, equilibria, thermochemistry, spectrophotometry and GC-MS. One, three-hour laboratory per week. *Prerequisite:* CH 153; *Corequisite:* CH 152

CH 221 Organic Chemistry I**3 CR**

Covers hydrocarbons; stereochemistry; arenes; alkyl halides; nucleophilic substitution and elimination reactions; and IR, NMR, MS and UV spectroscopy in relation to structure determination. Two 75-minute lectures and one 50-minute discussion per week. *Prerequisite:* CH 152

CH 222 Organic Chemistry II**3 CR**

Covers aromaticity; electrophilic and nucleophilic aromatic substitution reactions; ethers, epoxides, carboxylic acids and their functional derivatives; aldehydes; ketones; amines; phenols; carbanion reactions; and alpha-beta unsaturated compounds. Emphasizes organic reaction mechanisms, organic synthesis and structure determination. Two 75-minute lectures and one 50-minute discussion per week. *Prerequisite:* CH 221

CH 223 Organic Chemistry Laboratory I**1 CR**

Covers basic techniques in organic chemistry: extraction, distillation, recrystallization; thin layer chromatography; gas chromatography and IR spectroscopy. Emphasizes techniques in organic synthesis. One three-hour laboratory per week. *Corequisite:* CH 221

CH 224 Organic Chemistry Laboratory II**1 CR**

Covers simple and multistep organic syntheses using a wide variety of organic reagents and some important functional group analyses. Employs spectroscopy and GC-MS for structure determination. One three-hour laboratory per week. *Prerequisite:* CH 223; *Corequisite:* CH 222

- CH 252 Analytical Chemistry** **3 CR**
Explores data analysis and classical methods of quantitative analysis. Focuses on the basics of analytical chemistry and the development and application of equilibrium models to all branches of classical analysis. Two 75-minute lectures per week. *Prerequisite:* CH 220 or CH 221
- CH 254 Analytical Chemistry Laboratory** **2 CR**
Provides laboratory experience in volumetric, gravimetric and instrumental methods. Experiments correlate with lecture material in CH 252 to help students understand the chemistry involved and develop proper analytical procedures and techniques. One six-hour laboratory per week. *Prerequisite:* CH 154; *Corequisite:* CH 252
- CH 331 Physical Chemistry I** **3 CR**
Explores thermodynamics, statistical thermodynamics, kinetic theory of gases, changes of state, solutions and kinetics. Two 75-minute lectures per week. *Prerequisites:* CH 152, CH 154, MA 151 and PY 152
- CH 332 Physical Chemistry II** **3 CR**
Explores advanced kinetics and quantum mechanics. Two 75-minute lectures per week. *Prerequisite:* CH 331; *co- or prerequisite:* MA 253 or permission of instructor
- CH 333 Physical Chemistry Laboratory I** **1 CR**
Explores various techniques used to apply the fundamental concepts of physical chemistry to real chemical systems. One three-hour laboratory per week. *Corequisite:* CH 331
- CH 334 Physical Chemistry Laboratory II** **1 CR**
Explores more advanced techniques of physical chemistry and applies theoretical concepts learned in CH 332 to real chemical systems. One three-hour laboratory per week. *Prerequisite:* CH 333; *Corequisite:* CH 332
- CH 341 Biochemistry I** **3 CR**
Covers chemical and physiological properties of carbohydrates, lipids, amino acids, proteins, enzymes and nucleic acids. Explores metabolic pathways and enzymology. Two 75-minute lectures per week. *Prerequisite:* CH 222
- CH 342 Biochemistry II** **3 CR**
Continues the study of metabolic pathways. Two 75-minute lectures per week. *Prerequisite:* CH 341
- CH 343 Biochemistry Laboratory I** **1 CR**
Investigates chemical and physical properties of biologically important compounds using chromatography, electrophoresis, enzyme assays and various techniques for isolation and identification of biochemicals and enzymes. One three-hour laboratory per week. *Corequisite:* CH 341
- CH 344 Biochemistry Laboratory II** **1 CR**
Examines isolation and purification of lipids, proteins, enzymes and nucleic acids from biological materials employing electrophoresis, chromatography, spectrophotometry and fluorometry. One three-hour laboratory per week. *Corequisite:* CH 342
- CH 351 Instrumental Analysis** **3 CR**
Explores theory and practice of instrumental methods of analysis; spectrophotometric, electro-analytical and chromatographic methods of separation and quantification. Two 75-minute lectures per week. *Prerequisites:* CH 252 and CH 331 or permission of instructor
- CH 353 Instrumental Analysis Laboratory** **1 CR**
Provides hands-on experience with modern analytical instrumentation, including UV/visible infrared, atomic absorption spectrophotometry, potentiometric and ion selective electrode methods, electrodeposition, gas chromatography and mass spectrometry. One three-hour laboratory per week. *Corequisite:* CH 351

CH 355 Advanced Inorganic Chemistry**4 CR**

Explores physical and chemical properties of the elements and their compounds, periodic relations, theories of atomic and molecular structures and molecular symmetry with emphasis on coordination chemistry. Two 100-minute lectures per week. *Prerequisite:* CH 331

CH 361 Environmental Chemistry**3 CR**

Explores chemical aspects of the human environment and sources, reactions, transport, effects and fates of chemical species in water, soil and living environments and effects of technology thereon. Two 75-minute lectures per week. *Prerequisite:* CH 222

CH 363 Hazardous Waste Management**2 CR**

Explores types, sources, treatment and disposal of hazardous and solid wastes; conservation and reuse of material; economics of waste treatment, disposal and reuse. *Prerequisite:* CH 221

CH 365 Environmental Sampling and Analysis**3 CR**

Laboratory and field work including sampling of surface and groundwater using EPA-approved methods for analyzing water, wastewater, soil and sediments. Also covers QA/QC plans and statistics in chemical analysis and sampling protocols. One 100-minute lecture and one three-hour laboratory per week. *Prerequisite:* CH 361

CH 393 Undergraduate Project**3 CR**

A special project may be carried out under the advisement of a Chemistry faculty member. *Prerequisite:* Permission of project advisor

CH 395 Undergraduate Research**3 CR**

Research may be carried out under supervision of a Chemistry faculty member. *Prerequisite:* Permission of research advisor

CH 399 Special Topics in Chemistry 2–3 CR

Designates new or occasional courses that may or may not become part of the department's

permanent offerings. Consult the current course schedule for available topics.

Communication and Technology Studies

An interdisciplinary program, the major in Communication and Technology Studies (CTS) is directed to students who wish to become leaders in creating the communication environment of the future, to those interested in the broader implications of communication technology, understanding the theory as well as the practice, and adapting to a changing world.

In response to the need for leadership in technology, CTS focuses on the macro social and ethical issues of mediated communication, such as policy making, data information privacy, intellectual property, moral agency and the notion of the community as global. At the heart of the major is the study of the social, ethical and historical implications of computer technology. Students study a core of interdisciplinary courses that focus on communication technology, including computer technology, media studies, oral and written communication, history, sociology, psychology, philosophy and art.

Faculty

James Castonguay, Ph.D., *Associate Professor*

Gregory Golda, M.Ed., *Clinical Instructor*

Frances Grodzinsky, Ph.D., *Professor*

Robert McCloud, Ed.D., *Associate Professor*

Andrew Miller, Ph.D., *Assistant Professor*

Major in Communication and Technology Studies

The major in CTS consists of 42 credit hours, including 12 required courses and 6 elective credits. For Communication Technology majors CT 101 is a prerequisite for all other courses in the major.

Required Courses

CS 100 Introduction to Information Technology

CS 101 Web Design and Visual Tools
CS 102 Multimedia for Non-Majors
CS 232 Human Computer Interaction
CS 319 Computer Ethics: Society and Technology
CT 101 Foundations of Communication Tech Era
CT 118 Technical Communications I
CT 218 Technical Communications II
CT 399 Capstone in Communication Technology
MS 280 Digital Culture
MS 287 Media and Democracy
MS 288 Democratic Technologies

Elective Courses

Students will take any two of the following:

AR 211 Graphic Design I
AR 214 Computer Design Basics
CA 231 Interpersonal Communication
CA 299 Special Topics in Oral Communication
EN 207 History and Structure of the English Language
HI 276 The Rise of Modern Science
MS 195 History of Broadcasting
MS 200 Mass Media: Specific Subject
MS 213 Video Production
MS 215-315 Digital Film Production I, II
MS 293 Alternative Media
MS 297 Public Relations/Advertising: An Overview
MS 298 Public Relations/Advertising: Practical Applications
MS 299 Special Topics in Media Studies
MS 300 Special Topics in Media Production
MS 395 Multimedia Field Production
PH 256 The Philosophy of Technology
PS 299 Special Topics in Psychology
SO 245 The Contemporary World Social System
SO 257 Technology, Culture and Society

Course Descriptions

CS 100 Introduction to Information Technology 3 CR

An introduction to computing and data processing for non-computer science majors. This course is half theory and half hands-on application using Microsoft Office. It includes word processing,

spreadsheets, databases and some work with the Internet. This course provides the knowledge and understanding necessary to communicate effectively in the personal computing environment of business today.

CS 101 Web Design and Visual Tools 3 CR

This course aids in the understanding of the design and production of web sites. It discusses what design elements go into web page development. Students browse sites and identify good design elements. They construct their own web page early on and allow it to evolve throughout the semester. *Prerequisite:* CS 100 or permission of department chair

CS 102 Multimedia for Non-Majors 3 CR

This course aids the non-programmer in the understanding of multimedia authoring, incorporating text, graphics, sound and video. It discusses design and planning elements that go into multimedia development. Students use Director and some of the scripting language, Lingo, to choreograph media objects onto a stage using a score. *Prerequisite:* CS 100 or permission of department chair

CS 232 Human Computer Interaction 3 CR

Focuses on how developers and designers of computer systems can produce computers that are beneficial to the user and easy to use. Human-computer interaction is the intersection of human behavior and computer technology. In understanding human behavior, developers can evaluate what makes the computer easy to learn and use. The course examines the ways people interact with computers and how to incorporate this knowledge into the design and evaluation of new technology. *Prerequisite:* CS 100 or CS 112

CS 319 Computer Ethics: Society and Technology 3 CR

This course focuses on the ethical and social issues associated with computer technology such as privacy, theft, intellectual property, accountability, hacking, and cracking, codes of ethics and

professional responsibility. Students also examine philosophers such as Aristotle, Kant and Mill, as well as Virtue ethicists. This course is a Senior-level capstone course. It emphasizes both oral and written communication as students discuss and examine their own ethical beliefs. *Prerequisites:* Junior/Senior status, PH 101, RS 101, or permission of instructor

CT 101 Foundations of Communication**Tech Era** **3 CR**

Explores the intersections and divergences of various technologies of mediated communication, from traditional inscription (print) to film, radio, television and electronic media. Emphasizes student inquiry and encourages web-based study and digitally-enhanced final portfolios. *Prerequisite:* Permission of CT coordinator

CT 118 Technical Communications I **3 CR**

Introduces the most important elements of communications in the professional world of technology and newer media. Students study common types of reports and learn fundamental techniques for preparing reports, final copy, and web page content. *Prerequisites:* EN 110, CT 101

CT 218 Technical Communications II **3 CR**

Develops skills in research techniques and increases proficiency in technical communications by focusing on all phases of the preparation of a communication technology-related project. Emphasizes the acquisition of the ability to “translate” technical information to non-specialists. *Prerequisite:* CT 118

CT 399 Capstone in Communication**Technology** **3 CR**

Culminating course for the CT major. Students integrate what they have learned in the major in an experiential setting. Must be accomplished under guidance of a faculty director and in consultation with CT Coordinator. *Prerequisite:* Senior standing

MS 280 Digital Culture **3 CR**

Considers digital and technologically mediated

environments as “mass media” in the tradition of film, radio or television. Using a variety of approaches, including historical, sociological, economic, technological, cultural and aesthetic, this course looks at questions such as how does the Internet codify reality? How are communities both created and thwarted? What are the characteristics of the global media culture? Readings, screenings and written reports required.

Prerequisite: MS 101 or CT 101**MS 287 Media and Democracy** **3 CR**

Examines the relationships between the mass media (film, television, newspapers and the Internet), the public and politics. Historical case studies analyze from ethical, economic, social, historical, aesthetic and technological perspectives how the media provide (or do not provide) a place through which people express their views as citizens in a democracy. Current media examples are also investigated. Readings, screenings and written reports required. *Prerequisite:* MS 101 or CT 101

MS 288 Democratic Technologies **3 CR**

Focuses on the creative use of technologies available to the American consumer. Instruction in alternative audio and visual production encourages students to express themselves and distribute media content using available consumer and public access technologies. Laptop computers are required to digitize audio and visual projects and for Internet research. *Prerequisite:* MS 101 or CT 101

AR 211 Graphic Design I **3 CR**

An introduction to classical and modern typefaces, the mechanics of type composition and the fundamentals of layout. Consideration is given to the selection of typefaces that enhance thought and idea. *Prerequisite:* AR 214

AR 214 Computer Design Basics **3 CR**

An introduction and exploration of the three primary graphic design programs: Adobe

Photoshop, Adobe Illustrator and Quark Express. Only the most basic design concepts are explored in assignments, ensuring a basic understanding of the technological tools of design. *Prerequisite:* AR 110

CA 231 Interpersonal Communication 3 CR

Current research, student-designed projects and communication “games” provide opportunities for explorations of breakdowns, barriers and bridges in interpersonal contexts. Service learning may be required. *Prerequisite:* CA 101

CA 299 Special Topics in Oral Communication 3 CR

Designates new or occasional courses, offered as an experimental alternative to existing courses, which may or may not become part of the department’s permanent offerings. Consult the current schedule for current topics and prerequisites.

EN 207 History and Structure of the English Language 3 CR

A survey of the major changes in structure, vocabulary and uses of the language from the earliest times to the present. Explores important findings of modern linguistic scholarship. Required for secondary education. *Prerequisite:* EN 110

HI 276 The Rise of Modern Science 3 CR

Starting with their origins in the Scientific Revolution of the 16th century, this course presents the major scientific developments in Western life and their impact on society. Topics include the Copernican Universe, Darwinian biology and several major scientific advancements in the 20th century.

MS 293 Alternative Media 3 CR

Explores nonmainstream and noncommercial media—mechanical, electronic and digital—to understand their content, form and roles they play in our culture. The course looks at the aesthetic theories and/or social motivations, implicit or explicit in the alternative culture and in individual

works. Readings, screenings and written reports required.

PH 256 The Philosophy of Technology 3 CR

Representative views of the social role of technology. Two fundamental questions are addressed. The extent of technology’s impact on social institutions and individual lives. And, to what degree is this impact beneficial or harmful? *Prerequisite:* PH 101

PS 299 Special Topics in Psychology 3 CR

Designates new or occasional courses that may or may not become part of the department’s permanent offerings. Courses capitalize on a timely topic, a faculty member’s particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student’s transcript. Consult the current course schedule for available topics and current prerequisites.

SO 245 The Contemporary World Social System 3 CR

Emphasizes the emerging regional subsystems of the world social system, and the consequences of this change on the processes of interaction among these subsystems and their interaction with the developing countries. *Prerequisite:* SO 110

SO 257 Technology, Culture and Society 3 CR

With the increasing saturation of biotechnology, cybertechnology, communication/media technology, etc., in the world, it is prudent to study the overall relationship of technology to culture and society and to consider the social impact of the next wave. While identifying serious problems and risks, the course also explores the proposition that technology can be shaped and guided to be a positive force. *Prerequisite:* SO 110

Communications

The undergraduate Communications concentration of the English major is designed to provide students with an opportunity to acquire an understanding of theory and practice of the process and impact of communications in a variety of social contexts.

In addition to acquiring a broad awareness of the role of communications in society, students may study interpersonal communications, public speaking, oral interpretation of literature and nonverbal communications, and may enhance these skills further through service learning and/or internship placements.

Students can utilize their learning in the fields of education, telecommunications, journalism, business, advertising, public relations, personnel, politics, medicine and law.

Course Descriptions

CA 101 Effective Communication 3 CR

Explores and analyzes the communication process through instruction and practice in individual and group presentations and oral interpretation of literature. Laptop required. Does not count toward satisfying English minor or Communications concentration requirements. Students must pass this course with a grade of C or better.

CA 115 American Sign Language I 3 CR

An introduction to signing at Level 1, basic vocabulary through finger spelling, alphabet, numbers and colors. Introduction to the culture of the deaf. Does not count toward satisfying English minor or Communications concentration requirements.

CA 141 Introduction to Theater 3 CR

A survey course introducing theater as a form of literature, a performing art and a profession. Students are required to act in or work behind the scenes on a departmental production and will attend performances of plays at professional, university and/or community theaters. Several plays

are read and discussed. Short papers required.

CA 171 Acting I 3 CR

An exploration of the actor's "instrument," body, voice, thoughts and feelings. Basic physical and vocal work including exercises in relaxation, flexibility, concentration, alignment, centering, breathing and sound. Theater games designed to free the actor's imagination are performed to develop improvisatory skills. *Prerequisite:* CA 101 or permission of the department chairperson

CA 215 American Sign Language II 3 CR

An extension of CA 115. Signing at Level 2. Course deals with describing the family and the home. Grammar and classifiers are studied. Does not count toward satisfying English minor or Communications concentration requirements. *Prerequisite:* CA 115

CA/BU 221 Business Communications 3 CR

Corporate business-focused oral and written communication skills are analyzed and practiced. Individual and group presentations, memos, letters, reports, resumes, and interview preparation are included. Laptop required. Does not count toward satisfying major, minor or concentration requirements. *Prerequisites:* EN 110 and CA 101

CA 231 Interpersonal Communication 3 CR

Current research, student-designed projects and communication "games" provide opportunities for exploration of breakdowns, barriers and bridges in interpersonal contexts. Service learning may be required. *Prerequisite:* CA101

CA 261 Public Speaking 3 CR

Organization and delivery of extemporaneous, informative and persuasive speeches are stressed. Audience analysis, context and using support materials in diverse speaking situations are studied. Service learning may be required. Laptop required. *Prerequisite:* CA 101

CA 270 Nonverbal Communication 3 CR

Analyzes how we consciously and unconsciously communicate without words. Research and stu-

dent-designed projects examine proxemics, gesture, touch, signs, and expressions. *Prerequisite:* CA 101

CA 271 Acting II **3 CR**

A continuation of the work begun in CA 171 and its application to the process of scene study and the building of characters. Focus is on script analysis, rehearsal techniques, and selected special problems such as Shakespeare, acting styles, and auditioning. *Prerequisite:* CA 171 or permission of the department chairperson

†CA 280 Oral Interpretation of Literature **3 CR**

Literature is “recreated” and analyzed through a use of voice and body as well as through study of theories of criticism and aesthetics. Public performances required. Service learning may be required. *Prerequisite:* CA 101

CA 299 Special Topics in Oral Communication **3 CR**

Designates new or occasional courses, offered as an experimental alternative to existing courses, which may or may not become part of the department’s permanent offerings. Consult the current schedule for current topics and prerequisites.

CA 321 Communication Theory **3 CR**

Explores communication theory and practice while building upon composition and presentation skills mastered in CA 101. Provides guided experimentation. Laptop required. *Prerequisite:* CA 101

CA 375 Theater Practicum **3 CR**

This course offers students an opportunity to participate in an on-stage production sponsored by the Department of English and Modern Foreign Languages each spring. Students may receive credit for this course three times. Given on a pass/fail basis. *Prerequisite:* Permission of instructor

CA 380 Play Directing **3 CR**

Covers a range of directorial skills, including play

analysis and concept, blocking, casting, scheduling, and working with actors. *Prerequisites:* CA 141, CA 171 or permission of the department chairperson

CA 399 Special Topics in Communications or Theater **3 CR**

Content varies each semester course is given.

Computer Science and Information Technology

The computer science field has demonstrated dramatic growth and technological development within the last decade. The 21st century is heralding the emergence of nanotechnology, ubiquitous computing and wireless networking. The Computer Science and Information Technology (CS/IT) Department is responding to these technological challenges by offering a dynamic course of study that is responsive to the ever-changing field of computer technology. (CS/IT) curriculum has two concentrations: Science and Information Technology. The Science option is geared to those students with strong mathematics and the desire to participate in the research and development side of computer science. The Information Technology option is for those students interested in interface, multimedia and system design for business applications.

Faculty

Allana Adams, M.S., *Instructor*
 Frances Grodzinsky, Ph.D., *Professor*
 Sandra Honda Adams, M.S., *Associate Professor*
 Efim Kinber, Ph.D., *Professor*
 Robert McCloud, Ed.D., *Associate Professor*
 Keri Matthews, M.S., *Instructor*
 Domenick J. Pinto, M.A., M.A., M.S.,
Associate Professor

Computer Science Facilities

There are two state of the art computing labs ded-

icated to computer science courses. These contain the latest flat screen Pentium 4 computers with DVD, CD-R/W drives. In addition the conference room of the CS/IT department serves as a mini-lab used exclusively by CS/IT majors for projects, homework and tutoring and is equipped with the same state of the art equipment. There is also a Networking/Unix lab equipped with 15 Linux machines and a variety of Cisco routers. This closed LAN laboratory is used for networking and Unix shell programming courses and is open 24 hours a day, seven days a week for those students. All labs are on a 3-year replacement cycle.

Software available in the labs include:

- Microsoft Office
- Macromedia Director MX 2004
- Macromedia Flash 8
- Macromedia Fireworks 8
- Macromedia Dreamweaver 8
- Macromedia Authorware 7
- V.B. Net 2005
- Visual C++ 2005
 - Visual C# 2005
 - Visual Studio 2005
- Borland JBuilder
 - Sony Sound Forge 8
 - Adobe Photoshop CS

Major in Computer Science

The major in Computer Science with a concentration in Computer Science requires the completion of 48 credits. The major in Computer Science with a concentration in Information Technology requires 45 credits not including supporting courses.

Required Courses for Both Concentrations

CS 110 Introduction to Computer Science
 CS 111 Introduction to Structured Programming
 CS 112 Data Structures
 CS 113 Discrete Structures
 CS 215 Computer Systems Organization with Assembler

CS 311 Database Design
 CS 312 Software Engineering
 CS 318 Project Course
 CS 319 Computer Ethics
 CS 339 Networking and Data Communication

Required Courses for Computer Science Concentration

CS 241 Advanced Programming Concepts Using “C”
 CS 242 Introduction to Graphics Using JAVA
 CS 341 Analysis of Algorithms
 CS 348 Programming in Unix
 CS 349 Operating Systems
 One Computer Science elective

Required Supporting Courses for Computer Science Concentration

MA 151 Introductory Calculus and Math 152 Mathematical Analysis I should be taken as part of the required Baccalaureate core.
 MA 261 Linear Algebra
 MA 331 Mathematical Probability and Statistics I

Required Courses for Information Technology Concentration

Math 109 Mathematics for Decision Making and Math 110 Calculus for Decision Making should be taken as part of the required Baccalaureate core.
 CS 232 Human–Computer Interaction
 CS 233 Visual Basic
 CS 331 Multimedia Applications
 CS 338 Systems Analysis and Design
 One Computer Science elective

Required Supporting Courses for Information Technology Concentration

BU 103 Business: Its Nature and Environment
 or
 BU 201 Organization Management
 MA 131 Statistics for Decision Making

Network Security Concentration for Computer Science and Information Technology Tracks

Courses Required for Both Tracks

CS 111 Introduction to Structured Programming
CS 112 Data Structures
CS 113 Discrete Structures
CS 215 Computer Systems Organization with
Assembler
CS 311 Database Design
CS 312 Software Engineering
CS 318 Project Course
CS 319 Computer Ethics
CS 339 Networking and Data Communications

Required Courses for Computer Science Tracks

CS 241 Advanced Programming Concepts Using
“C”
CS 242 Introduction to Graphics Using Java
CS 341 Analysis of Algorithms
CS 349 Operating Systems
CS 367 Managing, Securing, and Designing
Modern Networks
CS 368 Hands-on Network Security

Supporting Courses for Computer Science Tracks

MA 151 Calculus I
MA 152 Calculus II
MA 261 Linear Algebra
MA 331 Probability and Statistics I

Required Courses for Information Technology Tracks

CS 232 Human–Computer Interaction
CS 233 Visual Basic
CS 338 Systems Analysis and Design
CS 367 Managing, Securing, and Designing
Modern Networks
CS 368 Hands-on Network Security

Required Supporting Courses for Information Technology Concentration

BU 103 Business: Its Nature and Environment
or
BU 201 Organization Management
MA 109 Mathematics for Decision Making
MA 110 Calculus for Decision Making
MA 131 Statistics for Decision Making

Minor in Computer Science

CS 111 Introduction to Structured Programming
CS 112 Data Structures
CS 113 Discrete Structures
CS 215 Computer Systems Organization with
Assembler
CS 242 Introduction to Graphics Using JAVA
CS 311 Database Design
CS 312 Software Engineering
One Computer Science elective

Minor in Information Technology

CS 111 Introduction to Structured Programming
CS 112 Data Structures
CS 113 Discrete Structures
CS 215 Computer Systems Organization with
Assembler
CS 233 Visual Basic
CS 311 Database Design
CS 312 Software Engineering
One Computer Science elective

Associate’s Degree in Computer Science

The Associate of Science degree in Computer Science offers two areas of emphasis: Computer Science and Information Technology. Both emphases require the completion of 60 credits. The program is designed for high school graduates who intend to make a career in the field of Computer Science and college graduates who want to obtain a sufficient level of computer experience.

The Computer Science emphasis is intended for college students majoring in mathematics or the sciences who wish to supplement their major in order to increase their employment opportunities after graduation.

The Information Technology emphasis is intended for high school graduates who wish to make a career in information technology and for business students or individuals working with computers who want a formal education in order to advance their careers.

Courses Required for Both Concentrations

CS 111 Introduction to Structured Programming
CS 112 Data Structures
CS 113 Discrete Structures
CS 215 Computer Systems Organization with Assembler

Required Core Courses for Both Concentrations

EN 110 Academic Writing
CA 101 Effective Communication
Eight Liberal Arts electives

Required Courses for Computer Science Concentration

CS 241 Advanced Programming Concepts Using “C”
CS 242 Introduction to Graphics Using Java
One Computer Science and Information Technology elective

Required Supporting Courses for Computer Science Concentration

MA 151 Calculus I
MA 152 Calculus II
MA 261 Linear Algebra

Required Courses for Information Technology Concentration

CS 232 Human–Computer Interaction
CS 233 Visual Basic
One Computer Science and Information Technology elective

Required Supporting Courses for Information Technology Concentration

MA 109 Mathematics for Decision Making
MA 110 Calculus for Decision Making
BU 103 Business: Its Nature and Environment
or
BU 201 Organization Management

Certificate Program in Computer Science and Information Technology

The Computer Science Certificate program provides a foundation for scientific use of computers and information technology applications. The student can earn a certificate by completing six courses from either the Computer Science or Information Technology options, provided that the prerequisites are met.

Required Courses for Both Concentrations

CS 111 Introduction to Structured Programming
CS 112 Data Structures

Courses for Computer Science Concentration

CS 241 Advanced Programming Concepts Using “C”
CS 242 Introduction to Graphics Using Java
CS 312 Software Engineering
CS 341 Analysis of Algorithms

Required Courses for Information Technology Concentration

CS 101 Web Design and Visual Tools
CS 102 Multimedia for Non-Majors
CS 232 Human–Computer Interaction
CS 233 Visual Basic

Course Descriptions

CS 100 Introduction to Information Technology 3 CR

An introduction to computing and data processing for non-computer science majors. This course is half theory and half hands-on application using Microsoft Office. It includes word processing, spreadsheets, databases, presentation software, and using the Internet as a research tool effectively. This course provides the knowledge and understanding necessary to communicate effectively in the personal computing environment of business today. Non-majors only

CS 101 Web Design and Visual Tools 3 CR

This course aids in the understanding of the design and production of web sites. It discusses what design elements go into web page development. Students browse sites and identify good design elements. They construct their own web page early on and allow it to evolve throughout the semester. *Prerequisite:* CS 100 or permission of department chair. Non-majors only.

CS 102 Multimedia for Non-Majors 3 CR

This course aids the non-programmer in the understanding of multimedia authoring, incorporating text, graphics, sound and video. It discusses design and planning elements that go into multimedia development. Students use Director and/or Flash and some of the scripting language, Lingo (or action scripting), to choreograph media objects onto a stage using a score. *Prerequisite:* CS 100 or permission of department chair

CS 106 Introduction to Information Technology for Business

Administration 3 CR

An introduction to computing and data processing for non-Computer Science majors. This course is half theory and half hands-on application using Microsoft Office. It includes, spreadsheets, databases, and presentation software, and provides the knowledge and understanding necessary to communicate effectively in the personal computing environment of business today. For Business Administration majors.

CS 110 Introduction to Computer Science 3 CR

An introduction to programming logic, using a suitable introductory programming language. This course presents an overview of major programming concepts (selection, loops, input-output operations, procedures and functions) and serves as an introduction to the Unix operating system and Unix-based editors. For computer science majors. *Prerequisite:* Computer Science major or permission of department chair

CS 111 Introduction to Structured Programming 3 CR

A first course in programming using a structured programming language. Topics include iteration, selection, procedures, functions and arrays with the use of flowcharts and modules. Presents applications in both business and scientific areas. *Prerequisite:* CS 110 or permission of department chair

CS 112 Data Structures 3 CR

A continuation of CS 111 using a structured programming language to implement multidimensional arrays, stacks, queues, linked lists and binary trees. Also introduces recursion, pointers, and generic packaging. *Prerequisite:* CS 111

CS 113 Discrete Structures 3 CR

Presents mathematical concepts for computer science, including sets, relations and functions;

partitions; order relations; countability; permutations and combinations; probability; recurrences; big-Oh notation; elements of abstract algebra such as groups, rings and Boolean algebras. *Prerequisite:* MA 006

CS 215 Computer Systems Organization with Assembler 3 CR

This course presents an overview of computer architecture and computer organization as they relate to computer science. Topics include computer components, interconnection structures, internal memory, instruction sets, number representation in computers, parallel processing and an elementary introduction to assembly programming. *Prerequisite:* CS 112

CS 232 Human–Computer Interaction 3 CR

Focuses on how developers and designers of computer systems can produce computers that are beneficial to the user and easy to use. Human-computer interaction is the intersection of human behavior and computer technology. In understanding human behavior, developers can evaluate what makes the computer easy to learn and use. The course examines the ways people interact with computers and how to incorporate this knowledge into the design and evaluation of new technology. *Prerequisite:* CS 100 or CS 112

CS 233 Visual Basic 3 CR

Explores the use of controls and tools, forms, menus, frames, file browsers and buttons, creating windows interfaces for databases, linking to Windows and Excel, writing and debugging Visual Basic code. Uses VB.net 2005. *Prerequisite:* CS 112

CS 241 Advanced Programming Concepts Using “C” 3 CR

Covers advanced programming techniques in “C,” using pointers, data structures and recursion. Emphasis on algorithmic approach and use of mathematical functions. *Prerequisite:* CS 112

CS 242 Introduction to Graphics Using JAVA 3 CR

Introduces concepts of classes and main JAVA graphics tools. Topics include: structure of JAVA system, introduction to classes, dialog boxes, data types, introduction to applets, HTML files, graphics class and its methods, JAVA widgets, event-driven programming, class containers, and layouts. *Prerequisites:* CS 112 and CS 113

CS 261 Programming for the Web 3 CR

An introduction to Web-enabling technologies, this course addresses web design with HTML code, Cascading Style Sheets and Layers, Photoshop and Java script. Problems and trends faced by webmasters today are also discussed. *Prerequisites:* CS 111 and Sophomore status

CS 299 Special Topics I 3 CR

Various courses of current interest to the Computer Science major are introduced from time to time. *Prerequisite:* Sophomore status

CS 311 Database Design 3 CR

Explores fundamentals of database design theory and applications. Includes data models with emphasis on the relational model. *Prerequisites:* CS 112 and CS 215

CS 312 Software Engineering 3 CR

The study of software development methodology, both procedural and object oriented. This is a project-based design course where teams develop software projects from requirements analysis through detailed design and testing. Umbrella activities such as configuration management, quality assurance, writing documentation, ethics and costing are covered. Automated software design tools are used and oral and written presentations required. *Prerequisite:* CS 311

CS 318 Project Course 3 CR

It is strongly recommended that students sign up for this course one semester before the graduating semester, because of the independent

study/work involved. Students work with a faculty member in the department to define and implement an acceptable project. The student is required to write a report and is to make a public presentation of the work. *Prerequisites:* Senior status and permission from Computer Science Department

CS 319 Computer Ethics 3 CR

This course focuses on the ethical and social issues associated with computer technology such as privacy, theft, intellectual property, accountability, hacking and cracking, codes of ethics and professional responsibility. Students also examine philosophers such as Aristotle, Kant and Mill, as well as Virtue ethicists. This course is a Senior-level capstone course. It emphasizes both oral and written communication as students discuss and examine their own ethical beliefs. *Prerequisites:* Junior/Senior status, PH 101, RS 101 or permission of instructor

CS 331 Multimedia Applications 3 CR

This course aids in the understanding of multimedia authoring, incorporating text, graphics, sound and video. It discusses design and planning elements that go into multimedia development. Students use Director and its scripting language, Lingo, to choreograph media objects onto a stage using a score. It is designed for students with programming experience. *Prerequisite:* CS 112

CS 338 Systems Analysis and Design 3 CR

An advanced design course that studies the application of computer solutions to business problems. This is a project-based course where teams set milestones and present object-oriented analysis and design of their solutions. Oral and written presentations are required and automated software tools are used. *Prerequisite:* CS 312

CS 339 Networking and Data Communication 3 CR

The study of networks and data communication

concentrating on the first four levels of the OSI model including physical, datalink, network and transport. This is a laboratory-based course that includes projects implemented in the SUN Networking Laboratory. Topics such as LANs, WANs and MANs; hardware, software, protocols, routing, circuit-switching and packet-switching networks, analog and digital systems, compression and error handling are among those studied. Students use a simulation package to design and simulate networks. *Prerequisites:* CS 338 or CS 341 and Senior status

CS 341 Analysis of Algorithms 3 CR

Emphasis on theory and techniques underlying the analysis of algorithms including big/little-Oh, graphs and networks, searching, sorting, recursion and classical algorithms. *Prerequisites:* CS 112 and MA 151

CS 348 Programming in Unix 3 CR

Discusses main issues of Unix OS programming and administration. Explores the popular Unix text editor Emacs, Unix file system, process manipulation, regular expressions and their uses, filters, and system administration and security. *Prerequisites:* CS 241 and CS 341

CS 349 Operating Systems 3 CR

Examines resource management, including memory allocation and management, virtual memory, process scheduling, protection, deadlock and concurrency, case studies and multiprocessing. *Prerequisite:* CS 341

CS 366 Object-Oriented Programming (OOP) in C++ 3 CR

Focuses on principles of OOP, including encapsulation, objects and classes, inheritance and polymorphism. This course covers the differences between C and C++ and includes a detailed discussion of C++ features such as classes, constructors, destructors, friends, exceptions, etc. *Prerequisite:* CS 241

CS 367 Managing, Securing, and Designing Modern Networks 3 CR

Focuses on wireless and mobile networks, multi-media networking, network management infrastructure, configuration management, network security, cryptography, authentication, access controls, network design (OpNet), designing network performance. *Prerequisite:* CS 339

CS 368 Hands-on Network Security 3 CR

Focuses on networking security topics, firewalls (using Linux), packet filters, NAT and PAT, public key infrastructure (using Microsoft Certification Server), encryption algorithms, decrypting passwords, dictionary decryption, brute force decryption, certificate servers, vulnerability assessment, identifying security holes, forensics, Layer 5 vulnerabilities, packet monitoring. *Prerequisite:* CS 367

Criminal Justice

The Criminal Justice program provides students with a comprehensive understanding of the criminal justice system, which consists of public and private police, courts and corrections.

The course of study enables the graduate to pursue a career in law enforcement, correctional security and counseling, probation, parole, court administration, personnel management in various criminal justice agencies or private security. The program also prepares students to enter law school or graduate school in the social and behavioral sciences. It provides an excellent opportunity for criminal justice personnel, and community and junior college graduates, to obtain a bachelor's degree in Criminal Justice. Applicants who have completed the municipal, state or FBI training may apply for advanced standing.

Faculty

Pearl Jacobs, Ph.D., *Associate Professor*

Josh Klein, Ph.D., *Assistant Professor*

James E. McCabe, Ph.D., *Assistant Professor*

Patrick Morris, M.P.A., *Instructor*

Matthew Semel, J.D., *Assistant Professor*

Dennis Stevens, Ph.D., *Associate Professor*

Major in Criminal Justice

The major in Criminal Justice requires the completion of 36 credits of Criminal Justice courses and 6 credits of required supporting courses.

Required Courses

CJ 101 Introduction to Criminal Justice

CJ 120 Crime and Criminal Behavior

CJ 201 Criminal Law

CJ 253 Criminal Justice Ethics

CJ 381 Research Methods in Criminal Justice

Choose 3 of the following:

CJ 200 Constitutional Law

CJ 220 Introduction to Corrections

CJ 251 Criminal Courts and Discretion

CJ 270 Issues and Problems in Criminal Justice

Elective Course Requirements

12 credits of Criminal Justice electives are required for the major. Elective course selections are made in consultation with an advisor.

Corrections Courses

CJ 213 Probation and Parole

CJ 216 Juvenile Justice

CJ 220 Introduction to Corrections

CJ 223 Interviewing and Counseling

CJ 390 Internship

Law Enforcement Courses

CJ 230 Introduction to Law Enforcement

CJ 231 Criminal Investigation

CJ 232 Police–Community Relations

CJ 235 Law of Evidence

CJ 239 Police Administration and Supervision

CJ 390 Internship

Security Courses

CJ 240 Introduction to Security

CJ 243 Private Security Law

CJ 247 Security Administration
CJ 248 Introduction to Fraud Examination
CJ 390 Internship

Required Supporting Courses

CS 100 Introduction to Information Technology
MA 131 Statistics for Decision Making

Minor in Criminal Justice

The minor in Criminal Justice requires the completion of the following 18 credits

Required Courses in the Minor

CJ 101 Introduction to Criminal Justice
CJ 120 Crime and Criminal Behavior
Four Criminal Justice electives

Course Descriptions

CJ 101 Introduction to Criminal Justice 3 CR

Provides an overview of the criminal justice system and its processes.

CJ 120 Crime and Criminal Behavior 3 CR

This course uses an interdisciplinary perspective to examine the causes, measurement, patterns and the effects of socioeconomic status on crime and criminal behavior.

CJ 200 American Constitutional Law 3 CR

Focuses on the development of the Constitution through interpretations of the U.S. Supreme Court. A study of civil rights and civil liberties. *Prerequisite:* CJ 101

CJ 201 Criminal Law 3 CR

Substantive aspects of criminal law with emphasis on statutory criminal law. Examines the purpose and goals of criminal law and the historical development of its basic concepts. *Prerequisite:* CJ 101

CJ 211 Women and the Law 3 CR

Traces the development of sex discrimination as a legal and social phenomenon. The law is covered in terms of its historical perspective. *Prerequisite:* CJ 101

CJ 213 Probation and Parole 3 CR

Teaches the application of probation, pardon and parole methods for both juveniles and adults. Analyzes the most effective methods and techniques as they apply to these services. *Prerequisite:* CJ 101

CJ 216 Juvenile Justice 3 CR

Includes an in-depth examination of the juvenile justice system, its history and its practices. The course also examines the nature and causes of juvenile delinquency, sociological factors that influence such behavior, typologies of juvenile offenders, and current trends in the control of such behavior. *Prerequisite:* CJ 101

CJ 220 Introduction to Corrections 3 CR

A general overview of the corrections system including the historical development of control of human behavior in society. Analysis of the major issues confronting corrections. *Prerequisite:* CJ 101

CJ 223 Interviewing and Counseling 3 CR

Practice-oriented course designed to provide the basic techniques of counseling and interviewing. *Prerequisite:* CJ 101

CJ 224 Women and the Criminal Justice System 3 CR

Explores the changing roles of women in the criminal justice system. The course focuses on women offenders, women victims and women criminal justice professionals. *Prerequisite:* CJ 101

CJ 230 Introduction to Law Enforcement 3 CR

Explores the law enforcement system in the United States. Examines police activities and their relationship to the criminal justice system. *Prerequisite:* CJ 101

CJ 231 Criminal Investigation 3 CR

A study of investigative techniques, sources of information and an analysis of the relationships of investigative units with other law enforcement units and agencies. *Prerequisite:* CJ 101

- CJ 232 Police–Community Relations 3 CR**
Examines various human relations issues that affect policing and police management. Also explores programs established by the police in community relations and community involvement in police policies. *Prerequisite:* CJ 101
- CJ 235 Law of Evidence 3 CR**
An explanation and analysis of the rules of evidence. Examines court decisions concerning the rights of citizens and the rules for giving testimony and the protecting and safeguarding of evidence. *Prerequisite:* CJ 101
- CJ 239 Police Administration and Supervision 3 CR**
Examines management principles as they apply to police organizations. This course includes discussion on the organization and management of police personnel at all levels of operation, leadership styles, policy formation and the internal control of the organization. *Prerequisite:* CJ 101
- CJ 240 Introduction to Security 3 CR**
Discusses the historical, theoretical and legal bases of security, including the purpose of security in modern society, ethics and security, standards and goals for the security industry. *Prerequisite:* CJ 101
- CJ 242 White-Collar Crime 3 CR**
Examines the parameters and magnitude of white-collar crime and the literature that has been professed as explanation for it. *Prerequisite:* CJ 101
- CJ 243 Private Security Law 3 CR**
Examines the relationship between the law and private security operations and criminal law principles of particular concern to security personnel. *Prerequisite:* CJ 101
- CJ 246 Organized Crime 3 CR**
Explores how organized crime is structured and how it can be controlled. The impact of organized crime on major crimes is also assessed. *Prerequisite:* CJ 101
- CJ 247 Security Administration 3 CR**
Presents an overview of security operations in both the public and private sectors. This course includes an examination of loss prevention strategies and safety and fire prevention programs. *Prerequisite:* CJ 101
- CJ 248 Introduction to Fraud Examination 3 CR**
Examines the legal elements of fraud and fraud investigation. This course also explores the methods of preventing, detecting, and deterring fraud in organizations as well as preserving the chain of custody for the court and compiling evidence for court proceedings. *Prerequisite:* CJ 101
- CJ 250 Crisis Intervention for Public Safety Personnel 3 CR**
Examines the concepts and techniques used by criminal justice practitioners in handling crisis situations. Deals with limited, on-site crisis intervention provided by those first to respond. *Prerequisite:* CJ 101
- CJ 251 Criminal Courts and Discretion 3 CR**
Examines the criminal courts as the fulcrum of the criminal justice system. Emphasis on the actual mechanics of the system and the decision making of its functionaries. *Prerequisite:* CJ 101
- CJ 252 Comparative Criminal Justice Systems 3 CR**
Examines how culture, history and economics influence legal systems and the treatment of offenders in various countries. *Prerequisite:* CJ 101
- CJ 253 Criminal Justice Ethics 3 CR**
Examines the fundamentals of ethical theory, controversies and rules of moral judgment as they relate to criminal justice practitioners. *Prerequisite:* CJ 101

CJ 255 Constitutional Rights of Prisoners 3 CR

Examines the constitutional rights of prisoners focusing on recent Supreme Court rulings. The Eighth Amendment and its application to prisoners and prison officials are analyzed and discussed through court cases and current events. *Prerequisite:* CJ 101

CJ 256 Criminalistics 3 CR

An introduction to forensic science, this course examines the application of forensic science to criminal investigations as well as the techniques of the crime lab through actual and case histories. *Prerequisite:* CJ 101

CJ 257 Serial Killers and Profilers 3 CR

An introductory study of the topic of serial killers and criminal profiling. Analyzes both the individual and collective sociological, psychological and emotional aspects of serial killers in an effort to determine why they kill. *Prerequisite:* CJ 101

CJ 270 Issues and Problems in Criminal Justice 3 CR

Description and analysis of crucial issues and problems relating to selected structure and processes in the criminal justice system. *Prerequisite:* CJ 101

CJ 299 Special Topics in Criminal Justice 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Consult the current course schedule for available topics and prerequisites. *Prerequisite:* CJ 101

CJ 381 Research Methods in Criminal Justice 3 CR

Examines the methods of research and the types of data used to develop an understanding of criminal behavior and to create and change policy in the criminal justice system. *Prerequisites:* CJ 101, MA 131, CS 100

CJ 304 Catholic Intellectual Tradition and the Criminal Justice System 3 CR

Exploration of the Catholic Intellectual Tradition. Catholic social teaching and the intersection of contemporary issues and policies of the criminal justice system are examined. *Prerequisites:* CJ 101, CJ 120, CJ 201

CJ 390 Internship 3–6 CR

Supervised placement in a criminal justice agency. *Prerequisite:* Permission of department chairperson

English

The major in English is concerned with the attempt to communicate, both orally and in writing. A variety of courses in literature, writing, speech/communications and drama is offered to develop skills for reading analytically, writing clearly and effectively, and expressing thoughts cogently, while providing a foundation experience in a broad spectrum of literature.

Selections from the wide range of courses within the major and its five concentrations, along with related studies in other areas, will prepare the English major for graduate school, for the professions (teaching, law, medicine), for business and industry (advertising, company writing, editing, personnel relations, press relations, sales) and for the arts (acting, radio/TV, journalism and cinema).

Faculty

Jeffrey Cain, Ph.D., *Associate Professor*

Jane Carlin, M.A., *Instructor*

Patricia Conti, M.S., *Instructor*

David Curtis, Ph.D., *Professor*

Angela DiPace, Ph.D., *Associate Professor*

Jennie-Rebecca Falcetta, Ph.D., *Assistant Professor*

Carol Hampton, M.S., *Instructor*

Michelle C. Loris, Ph.D., Psy.D., *Professor*

Richard Magee, Ph.D., *Assistant Professor*

Robin L. McAllister, Ph.D., *Associate Professor*

E. Kyle Minor, M.F.A., *Instructor*

D. J. Moores, Ph.D., *Assistant Professor*
Robert Novotny, M.A., *Instructor*
Roberta L. Staples, Ph.D., *Professor*
Sandra Young, Ph.D., *Associate Professor*

Major in English

The major in English requires the completion of 39 credits and is organized to include the major core of 24 credits, plus 15 credits taken in one of five areas of concentration: Communications, English Education, Literature, Theater, or Writing.

Required Courses for All English Concentrations

EN 121/122 The British Tradition I/II

EN 131/132 American Voices I/II

EN 265 Shakespeare

EN 375 Advanced Composition

Two Literature offerings from the 200 level or above, one of which must deal with literature written prior to 1900.

Policy Statement Regarding the English Major Survey Courses

The four English survey courses—EN 121, 131, 122, and 132—are foundational to the English major and must be taken by every English major, irrespective of concentration, usually in his/her sophomore year. The courses must be taken in sequence over two semesters. Until they have been taken, no upper-level literature course, except for EN 390, *Studies in Literary Criticism: Special Topics*, may be taken. Upper-level literature courses cannot be taken simultaneously with any one of the survey courses. But any Communications course or writing course may be taken at the same time as the surveys.

Like all major courses, the four surveys must be passed with a grade of “C” or higher to count toward satisfying major requirements. These courses cannot be repeated. Students are given only one chance to pass them. (A student with-

drawing within the first couple of weeks would not be deemed to have “taken” the course and consequently could sign up to take it at a later time.)

After passing all four of the surveys, students will be eligible to enroll in virtually any English course.

A student failing to receive at least a grade of “C” in any of the survey courses should consult with the chair of the department.

Additional Required Courses for Communications Concentration

CA 321 Advanced Effective Communication

Four courses from the following:

CA 171 Acting I

CA 231 Interpersonal Communication

CA 261 Public Speaking

CA 270 Nonverbal Communication

CA 271 Acting II

CA 280 Oral Interpretation of Literature

CA 299 Special Topics in Oral Communication

CA 375 Theater Practicum

CA 399 Special Topics in Communications or Theater

Additional Required Courses for English Education Concentration

The concentration is used only by Education minors. Required courses:

Elementary Education

EN 207 History and Structure of the English Language

EN/ED 387 Children’s Literature

CA 280 Oral Interpretation of Literature

Two electives in Communications or English, in consultation with English academic advisor.

Secondary Education

EN 207 History and Structure of the English Language

MS 101 Introduction to Media Studies

EN 380 Rhetoric and Composition Pedagogy

EN 390 Literary Criticism

Elective, in consultation with English academic advisor.

Additional Required Courses for Literature Concentration

EN 390 Studies in Literary Criticism: Special Topics

Four courses from the 200-level or higher literature offerings exclusive of courses used to fulfill the English major core requirements

Students taking a concentration in Literature are urged to elect advanced studies in related disciplines such as Fine Arts, History, Media Studies, Philosophy, Psychology and Religious Studies.

Additional Required Courses for Theater Concentration

CA 141 Introduction to Theater

EN 230-239 Studies in Drama: Special Topics (one course)

Three courses from the following:

CA 171 Acting I

CA 271 Acting II

CA 375 Theater Practicum (may be taken 3 times for credit)

CA 380 Play Directing

CA 399 Special Topics in Communication or Theater (when topic relates to theater)

Required Courses for Writing Concentration

Five courses from the following:

EN 170 Journal Writing

EN 171–179 Studies in Writing: Special Topics

EN 175 Introduction to Creative Writing

EN/MS 211 Introduction to News Writing and Reporting I

EN 270–274; EN 276-279: Studies in Creative Writing

EN 275 Developing a Writing Voice

EN/MS 311 News Writing and Reporting II

EN/MS 333 Screenwriting

EN 371–379 Studies in Writing: Special Topics

EN 380 Rhetoric and Composition Pedagogy

EN 399 Independent Study/Internship*

*No more than one internship may be taken for major credits.

Supporting Courses for the English Major

All English majors must complete one year (two consecutive semesters) of a Modern Foreign Language.

Minor in English

The minor in English requires the completion of 18 credits in the following areas of concentration: English and Theater.

Required Courses for English Minor

Three upper-level literature courses

One upper-level writing course

One upper-level Communications course (either communications or theater)

One free elective from among upper-level English and Communications courses

Required Courses for Theater Minor

CA 141 Introduction to Theater

EN 265 Shakespeare

EN 230–239 Studies in Drama: Special Topics (one course)

Three courses from the following:

CA 171 Acting I

CA 271 Acting II

CA 375 Theater Practicum (may be taken 3 times for credit)

CA 380 Play Directing

CA 399 Special Topics in Communication or Theater (when topic relates to theater)

Associate in Arts General Studies Emphasis Requirements (15 credits)

One British literature course, one American literature course and three English electives. EN 121, EN122, EN 131, EN 132 will not fulfill the AA requirements.

Course Descriptions

Note: Students must complete the Sacred Heart University English Placement Proficiency Exam before they are allowed to register for EN 109 or EN 110. Placement is based on a combination of high school GPAs, decile, rank, SAT and AP scores as well as on the three-part English Placement Proficiency Exam. The University's objective is to place every student in the appropriate English proficiency level in order to maximize student achievement and success.

Once placement has been determined, the student is obliged to accept his/her placement and course sequence. The University deems this policy crucial in meeting the needs of the student and for his/her success in college.

Additional testing is required for students identified for English as a Second Language (ESL) placement.

ENCC102 Literary Expressions of The Human Journey

This course is part of Sacred Heart University's common core sequence *The Common Core: The Human Journey*. Each course in the common core addresses four fundamental questions of human meaning and value. These questions serve as the unifying frame for all the courses in the Common Core.

In ENCC102 students read and examine significant works of literature. We read serious literature because it presents us with images of, dramatizes for us, or tells us stories about ourselves, our human experience throughout time, and the way we live. This course engages students in conversations about these literary stories, images, and dramatizations.

In this course students will critically and analytically read and examine works of literature from different cultures—western and non-western, including Catholic, and from different time peri-

ods—classical to contemporary, with an aim toward understanding and appreciating how these very different works give us insight into the four central questions: (1) What does it mean to be human? (2) What does it mean to live a life of meaning and purpose, and is it possible to do so? (3) What does it mean to understand and appreciate the natural world? (4) What does it mean to forge a more just society for the common good?

EN 101 Approaches to Literature 3 CR

An introduction to the experience of literature, including fiction, poetry and drama. Introduces critical techniques, critical and technical vocabulary and a broad spectrum of critical approaches. It also requires written work and introduces research tools specific to literature. This is not a required course for English majors. *Prerequisite:* EN 110. Not available to students entering after July 1, 2007.

EN 109 Introduction to Rhetoric 3 CR

Introduces the student to rhetorical strategies and techniques for clear and effective writing. Stresses the recursive nature of writing, encouraging students to think of writing as a means to generate thinking and enhance learning as well as to communicate. English Placement/Proficiency Exam required. Students must pass this course with a grade of C or better.

EN 110 Academic Writing 3 CR

This course introduces students to the rhetorical strategies and techniques necessary for clear and effective college-level writing. Students study and practice academic discourse, including research techniques. The course emphasizes essay organization and development, analysis, argument, documentation and critical evaluation of academic writing. Placement by department testing. Students must pass this course with a grade of C or better.

EN 121 The British Tradition I 3 CR

From Beowulf to the Augustans, from Anglo-Saxon runes to Restoration comedy, this course features

writings by Chaucer, Spenser, Shakespeare and Milton. Sophomore level, for English majors. Does not satisfy Humanities requirement in the core.

EN 122 The British Tradition II 3 CR

From the Age of Reason to the Age of Anxiety. Course highlights romantic writers like Wordsworth and Keats, Victorians like Dickens and Arnold, modernists like Joyce and Woolf. Sophomore level, for English majors. Does not satisfy Humanities requirement in the core. *Prerequisite:* EN 121

EN 131 American Voices I 3 CR

From Plymouth Rock to Gettysburg, puritanism, federalism and American Romanticism are examined. Bradford, Edwards, Franklin, Poe, Emerson, Hawthorne and Whitman. Sophomore level, for English majors. Does not satisfy Area B 1 literature requirement.

EN 132 American Voices II 3 CR

Success and failure, triumph and tragedy. From the Gilded Age to the America of giant corporations and global supremacy. Writings of Twain, Dickinson, James, Hemingway, Morrison, Frost and Eliot are examined. Sophomore level, for English majors. Does not satisfy Area B 1 literature requirement. *Prerequisite:* EN 131

EN 170 Journal Writing 3 CR

A series of in-class private writing exercises aimed at self-discovery and tapping resources of creative energy. Class trips serve as the basis for descriptive journal writing exercises that stress description, narration, exposition and the editing process. *Prerequisite:* EN 110

EN 171–179 Studies in Writing: Special Topics 3 CR

A series of courses designed to meet the multitude of writing needs demonstrated by students in a variety of majors. Course topics include writing poetry, short story, fiction and nonfiction, freelance writing, corporate writing, journalism, etc. Advanced-level courses are offered under EN 371–379. *Prerequisite:* EN 110

EN 175 Introduction to Creative Writing 3 CR

Introduction to writing in three major forms of fiction: poetry, the short story and drama. Includes daily writing assignments with attention to the creative preferences of the individual student. Workshop atmosphere allows peer interaction and frequent student/instructor consultation. *Prerequisite:* EN 110

†EN 201 Masterpieces in Literature 3 CR

Designed for students at the Sophomore level. Description varies each time it is offered. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN 207 History and Structure of the English Language 3 CR

A survey of the major changes in structure, vocabulary and uses of the language from the earliest times to the present. Explores important findings of modern linguistic scholarship. Required for secondary education. *Prerequisite:* EN 110

EN/MS 211 News Writing and Reporting I 3 CR

An introduction to basic news writing and journalistic reporting principles. Concepts of journalism provide a format for analysis of the news media and responsibilities of a journalist in today's society. Workshop sessions utilize the concepts in practical work. *Prerequisites:* EN 110 and MS 101

EN 220 Introduction to Women's Studies 3 CR

An interdisciplinary course introducing feminist theory and practice. Course examines gender as an organizing force in our society and culture, in our language and literature, in our sense of self and in our personal relationships.

EN 225 Shakespeare's Sisters: Women Writers from the Middle Ages to the Present 3 CR

Literature written by women and examined

through the lens of feminist literary theory. Some of the writers highlighted are Woolf, Morrison, Naylor, Bronte, Rossetti and Eliot. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN 230–239 Studies in Drama: Special Topics 3 CR

The focus and content of the course vary each semester but a given semester may involve itself with a study of American drama or modern drama (1850–present), Theater of the Absurd, classical Greek drama, comedy, tragedy, Elizabethan/Jacobean drama, period courses, or a specific dramatist theme. The course studies plays as literature meant for stage production. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 250 Studies in Literature in a New Land 3 CR

Focuses on Colonial American Writing: 1620–1800. Bradford, Edwards, Taylor, and Franklin are studied. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 255 Studies in Early American Black Literature 3 CR

African-American literature from 1790 to 1900, including the slave narratives, the mockingbird school and folk poetry. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 256 Studies in The American Renaissance 3 CR

A study of transcendentalists, Hawthorne, Melville, Poe. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 257 Studies in Dickinson to Eliot 3 CR

Reveals much about America's "Gilded Age" and America's emergence into the modern world with its writers of the wasteland, the "lost generation."

Prerequisites: EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 258 Studies in Faulkner to Present 3 CR

Modern American literature in content and technique reflects 20th-century preoccupation with loss of faith, the rise of individual consciousness and the dilemma of radical alienation in an increasingly fragmented society. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 265 Shakespeare 3 CR

Explores a wide variety of plays from a literary as well as a theatrical perspective, with emphasis on Shakespeare's development as a dramatist and the relationship of his plays to their historical and cultural context. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN 270–274; 276–279 Studies in Creative Writing 3CR

These writing courses build upon techniques developed in EN 175, Introduction to Creative Writing. Areas might include the writing of poetry and particular poetic forms, the short story, the novel, drama, and the literary essay. *Prerequisite:* EN 175 or permission of the department chair

EN 275 Developing a Writing Voice 3 CR

From the colloquial to the informal to the formal, this course examines the development of writing voice and explores the stylistic and rhetorical choices writers make to communicate meaning and knowledge. *Prerequisite:* EN 110

†EN 280–289 Studies in World Literature: Special Topics 3 CR

Course description varies each time the course is offered. *Prerequisites:* EN 101 or EN/CC 102, or EN122 and EN132 for English majors

EN 299 Special Topics in English 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses cover timely topics. An

experimental alternative to existing courses. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics.

†EN 310 Studies in British Literature to 1603 **3 CR**

Major works of British poetry and prose, beginning with Old English and Beowulf and expanding through the literature of the Middle Ages with special emphasis on Chaucer and Elizabethan poets. Some drama, exclusive of Shakespeare, is included. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN/MS 311 News Writing and Reporting II **3 CR**

This advanced workshop simulates a newspaper magazine publishing atmosphere. Students are assigned roles as writers or editors for individual sections to create a student news magazine as part of the newspaper staff. *Prerequisite:* EN/MS211

†EN 312 Studies in Seventeenth-Century British Literature **3 CR**

Examines the works of Jonson, Donne, Herbert, Marvell, some of the lesser-known Metaphysical and Cavalier poets and Milton. Prose writings of Browne, Burton and Bunyan are also studied. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 313 Studies in Restoration and Eighteenth-Century British Literature **3 CR**

Dryden, Pope, Swift and Johnson are read, as well as Restoration dramatists (Congreve, Etherege, Wycherly) and early novelists (Defoe, Richardson, Fielding). *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 314 Studies in the Romantic Period in British Literature **3 CR**

Emphasis on the literature written during and immediately after the French Revolution and England's ensuing war with France. The relation-

ship between the individual and political, social and intellectual environments is studied. Blake, Wordsworth, Shelley and Keats are read. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 315 Studies in the Victorian Period in British Literature **3 CR**

Explores the literature of Tennyson, Browning, Arnold, Dickens, Eliot, Newman, Ruskin, Pater, Swinburne and others. Focuses on major writers of the period (1830–1901) beginning with the poetry and concluding with studies in the Victorian novel. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 316 Studies in Twentieth-Century British Literature **3 CR**

Addresses modernism as it is shaped and constructed in the classic texts of Conrad, Woolf, Yeats, Joyce, Lawrence and others. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 320–329 Studies in Poetry: Special Topics **3 CR**

Course description varies each time the course is offered. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN/MS 333 Screenwriting **3 CR**

An introduction to writing for fiction and non-fiction film and television. Topics include basic dramatic theory, narrative structure, characterization, dialogue, adaptation and the unique demands of the audio/visual media, as well as pragmatic matters of format and the marketplace. *Prerequisite:* EN 110 and MS 101

†EN 340–359 Studies in Fiction: Special Topics **3 CR**

Course description varies each time the course is offered. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN/MS 370 Newspaper Publication **3 CR**

Introduction to newspaper publication provides

editing and publications practice. Emphasis on copy selection, copy editing, story placement, headline writing, use of art, page layout, copy fitting, and use of stylebooks. Students work as part of an editorial team to produce an issue of a news magazine.

EN 371–379 Studies in Writing:

Special Topics **3 CR**

A series of courses designed to meet the multitude of advanced writing needs demonstrated by students in a variety of majors. Course topics include nonfiction writing, freelance writing, corporate writing, journalism, etc. *Prerequisite:* EN 110 or permission of instructor

EN 374 Studies in Writing:

Nature Writing **3 CR**

This course explores the connections between our natural environment and the diverse ways we communicate our ideas, perceptions and feelings about that environment. Writers work to discover a rhetorical stance and voice that effectively evokes the natural world in prose. *Prerequisite:* EN 110

EN 375 Advanced Composition **3 CR**

Explores writing strategies beyond the introductory level. Stresses refining style, finding a voice, determining an audience and discovering the rhetorical strategies appropriate for particular genres. This course is a workshop; students write and revise in class. *Prerequisite:* EN 110

EN 376 Freelance Writing:

Writing for Magazines **3 CR**

This course requires students to write, revise, and submit feature and news articles for publication. Designed to provide basic audience and journalistic theory, this course allows students to research magazine focus and audience as well as submit articles to professional magazines. *Prerequisite:* EN 110

EN 380 Rhetoric and Composition

Pedagogy **3 CR**

This course is designed for students who will be

teaching writing in a secondary educational environment. The course demonstrates how research, scholarship, and theory can inform the teaching of writing. *Prerequisite:* EN 110

†EN 384–385 Studies in Black Literature:

Special Topics **3 CR**

A detailed study of such Black authors as Hughes, Wright, Ellison, Brooks, Baldwin, Baraka and others with attention to selected themes in four genres. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

†EN 386 Studies in Black Writers in

America **3 CR**

A consideration of Black writers from Dunbar and Chesnutt to the present. Study of Harlem Renaissance writers, including Wright, Ellison, Hayden, Brooks, Tolson, Baldwin, Baraka and the Black arts movement. Emphasis on the relation of the works to traditional images of Blacks in America and to themes found in American literature as a whole. *Prerequisites:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN/ED 387 Children's Literature **3 CR**

A survey of children's literature, including an introduction to the mythology and folklore of the world. Attention given to techniques of motivating children to enjoy stories. Required for all elementary education students and for English majors concentrating in elementary education. Will not satisfy area B-1 Literature requirement. *Prerequisite:* EN 101 or EN/CC 102, or EN 122 and EN 132 for English majors

EN 390 Studies in Literary Criticism:

Special Topics **3 CR**

Course description each time course is offered. *Prerequisite:* EN 101 or EN/CC 102 or permission of the department chairperson

EN 391 British Literature Seminar **3 CR**

Studies the works of and criticism written on a single British author. Limited enrollment. *Prerequisite:* Permission of the department chairperson

EN 392 American Literature Seminar 3 CR
Studies the works of and criticism written on a single American author. Limited enrollment.
Prerequisite: Permission of the department chairperson

EN 398 Senior Seminar 3 CR
Open to qualified seniors by invitation of the Department of English. Course enables students to synthesize their understanding of English and American literature through the study of selected problems in literature and literary criticism.

EN 399 Independent Study 1–3 CR
Work on a special topic to be arranged with an instructor who will direct this work. Permission of the department chairperson is granted to qualified English majors on the basis of a written prospectus. By special arrangement.

English as a Second Language— Non-credit and Credit

**ES 005–006 Intensive ESL Oral
Communication I, II Non-credit**
These beginning courses are designed for students to improve basic listening and speaking skills. Through a variety of materials and activities, students are encouraged to share their ideas and practice their English. Upon completion of these courses, students should be able to understand and engage in everyday conversations, communicate basic needs, and give a short report. Placement by the ESL program staff.

**ES 007–008 Intensive ESL Oral
Communication III, IV Non-credit**
These low to high-intermediate courses are designed for students to improve their listening and speaking skills necessary to study at a university. Students listen to lectures and engage in debates and discussions. In addition, students may observe academic classes at the University. Upon completion of these courses, students should be able to understand and take notes on lectures, participate in group discussions, and

give oral presentations. Placement by the ESL program staff.

**ES 009–010 Intensive ESL Written
Communication I, II Non-credit**
These beginning courses are designed for students to improve basic reading and writing skills. Students read a variety of short, multicultural reading selections to develop reading, writing, and critical thinking skills. The focus of these courses is the structure of reading and writing. Students take a close-up view of their reading and writing and work on the fundamentals. They discuss readings, develop vocabulary, and learn to write well-structured, well-developed paragraphs and summaries, as well as reactions to readings. Placement by the ESL program staff.

**ES 011–012/EF 011-012 Intensive ESL
Written Communication III, IV Non-credit**
These low to high-intermediate courses are designed to help students improve their reading and writing skills to the level required for academic study. Students read articles, essays and short stories from a variety of textbooks, magazines, and Internet sources. Student writing focuses on ideas that are generated from these readings and from personal experiences, including those of service-learning activities. Placement by the ESL program staff.

**EF 151–152 English as a Second
Language V, VI 3 CR**
The intermediate and advanced levels in English as a Second Language, these “university bridge” courses are designed to strengthen students’ academic reading and writing skills as they begin academic study. Focus is on writing the well-developed essay with stress placed on the appropriate elements of grammar, syntax, vocabulary development, and strategies for reading college-level texts. Placement by the ESL program staff.

European Studies

European Studies Minor

The multidisciplinary European Studies minor allows students to concentrate on a broad study of Europe in all its dimensions: history, politics and government, business, economics, language and literature. The focus of this minor will be on modern and contemporary Europe.

The minor will require 18 credit hours, with at least 3 credits taken in each of the four areas listed below:

Politics and Government

Economics or International Business

History

Language or Literature

In addition, students who minor in European Studies must demonstrate competency in a European language at the intermediate level.

Coursework

The following courses have been preapproved. New electives must be approved by the director of the European Studies program and the chair of the Department of History. Approval will be based on the centrality of the course topic with respect to the study of Europe.

The courses listed below qualify for the above requirements:

BU/IB 203 Intercultural Management

BU/IB 278 Principles of International Business

EC 322 International Economics

EC 324 Economic Stabilization and Reform in Central Europe

EC 325 European Economic Community

EC 342 European Economic Development

EN 316 Studies in Twentieth-Century British Literature

FR 280 French Civilization and Culture

FR 353–359 Topics in French/Francophone Film

FR 363–369 Topics in French/Francophone Culture

FR 373–379 Topics in French/Francophone Literature

HI 314 French Revolution and Napoleon

HI 218 Modern France

IT 280 Italian Civilization and Culture

IT 353–359 Topics in Italian Film

IT 363–369 Topics in Italian Culture

IT 373–379 Topics in Italian Literature

PO 302 Development of Modern Political Theory

PO 303 Modern Political Ideologies

PO 311 Comparative Western European Politics

PO/EC 313 The Politics of European Integration

PO 341 International Law

SP 280 Hispanic Civilization and Culture: Spain

Global Studies

Global Studies Minor

The interdisciplinary 18-credit minor in global studies is designed to prepare students for a rapidly changing, increasingly complex and global interdependent world. The Internet, multinational corporate power, international trade and international peacekeeping commitments, political and economic organizations of global magnitude, as well as the migration and integration of population groups from diverse religious, cultural and ethnic backgrounds, are clear indicators of a planet in a state of dramatic transition. Economics, politics and more generally the people of this world are becoming closely linked and interconnected. Sacred Heart's Global Studies minor is therefore a timely practical response to the unpredictable, but exciting, challenges of the 21st century.

Requirements

Students who minor in Global Studies must complete 18 credits, including a mandatory 3-credit course GS 150: World Geography. The remaining 15 credits are distributed over at least three of the five clusters, with no more than 6 credits per cluster.

In addition, students who minor in Global Studies must demonstrate competency in a foreign lan-

guage at the intermediate level.

Coursework and Groupings

The following courses have been preapproved. New electives in these fields must be approved by the director of the Global Studies program and the chair of the Department of History. Approval will be based on the centrality of the course topic with respect to issues that are global interest.

GS 150 World Geography Anthropology/Sociology, Social Work, Criminal Justice

- AN 110 Human Cultural Diversity
- AN 201 World Cultures
- SO 239 Diversity and Oppression in Contemporary Society
- SO 240 Studying Changing Human Populations
- SO 245 The Contemporary World Social System
- SO 254 Society and Economic Change
- CJ 252 Comparative Criminal Justice Systems

History

- HI 207 History of Latin America to 1826
- HI 208 History of Latin America Since 1826
- HI 212 Twentieth-Century Latin America
- HI 218 Modern France
- HI 236 History of the Arab World I from Muhammad-Ottoman Empire
- HI 238 The Modern Arab World
- HI 283 The History of Modern China to 1921
- HI 285 China in Revolution
- HI 300 The Vietnam War

Political Science

- PO 122 Introduction to International Relations
- PO 240 War
- PO 241 Peace
- PO 242 International Organizations
- PO 243 Terrorism
- PO 311 Comparative Western European Politics
- PO 312 Comparative Eastern European Politics
- PO 313 The Politics of European Integration
- PO 314 Middle East Politics

- PO 315 Latin American Politics
- PO 316 South Asian Politics
- PO 317 African Politics
- PO 341 International Law

Religious Studies

- RS 214 Introduction to Eastern Religions
- RS 215 Introduction to Islam
- RS 216 Celtic Religious Tradition
- RS 217 Introduction to Western Religions
- RS 219 Women in World Religions

International Business/Business Economics

- BU 203 Cultural Environment of International Business
- BU/IB 233 International Business Law
- BU/IB 278 Principles of International Business
- BU 375 E-Commerce
- MK/IB 264 International Marketing
- EC 322 International Economics
- EC 324 Economic Stabilization Reform in Central Europe
- EC 342 European Economic Integration
- FN/IB 316 International Financial Management

Course Description

GS 150 World Geography **3 CR**
 Surveys the wide spectrum of topics that comprise modern physical and cultural geography. Topics include earth/sun relationships, atmosphere, landforms, hydrology, biosphere and energy flow. Also, population, culture, religion, politics, economics, agriculture and industrial/urbanization. Overview concepts include mapping, regions, and environmental issues.

History

The History degree opens doors to a variety of career possibilities. The History major provides excellent preparation for a career in teaching, law, politics, business, government, journalism, foreign service, curatorship/museum management, and many other fields. The student of history acquires not only knowledge but also skills in research, analysis, judgment of evidence, and the organization and expression of ideas. These skills and the ability to think analytically and solve problems that a major in History imparts are highly valued qualities in today's world.

Faculty

Thomas D. Curran, Ph.D., *Professor*
Charlotte M. Gradie, Ph.D., *Professor*
James M. Lundberg, M. Phil., *Instructor*
Jennifer McLaughlin, M.A., *Instructor*
John B. Roney, Ph.D., *Professor*
Paul Siff, Ph.D., *Associate Professor*
Gregory Viggiano, Ph.D., *Assistant Professor*

Major in History

A major in History requires the completion of 35 credits in History and 1 credit in Required Supporting Courses.

Required Courses

HI 222 United States History to 1865
HI 223 United States History since 1865
HI 301 Historical Method and Criticism
HI 397 Senior Thesis Prep
HI 398 Senior Thesis

Seven History electives, including at least one in each of the following areas: The Ancient World, Europe, Latin America, and East Asia

Required Supporting Courses

IL 302 Information Literacy for History Majors (1 credit)

Minor in History

A minor in History requires the completion of the

following 18 credits:

Required Courses

HI 222 (Formerly 121) United States History to 1865

HI 223 (Formerly 122) United States History since 1865

One elective from each of four areas: The Ancient World, Europe, Latin America and East Asia

See also Minors in European Studies, Global Studies and Latin America.

Associate in Arts General Studies

Emphasis Requirements (15 credits)

HI 222 (Formerly 121) United States History to 1865

HI 223 (Formerly 122) United States History since 1865

Three History electives including one in each of the following areas: Europe, the Far East, and Latin America

Course Descriptions

Note: each course at the 200 or 300 level is open only to students who either are in their sophomore year or higher or have permission of the instructor.

HICC 101 The Human Journey: Historical Paths to Civilization 3 CR

This course is the first in a series of core-curriculum offerings that address four essential questions that are derived from the Catholic intellectual tradition: (1) What does it mean to be human? (2) How can one live a life of meaning and purpose? (3) How can people forge a more just society for the common good? and (4) How can one understand and appreciate the natural world? In this course these questions are approached historically through the study of Western European history and thought through the Renaissance. Additional perspective is added by considering the civilization of ancient China.

†HI 207 History of Latin America to 1826**3 CR**

Examines the Spanish and Portuguese conquest and empire building, culture and society during the colonial age and the disintegration of the empires by 1826.

†HI 208 History of Latin America since 1826**3 CR**

Examines the historical development of Latin America beginning with the wars of independence to the end of the 20th century. Topics include Latin America and the world economy, 20th-century revolutions, the emergence of mass politics, the changing role of religion and foreign nations.

†HI 209 The U.S. and Latin America through History**3 CR**

Traces the connections between the two regions from the colonial period to the present. Topics covered include political, economic and diplomatic relations, border conflicts, immigration; and questions of identity.

†HI 212 Twentieth-Century Latin America**3 CR**

An in-depth study of the changes in Latin America during the 20th century. Examines the major issues from the Mexican Revolution of 1910 to the Cuban Revolution of 1959 as well as current problems. Topics include dependency, Marxism, Peronism, and social and political change in the region.

†HI 216 Princes to Peasants**3 CR**

A survey of European social history from the 14th century to the late 19th century. Emphasis on the household and family, gender, social class and rank, the body and death and material and daily life.

†HI 218 Modern France**3 CR**

Follows the political, economic and religious developments from 1789 to the 1960s. It examines the last monarchy under Louis Philippe, the rise of democracy by 1848 and numerous political factions and World War I and II, culminating in the

person of Charles de Gaulle. Attention is given to continuity and change to understand the character of France.

†HI 221 American Colonial History**3 CR**

Explores the cultural, social and political history of the British North American colonies from the eve of the first contact of indigenous and colonizing cultures to the eve of the American Revolution (roughly 1492–1763).

†HI 222 (Formerly 121) United States History to 1865**3 CR**

Examines American development from the period of exploration to the conclusion of the Civil War. Major themes include colonial society, the Revolution, 19th-century expansion and economic growth, slavery, and the War for the Union.

†HI 223 (Formerly 122) United States History since 1865**3 CR**

Analyzes United States development from Reconstruction to the present, examining major social, political, economic, and foreign policy developments and their impact on American life.

†HI 224 (Formerly 222) Freedom in American History**3 CR**

Examines the history of freedom in America as a contested ideal. Treatment of blacks in slavery and the political rights of women are among the topics covered.

†HI 229 (Formerly 129) History of Sports in America**3 CR**

Examines the development of major spectator sports in America from their fragmentary, localized beginnings to their highly organized and enormously powerful present condition.

†HI 230 The Civil War**3 CR**

Examines an epic and transformative period in U.S. history from a multidimensional perspective. The clash of arms, military and civilian leaders, lives of ordinary soldiers and civilians, politics and economies of the Union and Confederacy, and “new birth of freedom” that ended slavery are

reviewed and discussed.

†HI 231 The Cold War and American Society 3 CR

Explores the roots and development of the Cold War between the United States and U.S.S.R. (1946–91); its impact on American social, political, economic and cultural values and practices; and some of its long-term consequences for the nation's society and place in the world.

†HI 236 History of the Arab World I: From Muhammad—Ottoman Empire 3 CR

A study of the rise of Islam and the emergence of the Arabs as a world power. Discussion focuses on the achievements of Muhammad, the institution of the caliphate, Umayyad and Abbasid empires, Crusades and decline of Arab influence in the Near East under the pressure of Turkish expansion.

†HI 238 The Modern Arab World 3 CR

This course begins with the breakup of the Ottoman Empire and delineates the rise of the Arab states in recent times.

†HI 252 Medieval Europe 3 CR

Topics include Feudalism and Christendom, Islam and the Crusades, the Carolingian Empire and the rise of national states. Important elements include art and architecture, cosmology and alchemy, hierarchy, the rise of the early Renaissance, as well as different types of work and "callings."

†HI 253 History, Art, and Culture in the Low Countries 3 CR

This course examines the history of the Low Countries through art and written texts from 1400 to 1850. It also compares and contrasts the development of Flemish and Dutch art and literature and shows how religion played an important part in the formation of early-modern Low-Country culture.

†HI 276 The Rise of Modern Science 3 CR

Starting with their origins in the Scientific Revolution of the 16th century, this course pres-

ents the major scientific developments in Western life and their impact on society. Topics include the Copernican Universe, Darwinian biology and several major scientific advancements in the 20th century.

†HI 281 Introduction to the Civilization of East Asia 3 CR

An overview of the history of China and Japan from prehistoric times to the late traditional period (approximately 1800). Intended to enhance students' appreciation of the uniqueness and coherence of these two ancient civilizations.

†HI 283 The History of Modern China to 1920 3 CR

Presents the history of modern China from approximately 1800 to 1920 emphasizing the decay of traditional culture and the Chinese response to the West.

†HI 285 China in Revolution 3 CR

Examines the history of 20th-century China focusing on the rise to power of the Chinese Communist Party and its efforts to transform China into a modern nation.

†HI 287 The Holocaust 3 CR

Explores man's inhumanity to man as exemplified by the Nazi murder of two-thirds of European Jewry. Historical, psychological, sociological and literary themes; prejudice in general and anti-Semitism in particular are studied and followed by an inquiry into the Nazi years.

†HI 299 Special Topics in History 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics.

†HI 300 The Vietnam War 3 CR

A survey of the war in Vietnam emphasizing the colonial origins of the conflict, United States and Vietnamese strategies and the causes of the American defeat.

†HI 301 (Formerly 201) Historical Method and Criticism 3 CR

An introduction to the history of historical thinking and writing, the contemporary field of historical methods and theories, and the research tools and skills necessary for the study of history and the writing of papers and essays.

†HI 311 (Formerly 211) Discovery and Conquest, 1492–1598 3 CR

Examines the major themes of the Spanish conquest and colonization of the Americas from Columbus's discovery of the New World in 1492 to the death of Philip II in 1598. Topics include Spanish and Indian worldviews, biological and demographic consequences of contact, development of a conquest culture in the Americas, and the role of missionaries and conquistadors.

†HI 314 (Formerly 214) French Revolution and Napoleon 3 CR

Traces the path of the French Revolution from its origins through each of its political phases from 1789 to 1799. It culminates with the rise of Napoleon Bonaparte, his achievements and failures and the end of the empire in 1815.

†HI 322 U.S. Foreign Policy 3 CR

Evolution and expansion of American foreign policy from the Revolutionary period to the present. Analyzes the aims of foreign policy, influences upon it and its impact on the nation's domestic politics.

†HI 325 (Formerly 225) African-American History 3 CR

Examines the forced migration of Africans to America, the condition and nature of slavery, abolitionism, emancipation, twilight zone of freedom, growth of civil rights and Black Power movements.

†HI 328 (Formerly 228) The Immigrant Experience 3 CR

A comparative, historical study of American immigration focusing on motives for immigration, patterns of settlement, adjustment, and subsequent generational experience of successive immigrant groups.

†HI 354 (Formerly 254) The Renaissance and Reformation 3 CR

A study of the transition from medieval to modern society through investigation of political, social, economic, religious, and cultural factors involved in the change.

†HI 377 (Formerly 277) The New Deal Transformation 3 CR

Examines the transformative changes in American government and society created during the New Deal administration of President Franklin D. Roosevelt.

†HI 391 Internship Program 3–6 CR

Offers qualified students supervised field experience in an area allied with their own interests. Internships are arranged in advance of the semester they are to be taken. *Prerequisite:* Permission of the instructor

HI 397 Senior Thesis Prep (Spring Semester, Junior Year) 2 CR

This course, for second-semester Juniors, is designed for students to begin working on their Senior Thesis projects (HI 398). *Prerequisites:* HI 301 and IL 302

HI 398 Senior Thesis 3 CR

Students are exposed to the experience of researching, writing and defending a major historical project. Permits students to learn, on a one-to-one basis with a project director, the importance of critical analysis and writing within the disciplines of history.

†HI 399 Independent Study 1–3 CR

Directed study of a specific, well-defined topic, by special arrangement with an instructor and with the prior approval of the department chairperson.

Information Literacy

Course Descriptions

IL 101 Introductory Information

Literacy

1 CR

This course, which meets once a week for nine weeks, acquaints the student with the process of finding, retrieving, organizing, evaluating, using, and distributing information in an ethical manner both in print and electronic formats. Focus is on gaining the necessary skills to conduct research effectively and efficiently as well as being able to properly evaluate and cite sources.

IL 302 Information Literacy for

History Majors

1 CR

This course meets once a week for 10 weeks. Each class is one hour and fifteen minutes long. The course is designed to acquaint History students with the process of finding, retrieving, organizing, analyzing, using, and distributing information both in print and electronic formats for the purpose of preparing for and completing their Senior Thesis. Focus is on using the resources provided to create a working bibliography in conjunction with the Senior Thesis (HI 398). *Prerequisite:* HI 301

Latin American Studies

Latin American Studies Minor

In keeping with students' interest in global and multicultural issues, Sacred Heart University offers an interdisciplinary minor in Latin American Studies. The minor should be particularly attractive to students majoring in Economics, History, Political Science, Business and International Business and Spanish. This minor is also of benefit to students who wish to apply to a graduate program in Latin American Studies or who wish to enhance their prospects in the job market by linking a disciplinary major with a regional specialization.

Requirements

Requirements include six courses, three of which

must be from three different disciplines selected from approved courses in Anthropology, Economics, English, History, Music, Political Science and Spanish. Students who minor in Latin American Studies must demonstrate competency in Spanish or Portuguese at the intermediate level.

Coursework

The following courses have been preapproved. New electives must be approved by the director of the Latin American Studies program and the chair of the Department of History. Approval will be based on the centrality of the course topic with respect to the study Latin America.

Fine Arts

- MU 114 Latin American and Caribbean Music
- HI 207 History of Latin America to 1826
- HI 208 History of Latin America from 1826
- HI 209 The U.S. and Latin America Through History
- HI 212 Twentieth-Century Latin America

Political Science

- PO 315 Latin American Politics

Spanish

- SP 261–262 Masterpieces of Latin American Literature, I, II
- SP 281 Hispanic Civilization and Culture: Spanish America
- SP 283 The Hispanic Caribbean
- SP 315–320 Contemporary Issues
- SP 363–369 Advanced Topics in Spanish-America Literature

Mathematics

The primary objective of the Mathematics program is to provide an appropriate mathematical background to all University students, focusing on the ability to think critically and solve problems through oral and written communication, in order to foster quantitative literacy.

In addition, the Mathematics program is designed to:

1. Provide Mathematics majors with the basic undergraduate mathematical knowledge necessary for graduate studies, a teaching career or a variety of statistical or business careers.
2. Provide Science and professional majors with the mathematical and statistical background for their fields and highlight the wide applicability of mathematics.
3. Provide Business majors with a foundation in finite mathematics and calculus and illustrate the relevance of mathematics to increasing complexities of the business world.
4. Provide Liberal Arts majors with an introduction to mathematical ideas and promote an appreciation and understanding of the important role of mathematics.

The strengths of the department include small class sizes in developmental and major courses, emphasis on student/faculty interaction and classroom instruction utilizing relevant software and technology.

Sacred Heart University is an institutional member of the Mathematical Association of America, as well as the American Mathematical Society.

Faculty

Rosemary Danaher, *Instructor*

Hema Gopalakrishnan, Ph.D., *Assistant Professor*

George Goss, M.A., *Instructor*

Kathleen O. Kingston, Ph.D., *Assistant Professor*

Rose Marie B. Kinik, M.A., *Assistant Professor*

Peter Loth, Ph.D., *Associate Professor*

Jason Moliterno, Ph.D., *Associate Professor*

Ryan Mullen, Ph.D., *Assistant Professor*

Phani Papachristos, M.A., *Instructor*

Jessica Pfeil, M.Phil., Ph.D., *Assistant Professor*

Jean T. Sells, Ph.D., *Associate Professor*

Major in Mathematics

The Mathematics major requires the completion of 40 mathematics credits plus 8 credits in calcu-

lus-based physics

Required Courses

MA 151 Calculus I

MA 152 Calculus II

MA 253 Calculus III

MA 261 Linear Algebra

MA 301 Mathematical Structures and Proofs

MA 331 Probability and Statistics I

MA 354 Differential Equations

MA 362 Abstract Algebra

MA 371 Real Analysis

MA 398 Senior Seminar in Mathematics

In addition to the required courses, the Mathematics major must choose two of the following electives:

Electives

MA 311 Geometry

MA320 Graph Theory

MA 332 Probability and Statistics II

MA 372 Complex Analysis.

Required Supporting Courses

PY 151/153 Principles of Physics I and Lab

PY 152/154 Principles of Physics II and Lab

Minor in Mathematics

The minor in Mathematics requires the completion of the following 19 credits:

Required Courses

MA 151 Calculus I

MA 152 Calculus II

MA 253 Calculus III

MA 261 Linear Algebra

MA 331 Mathematical Probability and Statistics I

Associate in Arts General Studies

Requirements (16 credits)

MA 140 Precalculus

MA 151 Calculus I

MA 152 Calculus II

MA 261 Linear Algebra

Course Descriptions

MA 006 Intermediate Algebra 3 CR

Explores the real number system, exponents and radicals, polynomials, rational expressions, linear and quadratic functions and their graphs. Does not carry degree credit. A grade of C or better is required. *Prerequisite:* Mathematics Placement Exam

†MA 101 Modern College Mathematics I 3 CR

Examines systems of numeration, the real number system, finite mathematical systems, number theory, sequences and basic financial mathematics. *Prerequisite:* C or better in MA 006 or placement by Mathematics Department

†MA 102 Modern College Mathematics II 3 CR

Systems of linear equations, inequalities, probability and introductory statistics.

†MA 104 Mathematics for Elementary School Teachers 3 CR

This one-semester course is designed specifically for students planning to teach at the elementary school level. Topics include geometry, measurement, rational numbers, ratio, proportion, percents, problem solving, mathematical reasoning and connections, probability and statistics. *Prerequisite:* MA 101

†MA 105 Mathematical Applications for Health Sciences 3 CR

Designed exclusively for Nursing students. Topics include college-level algebra, graphing, basic trigonometric functions and appropriate applications for the health sciences. It is a problem-solving approach to mathematics. *Prerequisite:* C or better in MA 006 or placement by Mathematics Department

†MA 106 College Algebra 3 CR

This is one-semester course is designed to

improve algebraic skills. Topics include: functions, equations and inequalities in one variable; linear, quadratic, polynomial and rational functions, exponential and logarithmic functions; systems of linear equations in two variables. Algebraic techniques and applications are stressed. *Prerequisite:* Placement by Mathematics Department

†MA 109 Mathematics for Decision Making 3 CR

Designed specifically for the Business major. Focus is on linear functions, systems of equations, matrices, probability and linear programming. *Prerequisite:* C or better in MA 006 or placement by Mathematics Department

†MA 110 Calculus for Decision Making 3 CR

Designed specifically for the Business major. Includes study of limits; differentiation of algebraic, exponential and logarithmic functions; integration; and applications of calculus. *Prerequisite:* MA 109 or placement by Mathematics Department

†MA 131 Statistics for Decision Making 3 CR

Emphasizes the use of computer software. Descriptive statistics, probability distributions, confidence intervals, correlation and hypothesis testing are studied. *Prerequisite:* One college-level Mathematics course or placement by Mathematics Department

†MA 133 Business Statistics 3 CR

Introduces statistics to Business majors. Problem-oriented course discussing the use of statistics, frequency distribution, probability sampling, hypothesis testing, correlation analysis, linear regression analysis and graphic representation of statistical data using Excel. *Prerequisites:* One college-level Mathematics course or placement by Mathematics Department

- †MA 140 Precalculus** 4 CR
Addresses the algebra of functions, polynomial and rational functions, exponential and logarithmic functions and trigonometric functions, including analytical trigonometry. *Prerequisite:* MA 106 or placement by Mathematics Department
- †MA 151 Calculus I** 4 CR
Explores limits and approximation, differential and integral calculus of the elementary algebraic and transcendental functions, applications of differentiation and integration. *Prerequisite:* MA 140 or placement by Mathematics Department
- †MA 152 Calculus II** 4 CR
Covers applications and methods of integration, inverse trigonometric functions, improper integrals, sequences and series, parametric representation and polar coordinates. *Prerequisite:* C or better in MA 151
- †MA 253 Calculus III** 4 CR
Introduces three-dimensional analytic geometry, multivariable calculus, real-valued functions of several variables, limits and continuity, partial derivatives, multiple integration. *Prerequisite:* C or better in MA 152
- MA 261 Linear Algebra** 4 CR
Focuses on sets and linear mappings, vector spaces and subspaces, inner product spaces, matrix theory, determinants and eigenvalues. *Prerequisite:* C or better in MA 152
- MA 299 Special Topics in Mathematics** 3 CR
Designates new or occasional courses on a timely topic or a faculty member's particular interest. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.
- MA 301 Mathematical Structures and Proofs** 3 CR
Introduces students to the understanding and creation of rigorous mathematical arguments and proofs. Includes methods of proof, set theory, relations and functions, properties of the integers, real and complex numbers and polynomials. *Prerequisite:* Sophomore standing or C or better in MA 152
- MA 311 Geometry** 3 CR
Designed specifically for students interested in education. Includes study of axiomatic systems, Euclidean and non-Euclidean geometry, projective geometry, incidence and separation properties in 2 and 3 space, and inversion in a circle and in a sphere. Junior standing or permission of Mathematics Department
- MA 320 Graph Theory** 3 CR
Focuses on structures and properties of graphs and their applications. Topics include: traversability, trees, connectivity, network flow, graph coloring, chromatic number and planarity. Discussion of application of graph theory to computer science, transportation, scheduling, communication, chemistry and a variety of other fields. *Prerequisite:* C or better in MA 301
- MA 331 Probability and Statistics I** 3 CR
Addresses probability, discrete random variables and their distributions. Applied approach to estimation, correlation, regression and hypothesis testing. *Prerequisite:* C or better in MA 152
- MA 332 Probability and Statistics II** 3 CR
Focuses on continuous random variables and their distributions, multivariate distributions, expectation, theory of estimation, method of moments and of maximum likelihood. *Prerequisites:* MA 253 and MA 331
- MA 354 Differential Equations** 3 CR
Focuses on equations involving functions and one or more of its derivatives. Examines first-order differential equations, numerical and qualitative techniques for solving differential equations,

linear systems, geometry of linear systems, and applications to forcing/resonance. If time permits, the course will address the Laplace Transform, convolutions, and advanced numerical methods for solving differential equations. *Prerequisite:* C or better in MA 253

MA 362 Abstract Algebra **3 CR**

Explores algebraic systems, group theory, quotient structures, isomorphism theorems, ring theory and ideals, as well as integral domains and fields. *Prerequisite:* C or better in MA 301

MA 371 Real Analysis **3 CR**

Addresses real numbers, cardinality, metric spaces, convergence, topology, continuity and differentiability. *Prerequisites:* C or better in MA 301 and Senior standing

MA 372 Complex Analysis **3 CR**

Examines the algebra and geometry of complex numbers, analytic functions, integration, Taylor and Laurent series, contour integration, analytic continuation and conformal mappings. *Prerequisite:* Senior standing

MA 398 Senior Seminar in Mathematics **3 CR**

Capstone course for the mathematics major. Each student works on a research project leading to an oral presentation and the writing of a formal paper. *Prerequisite:* Senior standing

Media Studies

Media Studies is a program offering a major that combines the study of communications theory and technology with the liberal arts and which examines the theories behind contemporary communication in print journalism, radio and television broadcasting, still photography, film, digital media and the Internet.

The program recognizes that the student must be competent in techniques of production and must

understand the historical, social and philosophical aspects of media. Media courses aimed at developing basic competence in multimedia production are an integral part of the program.

Faculty

James Castonguay, Ph.D., *Associate Professor*
Debbie Danowski, Ph.D., *Associate Professor*
Gregory Golda, M.Ed., *Clinical Instructor*
Sidney Gottlieb, Ph.D., *Professor*
Andrew Miller, Ph.D., *Assistant Professor*
Sara Ross, Ph.D., *Assistant Professor*

Media Studies Facilities

The Media Studies multiple-purpose studios are used for digital video, television and audio/radio production. The complex features a multicamera studio, with a lighting grid, surround sound, chromakey, and multitrack audio recording that broadcasts via closed-circuit cable throughout the campus.

The studios further provide remote production capabilities in portable video equipment and digital video, with separate editing suites for nonlinear computer-based editing and DVD authoring. Multi-image slide/tape production equipment and digital still cameras offer students additional creative outlets.

Major in Media Studies

The major in Media Studies requires the completion of 48 credits.

Required Courses

EN 375 Advanced Composition
MS 101 Introduction to Media Studies
MS 191, 192, 193, 195 or 197 History of the Motion Picture I, II, III, History of Broadcasting, History of Journalism
MS 201 The Art of the Moving Image
MS/EN 211 News Writing and Reporting I
MS 301 Reading Seminar in Media and Cultural

Theory (Senior year)

MS 397 Senior Project I

MS 398 Senior Project II

One approved Literature course, 200 level or above

Eight electives are required of Media Studies majors. Three of these must be in media production courses and three must be in media history or theory. The two additional electives may be in history and theory or production.

Production (choose three)

MS 212 Radio Production I

MS 213 Video Production I

MS 214 Television Production I

MS 215–315 Digital Film & Video Production I, II

MS 216 Digital Photography I

MS 232 DVD and Multimedia Production

MS 288 Democratic Technologies

MS 294 Magazine Publication

MS 295 Television & New Media Journalism

MS 298 Advertising and Public Relations
Production

MS 300 Special Topics in Media Production

MS/EN 309 Special Topics in News Production

MS/EN 311 News Writing and Reporting II

MS 312 Radio Production II

MS 313 Video Production II

MS 316 Digital Photography II

MS/EN 233 Screenwriting

MS/EN 370 Newspaper Publication

MS 395 Multimedia Field Production

Other department-designated and approved
courses

MS 396 Internship

History and Theory (choose three)

MS 191 History of Film I

MS 192 History of Film II

MS 193 History of Film III

MS 195 History of Broadcasting

MS 197 History of Journalism

MS 198 History of Advertising and Public
Relations

MS 200 Mass Media: Special Subjects

MS 280 Digital Culture

MS 283 History of Documentary Still Photography

MS 287 Media and Democracy

MS 293 Alternative Media

MS 299 Special Topics in Media Studies

MS 381 Women in Film

MS 382 Third-World Cinemas

MS 383 Documentary Film and Video

MS 384 National Cinemas

MS 390 Television Genres

MS 391 Film Seminar

MS 392 Film Genres

MS 393 Film Directors

Two additional courses in History and Theory or
Production

A Media Studies advisor may prescribe and
approve alternatives.

Minor in Media Studies

The minor in Media Studies requires the comple-
tion of the following 18 credits:

Required Courses for Minor

MS 101 Introduction to Media Studies

Two Production courses

Two History and Theory courses

MS 301 Reading Seminar in Media and Cultural
Theory

or

MS 398 Senior Project

Associate in Arts General Studies

Emphasis Requirements (15 credits)

MS 101 Introduction to Media Studies

MS 201 The Art of the Moving Image

or

MS 301 Senior Seminar in Media History and
Theory

One Production course

Two Media Studies electives

Course Descriptions

†MS 101 Introduction to Media Studies

3 CR

Introduction to media technology, examining the impact of radio, television, newspapers, still photography, film and the computer on the human condition. Trains the student to be a perceptive consumer of contemporary mass media by exploring how each medium codifies reality. Readings, screenings, and written assignments required.

†MS 191 History of Film I

3 CR

Introduction to the historical development of filmmaking from 1895 to 1945, highlighting the evolution of the film as a means of expression. Films from the past are shown at each class meeting followed by a discussion of several aspects of the film.

†MS 192 History of Film II

3 CR

History of the Motion Picture II covers from 1945 to 1975, including extensive screening of classic films. Readings, screenings, and written assignments required. May be taken out of sequence.

†MS 193 History of Film III

3 CR

This course covers the history of motion pictures from 1975 to the present, including extensive screening of classic and contemporary films. Readings, screenings, and written assignments required. May be taken out of sequence.

MS 195 History of Broadcasting

3 CR

Explores the history of radio and television broadcasting, including financing of research, technological developments, regulation, structure of genres, the social context and values of programs, legal and political implications of national and international broadcasting and the effect on cultural identity and national sovereignty.

MS 197 History of Journalism

3 CR

Investigates the social history of American journalism from the penny press to the World Wide Web, including technological developments in news

gathering and delivery, regulation and consolidation of the press, social and political implications of coverage, effects of changes in literacy and society, comparisons with other models and trends toward globalization.

MS 198 History of Advertising and Public Relations

3 CR

Provides a critical overview of the history, purpose, and various methods related to advertising and public relations. Students analyze the semantic and syntactic properties of ads and public relations campaigns from the consumer point of view with special emphasis on how they communicate persuasively. Readings, screenings, and written assignments required.

MS 200 Mass Media: Special Subjects

3 CR

An opportunity to study current communications topics revolving around the effects of mass media on individuals, communities and countries. Subjects are determined by their topical interest and importance. Course title is shown on the student's transcript. Consult current course schedule for available topics.

†MS 201 The Art of the Moving Image

3 CR

A study of the language of moving pictures. Unlike the linear sequence of speech and the written word, moving pictures create a simultaneity of sensory perception. Through an intensive study of experimental and feature films, this course explores the nature of the moving images and how they are organized to create a whole. *Prerequisite:* MS 101

†MS/EN 211 News Writing and Reporting I

3 CR

An introduction to basic news writing and journalistic reporting principles. Concepts of journalism provide a format for an analysis of the news media and the responsibilities of a journalist in today's society. Workshop sessions utilize the concepts in practical work. *Prerequisites:* EN 110 and MS 101

MS 212–312 Radio

Production I, II **3 CR each**

An introduction to basic radio production. Students prepare for the FCC third-class license, learn the audio control board and develop concepts of radio broadcasting. Because WSHU is integrated into the courses as a laboratory and program outlet, students are required to function as staff members. *Prerequisite:* MS 101

MS 213 Video Production **3 CR**

An introduction to basic video theory and production technique. Classes focus on mastering technical elements of production and developing a familiarity with the grammar of the moving image. Students conceive and produce individual final video projects using portable equipment. *Prerequisite:* MS 101

MS 214 Television Studio
Production I **3 CR**

An introduction to multicamera studio production.

MS 215–315 Digital Film & Video
Production I, II **3 CR each**

An introduction to the basic techniques of cinematic composition and editing. Presents the basic administrative and aesthetic aspects of filmmaking. *Prerequisite:* MS 101

MS 216–316 Digital Photography
I, II **3 CR each**

First semester is an introduction to the fundamentals of digital photography. Topics include camera care and handling; visual literacy; composition; the nature of light, color, portraiture and experimental photography. Second semester is built around advanced techniques in digital production. Critical discussions on the photography of major artists supplements the practical work. A digital camera with manual operative is required. Students are responsible for processing costs. *Prerequisite:* MS 101

MS/BU 222 Sports Communications **3 CR**

Focuses on the fundamentals needed to implement a program in sports information, publicity and promotions. Preparing of news releases; writing local and hometown features; publishing programs and brochures; compiling statistical breakdowns; dealing with the local, regional and national press; and promoting specific events, teams and individuals are included. *Prerequisites:* C or better in EN 011, EN 012, CA 021 and MS 101

MS 232 DVD and Multimedia
Production **3 CR**

An introduction to DVD multimedia production techniques. Focus is on mastering the technical elements of advanced digital video editing and DVD authoring technology and developing a familiarity with the grammar of multimedia more generally. Students develop and produce a variety of projects culminating in their own DVD portfolio. *Prerequisite:* Any other MS production course or permission of instructor

MS 233 Screenwriting **3 CR**

An introduction to writing for fiction and nonfiction film and television. Topics include basic dramatic theory, narrative structure, characterization, dialogue, adaptation and the unique demands of the audio/visual media, as well as pragmatic matters of format and the marketplace. *Prerequisites:* EN 110 and MS 101

MS 280 Digital Culture **3 CR**

Considers digital and technologically mediated environments as “mass media” in the tradition of film, radio or television. Using a variety of approaches, including historical, sociological, economic, technological, cultural and aesthetic, the course looks at questions such as how does the Internet codify reality? How are communities both created and thwarted? What are the characteristics of the global media culture? Readings, screenings, and written assignments required. *Prerequisite:* MS 101 or CT 101

MS 283 History of Photography 3 CR

The history of documentary still photography from its beginning in the 1840s through the present is studied. Focus is on analyzing the photographs, as well as the social and historical contexts in which they were made, to come to some conclusions about the nature of documentary photography. Students with photographic experience and equipment may, with the permission of the instructor, choose to do a documentary photography project instead of a final paper.

MS 287 Media and Democracy 3 CR

Examines the relationships between the mass media (film, television, newspapers and the Internet), the public and politics. Historical case studies analyze from ethical, economic, social, historical, aesthetic and technological perspectives how the media provide (or do not provide) a place through which people express their views as citizens in a democracy. Current media examples are also investigated. Readings, screenings, and written assignments required. *Prerequisite:* MS 101 or CT 101

MS 288 Democratic Technologies 3 CR

Focuses on the creative use of technologies available to the American consumer. Instruction in alternative audio and visual production encourages students to express themselves and distribute media content using available consumer and public access technologies. Laptop computers are required to digitize audio and visual projects and for Internet research. *Prerequisite:* MS 101 or CT 101

MS 293 Alternative Media 3 CR

Explores nonmainstream and noncommercial media—mechanical, electronic and digital—to understand their content, form and roles they play in our culture. The course looks at the aesthetic theories and/or social motivations, implicit or explicit in the alternative culture and in individual works. Readings, screenings, and written assignments required.

MS 294 Magazine Publication 3 CR

Overview of the entire process of magazine publication. Topics include history, theory and status of contemporary publication, concept research and development of new magazines, writing and editing of articles, desktop publishing layout and design, marketing and advertising campaigns, new technologies and the future. Students conceive and produce individual magazines. *Prerequisite:* MS 101

MS 295 Television & New Media Journalism 3 CR

A production course designed to introduce students to the techniques of electronic journalism. Students also learn to analyze and constructively criticize the process and product. *Prerequisite:* MS 101

MS 298 Advertising and Public Relations Production 3 CR

Applies various theories of advertising and public relations to specific practical problems in the commercial and nonprofit world. Students experiment with form and style by producing advertising and public relations campaigns for new products, public service projects and/or political candidates in several different media. *Prerequisite:* MS 101

MS 299 Special Topics in Media Studies 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on timely topics, a faculty member's particular interest, an experimental alternative to existing courses, etc. Course title is shown on the student's transcript. Consult the current course schedule for available topics and required prerequisites.

MS 300 Special Topics in Media Production 3 CR

New or occasional courses in advanced video

production such as approaches to editing, audio recording techniques, digital storytelling or computer-aided design. Course title is shown on the student's transcript. Consult the current course schedule for available topics and required prerequisites.

MS 301 Senior Seminar in Media History and Theory 3 CR

An interdisciplinary study of contemporary theories of mass communications. Presents an overview of the impact of mass communications by considering them as codes, symbolic systems and manipulative powers on both the conscious and subconscious levels. Reading, writing, discussion and research are required. *Prerequisites:* MS 101 and Senior standing in the major

MS/EN 309 Special Topics in News Production 3 CR

New or occasional courses in advanced newspaper or magazine production such as advanced editing techniques, feature writing, sports writing or investigative reporting. Course title is shown on the student's transcript.

MS/EN 311 News Writing and Reporting II 3 CR

This advanced workshop simulates a newspaper magazine publishing atmosphere. Students are assigned roles as writers or editors for individual sections to create a student news magazine as part of the newspaper staff. *Prerequisite:* MS/EN 211

MS 313 Video Production II 3 CR

Advanced course in single-camera video production. Each student directs an original fiction or nonfiction work and provides technical support on classmates' projects. *Prerequisite:* MS 213 or permission of the instructor

MS/EN 370 Newspaper Publication 3 CR

Introduction to newspaper publication provides editing and publications practice. Emphasis on copy selection, copy editing, story placement,

headline writing, use of art, page layout, copy fitting, and use of stylebooks. Students work as part of an editorial team to produce an issue of a news magazine.

MS 381 Women in Film 3 CR

Films are cultural artifacts. Each film contains within itself a complex social system reflecting the attitudes, values and mores of the society that produced it. This course uncovers the values that encode the function of women on screen including the images they project; roles they assume; values they encode; and relationships they establish with men, children and each other. Readings, screenings, and written assignments required. Consult the current course schedule for available topics and required prerequisites.

MS 382 Third-World Cinemas 3 CR

Concentrating on filmmaking and videomaking in several different Third World cultures (e.g., Senegal, Brazil, Cuba, India and/or the Black workshop movement in Great Britain), the course looks at the history of production, distribution and reception in each culture; considers the practical, theoretical and political implications of aesthetic choices; and relates this to the social circumstances of the different filmmaking practices. Readings, screenings, and written assignments required. Consult the current course schedule for available topics and required prerequisites.

MS 383 Documentary Film and Video 3 CR

Examines major epistemological, aesthetic and political concerns of documentary film and video. This course introduces students to a variety of documentary principles, methods and styles in order to explore a series of theoretical issues that are important to documentary production, representation and reception. Readings, screenings, and written assignments required. Consult the current course schedule for available topics and required prerequisites.

MS 384 National Cinemas 3 CR

Examines a particular national cinema or moment in national cinemas (e.g., New German Cinema, French New Wave, Italian Neorealism) whose contributions to the history of cinema have been significant. Attention is given to the social and cultural context, production, distribution and reception circumstances and stylistic innovations of the different filmmaking practices. Readings, screenings, and written assignments required. Consult the current course schedule for available topics and required prerequisites.

MS 390 Television Genres 3 CR

A study of individual television forms, including the teleplay, the documentary, the docudrama and the situation comedy. Emphasis on the historical development of the genre, the particular characteristics of the genre that affect its content and style and meaning of this kind of programming within a cultural context. Readings, screenings, and written assignments required. Consult the current course schedule for available topics and required prerequisites.

MS 391 Film Seminar 3 CR

An intensive course focusing on specific aspects of film history, theory and criticism, with special emphasis on film's relationship to society. Each semester the course concentrates on an individual topic of discussion. Readings, screenings, and written assignments required. Consult the current course schedule for available topics and required prerequisites.

MS 392 Film Genres 3 CR

A study of particular film forms, including western, gangster, science fiction, horror, comedy and other film genres. Attention is given to the themes and stylistics of genres, and to the genre film's contemporary cultural significance and contribution to the history of ideas. Consult the current course schedule for available topics and required prerequisites.

MS 393 Film Directors 3 CR

Examines individual film directors whose contributions to the history of the cinema have been especially notable. Film directors are studied for their stylistic and philosophical innovations as well as for their historical place in the medium. Each semester a particular director or directors are chosen for study. Consult the current course schedule for available topics and required prerequisites.

MS 395 Multimedia & TV Field Production 1–3 CR

An opportunity for outstanding Media Studies majors to assist in the planning and production of media projects contracted by Sacred Heart University or by outside agencies. By permission of the chairperson of the faculty of Communication Studies. Offered only when appropriate projects are available. Consult the current course schedule for available topics and required prerequisites.
Prerequisite: MS 213

MS 396 Internship 1–6 CR

An opportunity for qualified upper-division Media Studies majors to gain practical experience at area media/communications companies such as radio or television stations, cable companies, newspapers, magazines and public relations firms.
Prerequisite: Permission of instructor and department chairperson

MS 397/398 Senior Project 3 CR

The purpose of the project is threefold: to create an opportunity for a senior Media Studies student to apply creative theory to practice; to stress the interdisciplinary aspects of media communication; and to provide the student with a "portfolio" product or research project to use as a demonstration of his or her abilities. Consult the current course schedule for available topics and required prerequisites. *Prerequisite:* Media Studies Senior standing

MS 399 Independent Study 1–3 CR

Work on a special topic or production to be

arranged with an instructor who will direct the work. Permission of the chairperson of the faculty of Communication Studies is granted to qualified Media Studies majors on the basis of a written prospectus. By special arrangement. Consult the current course schedule for available topics and required prerequisites.

Middle Eastern Studies

Dr. June-Ann Greeley, Ph.D., *Program Director*

Middle Eastern Studies Minor

Islam is the fastest growing religion in the world. By 2025, 20% to 25% of the world's population will be Muslim.

The Israeli/Palestinian conflict has affected decades of politics and public policy in both Western nations as well as regions of the Middle East and Southeast Asia.

The tragic events associated with September 11, 2001, and the subsequent war on terrorism, which has reached global proportions, are signatures of the dramatic shift in global economy/politics/society that have altered perhaps permanently American perspectives of itself and the world. The deployment of the U.S. military to Afghanistan, the invasion of Iraq, and what now appears to be a prolonged U.S. commitment to establishing a democracy not only in Iraq but in countries throughout the region are all indicators of the complex interlocking of American and Middle Eastern interests for generations to come.

A well-balanced minor in Middle Eastern Studies will enrich the undergraduate experience for students, and should prove beneficial for graduate study and professional careers.

Interdisciplinary Minor

The Middle Eastern Studies minor is interdisciplinary and requires a total of 18 credits of coursework in a foreign language, history, political science and religious studies.

Required Courses

AB 101 Arabic I

AB 102 Arabic II

HI 236 History of the Arab World I: From Muhammad–Ottoman Empire

HI 238 The Modern Arab World

PO 314 Middle East Politics

RS 215 Introduction to Islam

The University normally offers Arabic in alternate years. Students interested in the minor should schedule accordingly. In the event of late declaration of the minors, substitutions may be approved by the minor program director.

Special topics involving the Middle East, if and when offered under History, Political Science, or Religious Studies, can be used as substitutes for a required course only if the required course is not available within the student's four-year course of study. The study of Arabic cannot be substituted by any course other than Middle Eastern language courses. The application of such courses to the Middle Eastern Studies minor requires the approval of the minor program's director.

Suggested Courses Beyond the Minor Requirements

PO 316 South Asian Politics

RS 205 Ancient Cults and Religions

RS 217 Introduction to Western Religions

Modern Foreign Languages

The Modern Foreign Languages program is oriented toward developing students' linguistic abilities as well as providing a broad knowledge of foreign cultures and literatures. Communicative competence and oral proficiency are stressed in language classes, but all skill areas (reading, writing, listening, and speaking) are developed. Multimedia tools (DVDs, CDs, Internet sources) are integral to the methodology. The program also

provides offerings in literature (including comparative literature and literature in translation), culture and civilization, linguistics, history, and film. Advanced content courses encourage students to think critically about foreign languages and cultures. These courses incorporate textual and linguistic analysis, as well as the examination of the social, cultural, and historical context of the given country or countries.

Study abroad is encouraged. Sacred Heart University has its own study abroad programs in Spain, Italy, Ireland, and Australia. The University is also affiliated with a consortium that offers study abroad opportunities throughout the world, including locations in France, Canada, and Latin America.

Students can pursue a major in Spanish as well as minors in Spanish, French, and Italian. Courses are also offered in Japanese and Arabic.

Faculty

Claire Marrone, Ph.D., *Professor*

Mark Mascia, Ph.D., *Associate Professor*

Pilar Munday, Ph.D., *Associate Professor*

Claire J. Paolini, Ph.D., *Professor*

Ana Yepes, MAT, *Instructor*

Virtual Modern Languages Laboratory

The study of Modern Foreign Languages is enhanced through the use of our own virtual language laboratory. The language lab provides students with ample opportunity to hear a variety of native speakers, to practice and reinforce language and phonological patterns, to record and hear their voices, and to copy from master tapes. A variety of recordings and DVDs on foreign cultures, literatures, and history is available. Many courses offer online workbooks that include sound and video clips.

Major in Spanish

The major in Spanish requires the completion of 33 credits.

Required Courses for Major

SP 201 Advanced Spanish Composition and Grammar I

SP 202 Advanced Spanish Composition and Grammar II

Three courses in Spanish literature: one in Peninsular literature, one in Latin American literature, and one in either.

Three courses in culture, civilization, and contemporary issues: one dealing with Spain, one dealing with Latin America, and one with either.

Three Spanish electives, beyond the 200 level.

Minor in Spanish

The minor in Spanish requires the completion of 18 credits.

Required Courses for Minor

SP 151* Intermediate Spanish I

SP 152* Intermediate Spanish II

SP 201* Advanced Spanish Composition and Grammar I

SP 202* Advanced Spanish Composition and Grammar II

The balance of credits may be chosen from advanced-level courses.

*May be waived by the department for students starting at the advanced level or who are native speakers; however, students must complete 18 credit hours in Spanish.

Spanish majors seeking to pursue a 5th-Year Masters in Education must demonstrate oral and written proficiency in Spanish by their undergraduate senior year. The Department requires that these students take the ACTFL (American Council of the Teaching of Foreign Languages) Oral Proficiency Interview and the Writing Proficiency Test at the end of their junior year. If the student

does not achieve a level of *intermediate high* in both tests, as required by the State of Connecticut, he/she must meet with an advisor and to discuss the possibility of studying abroad. Students in this situation may retake the exam during their senior year. Both exams can be taken at Sacred Heart University with one of the Spanish professors acting as proctor. For more information on these tests, check the ACTEL testing website at www.languagelearning.com.

Associate in Arts General Studies Emphasis Requirements

(18–20 credits)

SP 151* Intermediate Spanish I

SP 152* Intermediate Spanish II

SP 201 Advanced Spanish Composition and Grammar I

SP 202 Advanced Spanish Composition and Grammar II

and/or

SP 211 Conversation: Topics for Daily Living I

SP 212 Conversation: Topics for Daily Living II

and/or

Spanish electives

*Waived by the department for students accepted into courses at more advanced levels.

Minor in French

For students who begin college study at the beginning (FR 011–012) or intermediate (FR 151–152) levels, the French minor requires the completion of 18 credits. Students begin accumulating credits toward the minor at the intermediate level. For students who begin college study at the advanced (FR 201–202) level, the minor requires the completion of 12 credits.

Required Courses for Minor

FR 151* Intermediate French I

FR 152* Intermediate French II

FR 201* Advanced French I

FR 202* Advanced French II

The balance of credits may be chosen from advanced-level French courses.

*Waived by the department for students accepted into courses at more advanced levels.

Associate in Arts General Studies Emphasis Requirements

(18 credits at the intermediate level [FR 151–152] and above)

FR 151* Intermediate French I

FR 152* Intermediate French II

FR 201* Advanced French I

FR 202* Advanced French II

and

6 credits of upper-level French electives

*Waived by the department for students accepted into courses at more advanced levels.

Minor in Italian

For students who begin college study at the beginning (IT 011–012) or intermediate (IT 151–152) levels, the Italian minor requires the completion of 18 credits. Students begin accumulating credits toward the minor at the intermediate level. For students who begin college study at the advanced (IT 201–202) level, the minor requires the completion of 12 credits.

Required Courses for Minor

IT 151* Intermediate Italian I

IT 152* Intermediate Italian II

IT 201* Advanced Italian I

IT 202* Advanced Italian II

The balance of credits may be chosen from advanced-level Italian courses.

*Waived by the department for students accepted into courses at more advanced levels.

Associate in Arts General Studies Emphasis Requirements

(18 credits at the intermediate level [IT 151–152] and above)

IT 151* Intermediate Italian I

IT 152* Intermediate Italian II

IT 201* Advanced Italian I

IT 202* Advanced Italian II

and

6 credits of upper-level Italian electives

*Waived by the department for students accepted into courses at more advanced levels.

Arabic Course Descriptions

AB 101–102 Beginning

Arabic I, II

3 CR each

Intended to give students a foundation in standard Arabic. Students learn to produce Arabic sounds and write its letters. They are taught basic vocabulary, common phrases and greetings to communicate in various settings. The Arabic world and its differing cultures and dialects are examined. Offered every other year.

French Course Descriptions

†FR 011–012 Beginning

French I, II

3 CR each

Intended for beginning-level students. Emphasis on building communicative competence and oral proficiency. All four skill areas covered, including reading, writing, listening, and speaking. An appreciation of French and Francophone cultures integral to course. Multimedia tools (videos, CDs, Internet sources) enhance course.

†FR 151–152 Intermediate

French I, II

3 CR each

Continued emphasis on communicative competence and oral proficiency. Review and intensified study of grammar. Readings, vocabulary building, composition, listening comprehension and conversation. French and Francophone cultures integral to course. Multimedia tools (CDs, Internet sources) enhance course. *Prerequisite:* FR 012 for FR151; FR 151 for FR152 or placement

FR 201–202 Advanced

French I, II

3 CR each

Designed to fortify proficiency in the various skill

areas (reading, writing, listening, and speaking) and cultural awareness. Prepares students for upper-division literature and culture classes. Includes complex grammar review and extensive writing in various styles and genres; cultural and literary readings; oral expression. Audiovisual and/or technological materials incorporated into class. *Prerequisite:* FR 152 for FR 201 or placement; FR 201 for FR 202 or placement

†FR 203 Advanced Conversation and Contemporary Issues

3 CR

Development of advanced proficiency and communicative competence through discussion of current events and contemporary issues. Varied readings (newspapers, magazines, technological sources) and activities (debates, skits). *Prerequisites:* FR 201 and FR 202 or placement

†FR 251 Early French Writers

3 CR

A survey of representative literary texts from the Middle Ages through the 17th century. Discussion of historical and cultural context. Several literary genres (novel, poetry, drama, etc.) treated. Critical techniques introduced. Taught in French. *Prerequisites:* FR 201 and FR 202 or placement

†FR 252 French and Francophone Writers Then and Now

3 CR

A survey of representative literary texts from the 18th century to the present. Discussion of historical and cultural context. Both canonical and lesser-known works in several literary genres (novel, poetry, drama, autobiography, etc.) treated. Critical techniques introduced. Taught in French. *Prerequisites:* FR 201 and FR 202 or placement

FR 280 French Civilization and Culture

3 CR

Promotes understanding of the history and culture of the French with emphasis on arts, politics, language, thought, and lifestyle. Readings, films, the visual arts, and music are incorporated. Taught in French. *Prerequisite:* FR 201 and FR 202 or placement

FR 281 Francophone Civilization and Culture 3 CR

Content varies. Promotes understanding of Francophone peoples through their histories, cultures, politics, religious beliefs, and lifestyles. Readings, films, the visual arts and music are incorporated. Taught in French. *Prerequisites:* FR 201 and FR 202 or placement

FR 282 Business French 3–4 CR

Focuses on commercial French style and cultural aspects of business life in France and the Francophone world. Emphasis on commercial vocabulary and idioms most used in business situations. Taught in French. *Prerequisite:* FR 152 or placement

FR 283 Franco–Italian Connections 3–4 CR

Content varies. Comparative course focusing on historical and cultural connections and contrasts between France and Italy. May treat particular period (war years, contemporary times). Can include literature, film, music, and the visual arts. Taught in English with language-specific assignments for foreign language students. *Prerequisites:* FR 201 and FR 202 or placement

FR 315 Paris 3 CR

Focuses on culture of Paris through art, history, literature, music, film, and popular culture. May treat particular period (Paris during the Revolution, contemporary Paris). May include issues such as Paris as cultural center, expatriates in Paris, and the future of the city. Taught in French. *Prerequisites:* FR 201 and FR 202 or placement

FR 316 Quebec 3 CR

Focuses on Quebec region in its historical and cultural contexts. Includes issues such as national identity, language, and the relationship to France. Taught in French. *Prerequisites:* FR 201 and FR 202 or placement

FR 353–359 Topics in French/Francophone Film 3–4 CR

Content varies. Study of particular film directors, movements (Poetic Realism, New Wave), periods, and genres. *Prerequisites:* FR 201 and FR 202 or placement

FR 363–369 Topics in French/Francophone Culture 3–4 CR

Content varies. Study of particular periods (French Revolution), locations, movements, and representative individuals (politicians, artists). *Prerequisites:* FR 201 and FR 202 or placement

FR 371 Literary Travelers, Exiles and Expatriates 3–4 CR

Treats literary representations of travel, exile, and expatriation. Emphasis on works in a variety of genres including novel, autobiography and letters. Issues include life abroad and life in exile, bicultural and multicultural identity, displacement and subjectivity, bilingualism and confrontations with foreign cultures. May treat specific period. *Prerequisites:* FR 201 and FR 202 or placement

FR 372 Women Writers 3–4 CR

Treats literary works by French and Francophone women in a variety of genres including novel, autobiography, drama, poetry and letters. Discussion of feminist literary criticism and theory. May treat specific period. *Prerequisites:* FR 201 and FR 201 or placement

FR 373–379 Topics in French/Francophone Literature 3–4 CR

Content varies. Study of particular authors, movements (surrealism), periods, and genres (novel, drama). *Prerequisites:* FR 201 and FR 202 or placement

FR 399 Independent Study 1–3 CR

Work on special topic to be arranged with instructor who directs work. Permission of the department chairperson is granted to qualified students

in French on basis of written prospectus. By special arrangement

Italian Course Descriptions

†IT 011–012 Beginning

Italian I, II 3 CR each

Intended for beginning-level students. Emphasis on building communicative competence and oral proficiency. All four skill areas are covered including reading, writing, listening, and speaking. An appreciation of Italian culture is integral to the course. Multimedia tools (videos, CDs, Internet sources) enhance course.

†IT 107–108 Beginning Italian

Language and Culture in

Italy I, II 3 CR each

Beginning-level language course at the American University of Rome. Students placed according to their level. Covers the four skill areas of listening, speaking, reading, and writing. Study of Italian culture integral to the course.

†IT 151–152 Intermediate

Italian I, II 3 CR each

Continued emphasis on communicative competence and oral proficiency. Review and intensified study of grammar. Readings, vocabulary building, composition, listening comprehension, and conversation. Italian culture integral to course. Multimedia tools (videos, CDs, Internet sources) enhance course. *Prerequisite* for IT 151 is IT 012 or placement; *prerequisite* for IT 152 is IT 151 or placement

†IT 157–158 Intermediate Italian

Language and Culture in

Italy I, II 3 CR each

Intermediate-level language course at the American University of Rome. Students placed according to their level. Continues to develop the four skill areas: reading, writing, listening, and speaking. Intensified study of structure and vocabulary. Study of Italian culture integral to the course.

†IT 201–202 Advanced

Italian I, II 3 CR each

Designed to fortify proficiency in the various skill areas (reading, writing, listening, and speaking) and cultural awareness. Prepares students for upper-division literature and culture classes. Includes complex grammar review and extensive writing in various styles and genres; cultural and literary readings; oral expression. Audiovisual and/or technological materials incorporated into class. *Prerequisite*: IT 152 or placement for IT 201; IT 201 or placement for IT 202

†IT 203 Advanced Conversation and Contemporary Issues

3 CR

Development of advanced proficiency and communicative competence through discussion of current events and contemporary issues. Varied readings (newspapers, magazines, technological sources) and activities (debates, skits). *Prerequisites*: IT 201 and IT 202 or placement

†IT 251 Early Italian Writers 3 CR

A survey of representative literary texts from the Middle Ages through the 17th century. Discussion of historical and cultural context. Several literary genres (novel, poetry, drama, etc.) treated. Critical techniques introduced. Taught in Italian. *Prerequisites*: IT 201 and IT 202 or placement

†IT 252 Italian Writers Then and Now 3 CR

A survey of representative literary texts from the 18th century to the present. Discussion of historical and cultural context. Both canonical and lesser-known works in several literary genres (novel, poetry, drama, autobiography, etc.). Critical techniques introduced. Taught in Italian. *Prerequisites*: IT 201 and IT 202 or placement

IT 280 Italian Civilization and Culture 3 CR

Promotes understanding of the history and culture of Italians with emphasis on the arts, politics, language, thought, and lifestyle. Readings, films, the

visual arts and music are incorporated. Taught in Italian. *Prerequisites:* IT 201 and IT 202 or placement

IT 283 Franco–Italian Connections 3–4 CR

Content varies. Comparative course focusing on historical and cultural connections and contrasts between France and Italy. May treat particular period (war years, contemporary times). Can include literature, film, music, and the visual arts. Taught in English with language-specific assignments for foreign language students. *Prerequisites:* IT 201 and IT 202 or placement

IT 353–359 Topics in Italian Film 3–4 CR

Content varies. Study of particular film directors, movements (Neorealism), periods, and genres. *Prerequisites:* IT 201 and IT 202 or placement

IT 363–369 Topics in Italian Culture 3–4 CR

Content varies. Study of particular periods (*Risorgimento*), locations, movements (Fascism), and representative individuals. *Prerequisites:* IT 201 and 202 or placement

IT 371 Literary Travelers, Exiles and Expatriates 3–4 CR

Treats literary representations of travel, exile, and expatriation. Emphasis on works in a variety of genres including novel, autobiography, and letters. Issues include life abroad and life in exile, bicultural and multicultural identity, displacement and subjectivity, bilingualism, and confrontations with foreign cultures. May treat specific period. *Prerequisites:* IT 201 and IT 202 or placement

IT 372 Women Writers 3–4 CR

Treats literary works by Italian women in a variety of genres including novel, autobiography, drama, poetry, and letters. Discussion of feminist literary criticism and theory. May treat specific period. *Prerequisites:* IT 201 and IT 202 or placement

IT 373–379 Topics in Italian Literature 3–4 CR

Content varies. Study of particular authors, movements, periods, and genres (short story, drama). *Prerequisites:* IT 201 and IT 202 or placement

IT 380 Dante and the Italian Literary Tradition 3 CR

An advanced literature course focusing on Dante Alighieri's *Commedia*, in particular the *Inferno*. Also treats Dante's influence on the Italian literary tradition through contemporary times. *Prerequisites:* IT 201 and IT 202 or placement

IT 399 Independent Study 3 CR

Work on a special topic to be arranged with instructor who directs this work. Permission of the department chairperson is granted to qualified students in Italian on basis of written prospectus. By special arrangement.

Japanese Course Descriptions

†JP 101–102 Beginning Japanese I, II 3 CR each

An introduction to modern Japanese. pronunciation, drill, grammar, and conversation practice with an introduction to the hiragana and katakana writing system. Offered every other year.

†JP 151–152 Intermediate Japanese I, II 3 CR each

Continued emphasis on communicative competence and oral proficiency. Review and intensified study of structure, reading, vocabulary building, composition, listening comprehension and conversation. *Prerequisite:* JP 012 for JP 151 or equivalent; JP 151 for JP 152

Spanish Course Descriptions

†SP 011–012 Beginning Spanish I, II 3 CR each

For students with no previous Spanish education. Basic grammar patterns, oral practice, reading and writing are studied. Placement by department

†SP 103–104 Advanced Beginning**Spanish I, II 3 CR each**

For students with some knowledge of Spanish (one or two years of high school and not native speakers). Courses review basic grammar patterns. Extensive practice in listening, speaking, reading and writing in Spanish. Placement by department

†SP 151–152 Intermediate**Spanish I, II 3 CR each**

Review of and expanded study of Spanish grammar to consolidate what has been acquired previously. Extensive practice in listening, speaking, reading and writing Spanish enables students to function in a Spanish-speaking environment. *Prerequisite:* SP 012 or SP 104

†SP 201–202 Advanced Spanish**Composition and Grammar I, II 3 CR each**

Focus on most challenging aspects of grammar such as imperfect/preterite or the use of the subjunctive and writing controlled compositions based on selections previously read and discussed. *Prerequisite:* SP 152

SP 203 Spanish for the Professions 3 CR

Designed for students in Nursing, Physical Therapy and Social Work. Emphasis is on special topics related to those professions, focusing on communicating in Spanish. Service learning required. *Prerequisites:* SP 152 or equivalent and permission of the instructor

SP 207–208 Spanish Language**and Culture in Spain I, II 3 CR each**

Four weeks, intensive summer study abroad in Granada, Spain. Students are placed according to their level of language. The courses include extensive practice in listening, speaking, reading and writing of Spanish and serve as an introduction to the culture, customs and history of Spain. Field trips to Sevilla and Córdoba. Permission of Sacred Heart Spanish coordinator

†SP 211–212 Conversation:**Topics for Daily Living I, II 3 CR each**

Emphasis on intensive oral practice, short speeches and group discussions. *Prerequisite:* SP 152 or equivalent

†SP 215–216 Spanish Readings**and Discussion I, II 3 CR each**

Designed to improve reading ability and self-expression through readings chosen from Spanish authors, newspapers and magazines. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 241 Spanish Phonetics and**Phonology 3 CR**

A study of the sounds of the language. Recommended for all Spanish majors and those who expect to teach Spanish. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 251–252 Spanish**Literature I, II 3 CR each**

Spanish literature from the Middle Ages to the present. Oral and written reports are required. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 253–259 Special Topics in the**Literature of Spain 3 CR each**

Course description varies each time the course is offered. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 261–262 Masterpieces of Latin-**American Literature I, II 3 CR each**

Latin-American literature from the Colonial period to the present. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 263–269 Special Topics:**Latin-American Literature 3 CR each**

Course description varies each time the course is offered. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 280 Hispanic Civilization and Culture: Spain 3 CR

History and culture of the Spanish people from their origins to the present day with emphasis on their arts, thought, and lifestyle. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 281 Hispanic Civilization and Culture: Latin America 3 CR

Emphasis on understanding the Spanish-American people through the different periods of their history and their reactions to political, religious and economic problems. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 283 The Hispanic Caribbean 3 CR

A comprehensive study of the main historical and cultural development of the Caribbean world. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

SP 299 Special Topics in Spanish 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 315–320 Contemporary Issues 3 CR each

Discussions based on current materials, including books, newspapers, magazines and movies from the Spanish world. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 341 Spanish Linguistics 3 CR

Teaches the relationship between linguistics and the learning of a new language. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 353–359 Advanced Topics in Spanish Literature 3 CR each

The study of literature from Spain. Course description varies each time the course is offered. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

†SP 363–369 Advanced Topics in Latin-American Literature 3 CR each

The study of literature from Latin America. Description varies each time the course is offered. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

SP 382 The Cultures of Medieval Spain 3 CR

A study of the three cultures and religious traditions comprising Medieval Spain, from the fall of the Roman Empire to 1492: Christian, Moorish (Arab), and Jewish. Varied readings, as well as written assignments, oral presentations, and class discussions are required. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

SP 385 The Society of Golden Age Spain 3 CR

A comprehensive study of the society and culture of Golden Age Spain (1500–1700). Varied readings from different historical and cultural perspectives are required, along with written assignments, class discussion, and oral presentations. *Prerequisites:* SP 201 and SP 202 or permission of the chairperson

SP 399 Independent Study 3 CR

Work on a special topic to be arranged with instructor who directs this work. Permission of the department chairperson is granted to qualified students in Spanish on basis of written prospectus. By special arrangement

Music

The academic Music program, housed in the College of Arts and Sciences, offers general music elective courses as well as performing ensembles. The program provides the environment and opportunity to hear, experience, and participate in the art of music. The study of music both as a knowledgeable listener and/or performer nurtures an important aesthetic dimension of life.

Music, in its many cultural manifestations, serves

as an opportunity to develop imagination, creativity, and understanding, as well as skills and talents. As a non-major program, the program's goal is to encourage students to experience music so that a foundation for continued learning, appreciation and enrichment is created.

Faculty

John Michniewicz, D.M.A., *Assistant Professor*

Required Courses for Music Minor

Track I: Regular (18 credits)

MU 121 Musicianship/Theory

MU 103 Bach to Beethoven

or

MU 104 Brahms to Bernstein

Three credits in applied music

Nine credits from music history or music literature courses

Track II: Performance (18 credits)

MU 121 Musicianship/Theory

MU 103 Bach to Beethoven

or

MU 104 Brahms to Bernstein

Nine credits in applied music (five in an ensemble and four of private lessons)

1 course (Three credits) in a music history or music literature course

Required Courses for Associate Degree with Music Concentration (18 credits)

Same as Track I–Regular or Track II–Performance (above)

Course Descriptions

†MU 102 History of Jazz 3 CR

This course features a study of jazz styles from historical African sources to the contemporary era.

†MU 103 Bach to Beethoven: Their Lives and Music 3 CR

This course focuses on famous compositions and

composers primarily from the Baroque and Classical eras, 1600–1825. Highlights include classics and well-known works by Bach, Mozart, Haydn, and Beethoven. The music of these composers reflects the era in which it was created, but continues to provide contemporary meaning and inspiration to people around the world.

†MU 104 Brahms to Bernstein: Their Lives and Music 3 CR

Highlights of this course include exciting pieces by Romantic and 20th-century composers from 1825 to the present. These composers created music that reflects the various cultures in which they lived, but additionally shows inspiring creativity, individuality, and uniqueness in an ever-changing world.

†MU 112 Music in America 3 CR

U.S. folk, jazz, popular and fine art music are studied in this course. Emphasis is on aural analysis and placing historical and contemporary music in its cultural context.

†MU 114 Latin American and Caribbean Music 3 CR

This course traces the development of the most important Latin American musical styles from their historical folk origins to the present. Focus is on music from Cuba and Brazil.

MU 118 Beginning Music Reading and Writing 3 CR

Designed for those with little prior music reading experience, this course uses free, downloadable computer notation software to study and practice the basic elements of music reading and notation. Intended as a practical course to encourage students to better their understanding and skill in music, students examine musical examples and focus on the completion of their own creative notation projects.

†MU 121 Musicianship I 3 CR

This course focuses on the development and

enhancement of musical skills through music reading and notation, rhythmic and tonal perception and analysis. Other areas covered include the construction and function of scales, intervals and triads. Open to all students. Offered Fall semesters.

†**MU 122 Musicianship II** **3 CR**

This course continues the development of musical skills through further practice with music notation, musical analysis, and aural perception. The construction and function of triads, harmonic motion, rhythm, texture and writing are covered. Offered Spring semesters. *Prerequisite:* MU 121 or by permission

†**MU 125 Music in the Performing Arts** **3 CR**

A study of music and artists in the dramatic and performing arts, both past and present. Focus is on chamber music, opera, and musical theatre.

MU 130–139 Applied Music **1–2 CR**

Private or group music performance courses that may be repeated for credit. Applied Music courses do not satisfy Area B-1 requirements.

MU 131 Private Lessons **1 CR**

Individual instruction in selected instruments or voice. One half-hour lesson per week. Fee required. *Prerequisite:* Departmental permission

MU 132 Private Lessons **2 CR**

Individual instruction in selected instruments or voice. One-hour lesson per week. Fee required. *Prerequisite:* Departmental permission

MU 136 Concert Band **1 CR**

This course develops students' talents and musicianship through participation in a performing instrumental group. The ensemble presents a wide variety of interesting and significant repertoire arranged and written for concert band, in both on- and off-campus concerts and events. *Prerequisite:* Audition and permission

MU 137 Concert Choir **1 CR**

This course develops students' talents and musicianship through participation in a larger vocal ensemble. The choir focuses on the training in and performance of interesting and significant choral works from many different cultures and historical periods. Participants perform in concerts and events both on and off campus. No background is required, but the choir is open to all students by an informal vocal placement interview. *Prerequisite:* Audition

MU 138 Jazz Band **1 CR**

This course develops students' musicianship and musical talent in a contemporary musical art form. The jazz workshop approach develops stylistic and improvisational skills with the goal of presenting concerts and performing. *Prerequisite:* Permission

MU 139 Guitar Ensemble **1 CR**

This course develops students' talents and musicianship through participation in a performing instrumental group. The ensemble presents a wide variety of repertoire arranged and written for guitar in both on- and off-campus concerts and events. *Prerequisite:* Permission

MU 198 Liturgical Choir **1 CR**

This ensemble is open to all singers and instrumentalists by audition who wish to participate in the music of the Sunday evening liturgy. Students meaningfully experience and appreciate the vibrant heritage of the Catholic music tradition. Both contemporary and traditional styles of music are offered in the spirit of prayer. Through practice and presentation of appropriate music, musical skills are utilized, encouraged and further developed. *Prerequisite:* Audition

MU 233 4-Heart Harmony **1 CR**

This advanced mixed chamber choir performs a wide variety of significant and interesting music, including a capella, jazz, pop, show tunes, multicultural and classical choral repertoire.

Participants perform in concerts and events both on and off campus. Members are experienced choral singers and the ensemble is open by interview and vocal audition. *Prerequisite:* Permission

MU/RS 239 Catholic Church Music 3 CR

Interesting and important works from the great tradition of music written for the Catholic Church are viewed through the Church's historical and present liturgical traditions. As a significant component of the Catholic Intellectual Tradition, relevant musical examples from the early through contemporary periods are examined from liturgical, technical, and cultural viewpoints. The Church's reaction to and use of the wide variety of musical compositions are examined and discussed.

MU 299 Topics in Music 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc.

Philosophy

The philosophical experience is considered integral to the intellectual and cultural development of today's student. In our increasingly complex and dynamic culture, the growth of novel and changing ideas unsettles traditional patterns of thought and action. As a result, the role of philosophy becomes more vital, for it addresses the conflict between the enduring insights of the past and the new discoveries and theories of the present in an attempt to attain a coherent philosophy of life.

In whatever way the student comes to Philosophy—whether it be to satisfy a core, major, or elective requirement—the department seeks to enrich the student's life-experience by making available the broad and generous ideas that have shaped the contemporary intellectual world. The program provides a broad range of

electives dealing with historical movements, great philosophical figures of the past and present, perennial philosophical themes, and contemporary issues.

Faculty

John E. Jalbert, Ph.D., *Professor*

Edward Papa, Ph.D., *Associate Professor*

Michael Ventimiglia, Ph.D., *Associate Professor*

Major in Philosophy

The major in Philosophy requires the completion of 30 credits.

Required Courses

PH 101 Introduction to the Problems of Philosophy

PH 212 Practical Logic

PH 231 Philosophy of Knowledge

PH 251 Ethics or PH 258 Medical Ethics

Six Philosophy electives

Minor in Philosophy

The minor in Philosophy requires the completion of the following 18 credits:

Required Courses

PH 101 Introduction to the Problems of Philosophy

Five Philosophy electives from 200- or 300-level courses.

Associate in Arts General Studies

Emphasis Requirements (15 credits)

PH 101 Introduction to the Problems of Philosophy

Four Philosophy electives

Course Descriptions

PHCC104 The Human Search for Truth, Justice and Common Good

This course forms part of Sacred Heart University's common core sequence *The Human Journey*. Each course in *The Human Journey* addresses four fundamental questions of human meaning

and value. These questions are: (1) What does it mean to be human? (2) What does it mean to live a life of meaning and purpose? (3) What does it mean to understand and appreciate the natural world? (4) What does it mean to forge a more just society for the common good?

The course investigates philosophical and religious understanding of the human condition as a theme running through the four questions. In dialogue with classic and contemporary texts from a wide range of philosophical and religious traditions, particularly the Catholic intellectual tradition, the professor and students explore the quest of the ethical human life as it is lived both personally and socially.

†PH 101 Introduction to the Problems of Philosophy 3 CR
Philosophy is defined for the beginning student through an exploration of the branches of philosophy and their respective problems.

†PH 212 Practical Logic 3 CR
Practice of logical analysis in classroom exercises. Focuses on informal logic, how to make ideas clear, reason correctly and evaluate evidence used to substantiate a truth claim.

†PH 214 The Philosophy of Human Communication 3 CR
Analyzes the formal structure of rhetoric using a classical model and applies it to contemporary political and social issues in philosophical disputations. *Prerequisite:* PH 101

†PH 221 Historical Survey of Philosophy 3 CR
Primary texts from the philosophers of ancient Greece, the Hellenistic-Roman period and the Middle Ages. *Prerequisite:* PH 101

†PH 222 Understanding Our Universe 3 CR
Major philosophical, theological, scientific issues in cosmology. Creation, evolution, and fate of the universe. Design and chance, freedom and

determinism, God and the universe. *Prerequisite:* PH 101

†PH 225 Philosophy of Plato 3 CR
The nature of the philosophical life is examined through an exploration of selected Platonic dialogues. *Prerequisite:* PH 101

†PH 226 The Philosophy of Aristotle 3 CR
Emphasizes the ethics, politics, and metaphysics of the Aristotelian system and its contrast to the Platonic synthesis. *Prerequisite:* PH 101

†PH 231 Philosophy of Knowledge 3 CR
The conditions that make knowledge possible and the criteria of truth and falsity. Selected representative historical thinkers. *Prerequisite:* PH 101

†PH 241 Medieval Philosophy 3 CR
The Aristotelian tradition as developed within Islam, Judaism, and Christianity. *Prerequisite:* PH 101

†PH 245 The Philosophy of St. Augustine 3 CR
Examines Augustine's contribution to the development of Roman Catholic philosophy and theology. *Prerequisite:* PH 101

†PH 251 Ethics 3 CR
Primary texts from notable moral philosophers in the Western philosophical tradition, from Socrates to Rawls. *Prerequisite:* PH 101

†PH 255 Political Philosophy 3 CR
Primary texts from the history of political thought including Plato, Lao-Tzu, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Marx, Mill and Rawls. *Prerequisite:* PH 101

†PH 256 The Philosophy of Technology 3 CR
Representative views of the social role of technology. Two fundamental questions are addressed. The extent of technology's impact on social institutions and individual lives. And, to what degree is

this impact beneficial or harmful? *Prerequisite:* PH 101

†PH 258 Medical Ethics 3 CR

Examines the ethical and legal issues surrounding abortion, physician-assisted suicide, euthanasia, genetic cloning, genetic therapy/enhancement, genetic patenting, and health care allocation. *Prerequisite:* PH 101

†PH 270 Philosophical Anthropology 3 CR

Reflections on the nature and meaning of human existence, especially in contemporary philosophy such as existentialism and Marxism. Writings of Buber and Scheler on human nature are studied. *Prerequisite:* PH 101

†PH 272 Metaphysics 3 CR

Four movements in the development of the Western metaphysical tradition: Aristotle, Thomas Aquinas, Kant and Heidegger. *Prerequisite:* PH 101

†PH 278 East/West Comparative Philosophy 3 CR

Heidegger and East Asian thought, the origin of Greek and Chinese philosophy; the Kyoto school; Nishitani's Religion and Nothingness. *Prerequisite:* PH 101

†PH 283 Philosophical Theology 3 CR

The problem of God before and after Kant's "Copernical Revolution," phenomenology of religion and postmodern theology. *Prerequisite:* PH 101

†PH 284 Philosophy of Film 3CR

Uses contemporary films to lead students through advanced philosophical examination of issues such as epistemology, ethics, religion, technology, and the nature of the mind. *Prerequisite:* PH 101

†PH 299 Special Topics in Philosophy 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an

experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

†PH 306 Existentialism 3 CR

Nineteenth- and 20th-century existentialism, especially the thought of Kierkegaard, Nietzsche, Heidegger and Sartre. *Prerequisite:* PH 101

†PH 322 American Philosophy and Culture 3 CR

Interaction of American philosophical thought and the American experience as revealed in the philosophies of Edwards, Emerson, Thoreau, Peirce, James and Dewey. *Prerequisite:* PH 101

†PH 331 Oriental Thought 3 CR

An introduction to the philosophies of India, China and Japan. A presentation and analysis of the major schools of philosophy, including Hinduism, Buddhism, the Confucian school, Taoism and Zen Buddhism. Topics include finding one's self, transformation, compassion, moral cultivation, sagehood and enlightenment. *Prerequisite:* PH 101

†PH 360 Evolution, Philosophy, and Christianity 3CR

To gain an understanding of evolutionary biology and the philosophical difficulties it creates for Christianity and our understanding of human nature. *Prerequisite:* PH 101

†PH 380 Philosophy of Wilderness 3CR

The concept of wilderness has always both shaped and challenged understandings of nature, humankind, and civilization. The concept is explored in ancient philosophy, modernism, Thoreau, and contemporary ecological thought. *Prerequisite:* PH 101

†PH 381 Love in the Western Tradition 3CR

Examines the idea of love in the Western intellectual tradition, from the Greeks to today.

Philosophical problems arising from the scientific study of love and altruism are also investigated.

Prerequisite: PH 101

†PH 382 Problems in Contemporary

Philosophy 3 CR

Topics, selected by the instructor, such as war and peace, near-death studies, the philosophical novel, new directions in philosophy or the crisis in professional ethics. *Prerequisite:* PH 101

†PH 383 The Philosophy of

St. Thomas Aquinas 3 CR

The existence and nature of God, human knowledge, the state, natural and divine law, virtue, grace and the Incarnation as explicated in the *Summa Theologica*. *Prerequisite:* PH 101

PH 399 Independent Study 1–3 CR

An area of study for which no course is presently provided. The student must find an instructor competent in his or her proposed topic and secure the permission of the chairperson and the dean. *Prerequisite:* PH 101

Physics

The physics curriculum, which is a nonmajor program, provides introductory physics courses for students in science majors, Pre-Physical Therapy, Pre-Medical, Pre-Dental, Pre-Veterinary and pre-professional programs in health-related careers. Courses of general interest to meet core science requirements for the nonscience major are also offered.

Faculty

Joel Block, Ed.D., *Visiting Assistant Professor*

Marlina Slamet, Ph.D., *Associate Professor*

Course Descriptions

†PY 045 Physical Geology 3 CR

Students are introduced to the forces and phenomena that have created earth. The State of Connecticut will be utilized as the laboratory illustrating the theories presented in the classroom. Participants will be involved in process thinking,

problem solving, and the application of knowledge in a field laboratory setting. Observation, data collection, and hypothesizing are utilized in individual and group investigations.

†PY 055 Science and the Bible 3 CR

This course investigates selected events noted in the Bible: Creation, Eve, Moses' Ten Plagues, Noah's Flood, Sodom and Gomorrah, and the Star of Bethlehem.

†PY 090 Basic Astronomy 3 CR

Explores the universe briefly. Emphasis is on the solar system and recent space explorations. Observations of the sky and/or visit(s) to planetariums.

†PY 100 Elements of Physics 4 CR

Covers the basic laws of mechanics, properties of matter, electricity, magnetism and modern physics with an introduction to quantitative laboratory. Designed for health-related professions. *Prerequisite:* MA 006 or equivalent

PY 105 First Half of General Physics I 3 CR

Noncalculus-based course covering the first half of the material in the standard General Physics I (PY 111): units, vectors, 1D and 2D motion, concepts of force, torque and static equilibrium. Intended for students who do not have a strong background in problem solving and math skills, or have never taken physics courses before. Should not be taken with General Physics I Lab (PY 113). *Prerequisite:* MA 140 or equivalent

PY 106 Second Half of General

Physics I 3 CR

Continuation of PY 105. Noncalculus-based course covering the second half of the material in the standard General Physics I (PY 111): energy, work, momentum, rotational motion, gravitation, fluid mechanics, temperature and thermal expansion. Intended for students who do not have a strong background in problem solving and math skills. Students who have completed this course

may register for General Physics II (PY 112).
Prerequisite: PY 105

†PY 111 General Physics I 3 CR
Noncalculus-based course covering the basic principles of mechanics (units, vectors, 1D and 2D motion, concepts of force, torque, static equilibrium, energy, work, momentum, rotational motion, and gravitation), fluid mechanics, temperature and thermal expansion. Students who do not have a strong background in problem solving and math skills have an option to take the 2-semester sequence (PY 105 and PY 106), instead of PY 111. *Prerequisite:* MA 140 or equivalent

†PY 112 General Physics II 3 CR
Noncalculus-based course covering basic principles of thermodynamics, wave motion, sound, electricity, magnetism, light and geometrical optics. *Prerequisite:* PY 106 or PY 111

PY 113 Physics Laboratory I 1 CR
Fundamental training in physical measurements in mechanics (base physical quantities, vectors, acceleration of gravity, concepts of force, torque, static equilibrium, energy, momentum, rotational motion), and Archimedes' principle. *Corequisite:* PY 106 or PY 111; PY 113 can also be taken after completion of PY 106 or PY 111

PY 114 Physics Laboratory II 1 CR
Fundamental training in physical measurements in specific heat, wave motion, sound, electricity, light and optical devices. *Corequisite:* PY 112; PY 114 can also be taken after completion of PY 112

†PY 151 Principles of Physics I 3 CR
Calculus-based course, covering basic principles of mechanics (units, vectors, 1D and 2D motion, concepts of force, torque, static equilibrium, energy, work, momentum, rotational motion, and gravitation), and fluid mechanics. *Prerequisite:* MA 152 or equivalent

†PY 152 Principles of Physics II 3 CR
Calculus-based course, covering basic principles of thermodynamics, wave motion, sound, electric-

ity, magnetism, light and geometrical optics.
Prerequisite: PY 151

PY 153 Physics Laboratory I 1 CR
Same as PY 113. *Corequisite:* PY 151; PY 153 can also be taken after completion of PY 151

PY 154 Physics Laboratory II 1 CR
Same as PY 114. *Corequisite:* PY 152; PY 154 can also be taken after completion of PY 152

Political Science

The Political Science major seeks to awaken in students an appreciation and an understanding of politics and government in the broadest and deepest sense. It considers democratic governance the key to civilization, and ethics as central to democratic life.

Courses are offered in four major areas: American politics, comparative politics, international relations and political philosophy and theory. Classroom learning is enriched in a number of ways, including field trips to the state Capitol, Washington, D.C.; internships with legislators in the Connecticut General Assembly; Washington and district office internships with national legislators; election campaign and party organization internships; and internships with public administrators.

Students who major or minor in Political Science prepare themselves for careers in law, teaching, elective office, government service, many areas of business and not-for-profit management, international business, journalism, campaign management and other endeavors.

Faculty

Lesley A. DeNardis, Ph.D., *Assistant Professor*
Alka Jauhari, Ph.D., *Lecturer*
Steven J. Michels, Ph.D., *Associate Professor*
Gary L. Rose, Ph.D., *Professor*

Major in Political Science

For students entering Sacred Heart University in

the Academic Year 2003–2004, the major in Political Science requires the completion of 36 credits. A minimum of 27 credits must be earned through formal classroom instruction. The balance of credits can be earned through formal coursework or Political Science internships.

Required Courses

PO 121 Introduction to American Government
 PO 122 Introduction to International Relations
 PO 301 Ancient and Medieval Political Thought
 PO 302 Modern Political Thought
 PO 395 Senior Seminar in Political Science
 Students are also required to take at least one course in Comparative Politics. The remaining 18 credits in Political Science can be taken as electives

Comparative Politics

PO 309 British Politics
 PO 310 Irish Politics
 PO 311 Comparative Western European Politics
 PO 312 Comparative Eastern European Politics
 PO 314 Middle East Politics
 PO 315 Latin American Politics
 PO 316 South Asian Politics

Political Philosophy and Theory

PO 301 Ancient and Medieval Political Thought
 PO 302 Modern Political Thought
 PO 303 Radical Political Thought
 PO 304 American Political Thought
 PO 305 Ethics and Politics: Profiles of Practicing Politicians
 PO 306 Liberalism
 PO 307 Conservatism

Minor in Political Science

The minor in Political Science requires the completion of the following 18 credits:

Required Courses

PO 121 Introduction to American Government
 PO 122 Introduction to International Relations
 One Political Theory elective
 One Comparative Politics elective
 Two Political Science electives

Associate in Arts General Studies Emphasis

Requirements (15 credits)

PO 121 Introduction to American Government
 PO 122 Introduction to International Relations
 Three Political Science electives

Course Descriptions

POCC103 The Human Community: The Individual and Society

This course is the third of four courses in the *The Human Journey*, Sacred Heart University's common core. It emphasizes the social and political dimensions of the core questions on human meaning and value. These core questions are explored through the major political philosophers who have sought answers to the following: (1) What does it mean to be human? (2) What does it mean to live a life of meaning and purpose? (3) What does it mean to understand and appreciate the natural world? (4) What does it mean to forge a more just society for the common good?

†PO 121 Introduction to American Government 3 CR

Explores a variety of areas that collectively comprise the American political system. Examines the theoretical foundation of American government, the U.S. Constitution, political behavior, Congress, the presidency and the Supreme Court.

†PO 122 Introduction to International Relations 3 CR

Focuses on fundamental factors in understanding international relations. Sovereignty, nation-states, national interests, power, diplomacy, United Nations, war, terrorism, ethnicity and low-intensity warfare, the environment and global politics are studied.

†PO 200 Approaches to Political Science 3 CR

What is politics? And how best can we study it? This course examines how the study of politics has changed since Aristotle coined the term "political

science” more than 2,000 years ago. Particular emphasis is on the development of political science as a discipline in the 20th century.

†PO 212 American State and Local Government 3 CR

Examines the subnational level of American politics. Topics include the constitutional position of state governments, federal-state interaction, financing of state governments, political parties, group activity and public policies. *Prerequisite:* PO 121

†PO 213 Lobbying and the Legislative Process 3 CR

Focuses on the central role of lobbyists and interest groups within the context of the lawmaking process. Lobbying strategies and linkages between lobbyists and lawmakers are explored. Guest speakers and trip to the state capitol supplement class lectures.

†PO 215 Political Parties 3 CR

Focuses on the role of political parties in America’s democracy. Examines the structure and function of party organization, behavior of the American electorate and effectiveness of parties in the governing process. Platforms and categories of minor parties are also discussed. *Prerequisite:* PO 121

†PO 216 Congress and the Legislative Process 3 CR

Examines the Constitutional powers of Congress, historical development, legislative process and relationship with executive branch of government. *Prerequisite:* PO 121

†PO 217 The American Presidency 3 CR

Traces the role of the chief executive in the American political system. Attention is given to the evolution, functions and limits of executive leadership, relationship with Congress, public opinion, and impact of individual presidents are explored. *Prerequisite:* PO 121

†PO 218 The Politics of Presidential Elections 3 CR

Explores the dimensions of presidential elections

and controversial issues associated with the selection process. Topics include political coalitions, campaign strategy, the role of media and money, conventions and presidential debates. *Prerequisite:* PO 121

†PO 240 War 3 CR

Topics include the causes of war, case studies of major wars, theories of instinctual aggression, psychological behavior, ethnicity, national interests, imperialism, economics, international systems and other topics.

†PO 241 Peace 3 CR

Presents religious and philosophical roots of peace, functionalism, the changing role of international organizations in the 21st century, international norms, global interdependence and other topics.

†PO 242 International Organizations 3 CR

Focuses on the origin, evolution, structure and functions of regional and global intergovernmental and nongovernmental organizations. Special attention is given to the changing role of the post–Cold War United Nations.

†PO 243 Terrorism 3 CR

History and evolution of terrorism in its global, cultural, psychological, religious and secular contexts. Special focus on military, diplomatic, political and economic responses as nuclear, chemical, biological and cyberwarfare capabilities spread in the 21st century.

†PO 244 American Foreign Policy since 1945 3 CR

Examines themes of American foreign policy. Topics include containment, deterrence, détente, changing bases of national power, foreign policy development, terrorism, narco-criminality and environmental issues.

†PO 285 Future Politics 3 CR

Explores the transformation of America and the planet. Consequences of shift from industrial to

informational to networked economy on environment, society, careers, domestic and international politics are studied.

†PO 291 Ethics and International Politics 3 CR

Role of ethics and morality in international politics. Synthesis of religion and Idealism, national interest and Realism in foreign policy.

†PO 299 Special Topics in Political Science 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

†PO 301 Ancient and Medieval Political Thought 3 CR

What is justice? What is the best way of life? This course examines such thinkers as Plato and Aristotle as they address these concerns. This course also includes the medieval response to this tradition, those who sought to reconcile the ancients with revealed religion.

†PO 302 Modern Political Thought 3 CR

The problem with the ancient way of thinking, a modern would say, is that it concentrated on how we ought to live, rather than how we do live. Readings include those by the originators of modern political thought as well as those questioning whether the modern project is desirable or even possible.

†PO 303 Radical Political Thought 3 CR

Have the benefits promised by liberal democracy been realized fully and by all individuals equally? This course focuses on those who claim to be neglected, alienated or oppressed by conventional

politics and its institutions.

†PO 304 American Political Thought 3 CR

The Constitution of 1787 was based on speculation and a series of untested principles: it is possible for a territory as large as the United States to be self-governing; self-interest can be made to serve the common good; and minority rights can be protected in a system based on majority rule. This course examines documents related to the founding and other readings that shape, question and are inspired by political life in our country.

†PO 305 Ethics and Politics: Profiles of Practicing Politicians 3 CR

Readings in ethics and the lives of practicing politicians from George Washington to the present that reaffirm foundations of democratic life, including virtue, integrity, honor and trust. Class time includes dialogue with public officials.

†PO 306 Liberalism 3 CR

Liberalism emerged in the 17th century to advance individual liberty and a free and open society against religious conformity and ascribed status. This course examines this radical change, how liberalism itself has since changed, and the role that liberalism plays in politics today.

†PO 307 Conservatism 3 CR

What conservatives have in common is an unwavering reverence for history and tradition. Consequently, what it means to be a conservative is determined by time and place. This course examines many variants of conservatism, including 18th-century Europe and the contemporary United States.

†PO 308 Theories of Political Economy 3 CR

Examines the foundation of and challenges to market capitalism. The role of political actors, shortcomings of the market, and the trend toward globalization are emphasized. Seminal works of Adam Smith, Karl Marx and other economic theo-

rists are explored.

†PO 309 British Politics 3 CR

Examines the politics and governing structures of Great Britain as well as the contemporary challenges of the 21st century.

†PO 310 Irish Politics 3 CR

Examines the politics and governing structures of Ireland as well as the contemporary challenges of the 21st century.

†PO 311 Comparative Western European Politics 3 CR

A comparative analysis of the governments and politics of France, Germany, and the United Kingdom. Similarities and differences are explored with respect to patterns of political culture, behavior, and institutions.

†PO 312 Comparative Eastern European Politics 3 CR

Examines the political systems of Eastern Europe as they reshape themselves in the aftermath of Soviet domination and tyranny. Political and economic relations with the European Union are studied.

†PO 313 The Politics of European Integration 3 CR

Explores the political complexities associated with the integration of European nations. The structure and function of European governing institutions are examined and analyzed.

†PO 314 Middle East Politics 3 CR

Problems and prospects of the Middle East. Area history, culture, Islam, intrusion of the West, oil, impact of personalities, Arab-Israeli problem, modernization and Islamic fundamentalism are studied.

†PO 315 Latin American Politics 3 CR

An introduction to the political culture and structures of Latin America. Explores key themes and challenges for the region, including democratization, economic development, violence and revolution, militarism and the relationship with the United States.

†PO 316 South Asian Politics 3 CR

Explores the political cultures, religious traditions, governing structures, key personalities and political tensions in several South Asian countries.

†PO 317 African Politics 3 CR

Study of African politics during colonial and post-colonial periods. Roots of political conflict, barriers to conflict resolution and relationship between African nations and the United States are explored.

†PO 318 Interpersonal Communication in the Culturally Diverse Workplace 3 CR

Theory and practice of face-to-face communication in culturally diverse organizations. Cultural paradigms of major workforce demographic groups. Emphasis is on acquisition of appropriate communication skills.

†PO 319 Political Psychology 3 CR

Themes and concepts related to the expanding field of political psychology. Topics include the impact of media, nationalism, extremism and security. The psychology of leadership is examined through case studies.

†PO 320 Modern Political Economy 3 CR

Examines free market and centralized approaches to economic development. Impact of approaches toward income distribution, welfare policy, health care and social security are explored through case studies.

†PO 321 Public Administration 3 CR

Survey of organizational theories and professional skills useful to those contemplating public sector service. Addresses public service context, planning, budgeting, communication, leadership and other skills.

†PO 322 American Public Policy 3 CR

Models of policy making. Examines government policies toward civil, gender and minority rights, crime, health, welfare, education, environment and other areas.

†PO 323 Leadership of Organizations 3 CR

Focuses on the role of leadership in organizations.

Readings, discussions, workshops, simulations and role-playing to sharpen student skills in career areas. Intended for non-business majors.

†**PO 325 Politics, Law and Judicial Behavior** **3 CR**

Examines the judiciary's role in the American political process. Topics include the nature of law, political influence in judicial decision making, court organization, judicial recruitment and the powers and limitations of the judiciary.
Prerequisite: PO 121

†**PO 330 Computer-Simulated Foreign Policy** **3 CR**

Simulations of international political systems. College students from the United States and around the world interactively conduct foreign policy of actual nations via the Internet.

†**PO 341 International Law** **3 CR**

Traces the development of international law and reviews principles and cases in major topical areas.

†**PO 351/CJ 200 Constitutional Law** **3 CR**

An inquiry into American constitutional law through the study of outstanding cases. Attention is given to the development of constitutional doctrines and the processes of legal reasoning.
Prerequisite: PO 121

†**PO 352 The First Amendment** **3 CR**

Examines U.S. Supreme Court cases involving the freedom of religion, speech, press, assembly and petition. Special attention is given to the balance between personal liberty and societal order.
Prerequisite: PO 121

PO 391 Internship Program **3–6 CR**

Congressional district staff, state Capitol or Washington, D.C., internships; election campaign and party organization internships; not-for-profit organization internships and others. *Prerequisite:* Permission of department chair

PO 395 Senior Seminar in Political Science **3 CR**

Advanced study of a particular theme or topic in a

seminar setting. Required capstone course for Political Science majors. *Prerequisite:* Senior standing

PO 399 Independent Study **1–3 CR**

Guided study of a topic that goes beyond normal course offerings under the direction of a member of the Political Science faculty. Approval of the chair of the Political Science program required. By special arrangement.

Psychology

The Psychology program provides its students with a basic foundation in the scientific study of human behavior. This background is of value to two groups of students: those who enter the employment market after completion of the Baccalaureate degree and those who further their education through graduate study and pursue a career in psychology or a related field.

The department offers courses on conducting experimental research, as well as providing internship opportunities and a wide range of elective courses covering many different areas of interest.

Faculty

Rachel E. Bowman, Ph.D., *Associate Professor*

Maureen A. Conard, Ph.D., *Associate Professor*

Jennifer Gosselin, Ph.D., *Visiting Assistant Professor*

Ruth M. Grant, Ph.D., *Visiting Assistant Professor*

Ronald Hamel, M.A., *Instructor*

Kathryn M. LaFontana, Ph.D., *Associate Professor*

William Mayer, Psy.D., *Visiting Assistant Professor*

Mindy Miserendino, Ph.D., *Associate Professor*

Shirley Pavone, Ph.D., *Visiting Assistant Professor*

Nina Turner, Ph.D., *Assistant Professor*

Christina J. Taylor, Ph.D., *Associate Professor*

Amy Van Buren, Ph.D., *Associate Professor*

Albert Wakin, M.S., Sixth Year, *Instructor*

Deirdre Yeater, Ph.D., *Assistant Professor*

Major in Psychology

The major in Psychology requires the completion of 38 credits.

Required Courses

PS 110 Introduction to Psychology

PS 111 Thinking Critically about Psychological Science

Three Psychology electives

PS 301 Nonexperimental Research

PS 302 Experimental Research (4 credits)

PS 335 Human and Animal Learning

PS 351 Brain and Behavior

PS 380 Advanced Psychological Research (4 credits)

PS 382 Systems and Theories of Psychology

PS 396/397/398 Capstone Experience in Psychology (one course)

Minor in Psychology

The minor in Psychology requires the completion of the following 18 credits.

Required Courses for Minor

PS 110 Introduction to Psychology

PS 111 Thinking Critically about Psychological Science

PS 382 Systems and Theories of Psychology

Three Psychology electives

Associate in Arts General Studies

Emphasis Requirements Psychology (15 credits)

PS 110 Introduction to Psychology

PS 111 Thinking Critically about Psychological Science

Three Psychology electives

Course Descriptions

PSCC103 The Human Community: The Individual and Society

This course is part of Sacred Heart University's common core sequence *The Human Journey*. Each course in the common core addresses four fundamental questions of human meaning and value. These four questions serve as the unifying

frame for all the courses in *The Common Core: The Human Journey*.

This particular course engages students in a study of the relationship between science and the Catholic intellectual tradition with a particular focus on psychology—the science of human behavior and mental processes. The Catholic intellectual tradition—which is characterized by rigorous intellectual inquiry, a search for truth, and an openness to scientific ideas—and the science of psychology have much to offer one another in helping us to understand more fully ourselves as human persons, as well as the social and physical environments in which we live. Other social and natural sciences contribute as well to this understanding.

This examination of psychological science is framed by four enduring questions of human meaning and value: (1) What does it mean to be human? (2) What does it mean to live a life of meaning and purpose? (3) What does it mean to appreciate and understand the natural world? (4) What does it mean to forge a more just society for the common good?

PS 110 Introduction to Psychology 3 CR

Introduction to psychology as the science of behavior, focusing on the physiological, cognitive, learning, sociocultural, and psychodynamic bases of behavior. Note: Students planning to major in Psychology must achieve a C+ or better in this course before moving on to PS 111.

PS 111 Thinking Critically about Psychological Science 3 CR

This course is designed to help students develop the critical thinking skills necessary to understand psychology as the science of human behavior. with a C+ or better. Note: Students must achieve a C+ or better in this course before moving on to any of the 300-level courses in Psychology. *Prerequisite:* PS 110 or PS 101

PS 211 Human Sexuality 3 CR

An in-depth analysis of issues relating to human

sexuality, including historical perspectives and their significance, research evaluation, gender identity, communication, sexual response and sexual dysfunction and its treatment. *Prerequisite:* PS 110 or PS 101

PS 212 Abnormal Psychology 3 CR

Examines various mental disorders, such as schizophrenia, bipolar disorder, brain damage, retardation, sexual deviations. *Prerequisite:* PS 110 or PS 101

PS 215 Social Psychology: Interpersonal Factors 3 CR

Explores how people are affected by the persons around them. Topics include: person perception, first impressions, interpersonal attraction, non-verbal communication, romantic love, prejudice, stereotyping, aggression, conformity, obedience and environmental influences on behavior. *Prerequisite:* PS 110 or PS 101

PS 220 Drugs: Use and Abuse in Contemporary Society 3 CR

Examines the nature of drug use, legal and illegal, in contemporary society. Emphasis is on behavioral and physiological effects of psychoactive substances, addictions, rehabilitation strategies and ethical issues. *Prerequisite:* PS 110 or PS 101

PS 222 Sports Psychology 3 CR

Provides information on and facilitates understanding of individual sport behavior. Emphasis is on the psychological constructs and concepts that relate to and help explain the phenomena of sports performance. *Prerequisite:* PS 110 or PS 101

PS 224/PO 319 Political Psychology 3 CR

Themes and concepts related to the expanding field of political psychology. Topics include the media, nationalism, extremism, and security. Psychology of leadership examined through case studies. *Prerequisite:* PS 110 or PS 101

PS 233 Introduction to Clinical Psychology 3 CR

Provides an understanding of basic principles and

tools used in clinical practice to implement behavioral interventions. Students are expected to master some of the elemental principles of cognitive-behavioral therapy and to demonstrate the applicability of these principles to their own experience. *Prerequisite:* PS 110 or PS 101

PS 241 Psychology of Personality 3 CR

Explores scientific perspectives on personality including trait, biological, Freudian, neo-Freudian, social learning and humanistic. *Prerequisite:* PS 110 or PS 101

PS 251 Life Span Development 4 CR

This is a life span development course including traditional and contemporary developmental theories as applied to areas such as personality, cognitive, social-emotional, and moral-spiritual development. This course is intended to fulfill prerequisites for Nursing and pre-Occupational Therapy students. *Prerequisite:* PS 110 or PS 101. Open to Nursing and Pre-Occupational Therapy, non-Psychology majors only

PS 252 Child Development Psychology 3 CR

Traces development from conception through childhood, including basic concepts and theories as applied to psychological processes of perception, cognition, social interactions, affective and moral development. *Prerequisite:* PS 110 or PS 101

PS 255 Industrial and Organizational Psychology 3 CR

Explores theories and methods involved in application of the psychological principles in work settings. Emphasis is on understanding theory, research, learning methods and techniques used in practice. *Prerequisite:* PS 110 or PS 101

PS 256 Consumer Psychology 3 CR

Examines psychological, social, and behavioral processes involved in consumer behavior, with a special emphasis on ethical issues. *Prerequisite:* PS 110 or PS 101

PS 273 Adolescent Development 3 CR

An in-depth study of developmental and behavioral issues in adolescence. Emphasis is on adjustment to adolescent roles, the search for self-identity, and healthy and unhealthy personality development. *Prerequisite:* PS 110 or PS 101

PS 274 Adult Development 3 CR

Considers various psychological issues and developmental tasks of adulthood and middle age, psychological characteristics of the elderly, and the psychology of death and dying. *Prerequisite:* PS 110 or PS 101

PS 275 Psychology of Women 3 CR

Surveys and examines current research and theories about women and gender. Topics include: gender-role stereotypes, attitudes toward women, gender-role socialization, women and work, sexuality, marriage, love and the biology of women. *Prerequisite:* PS 110 or PS 101

PS 285 Psychological Counseling I 3 CR

Deals with the fundamental principles of counseling, and involves the study of several different theoretical approaches, including client-centered and rational-emotive. *Prerequisite:* PS 110 or PS 101

PS 286 Psychological Counseling II 3 CR

Presents further dimensions of the helping relationship and the approaches of reality, cognitive and Gestalt therapy. Audiotapes of students' counseling efforts are critiqued in class. *Prerequisite:* PS 285

PS 295 Health Psychology 3 CR

Focuses on the relationship between attitudes and personality factors and health. Emphasis is on stress management and behavioral change methods for health improvement and maintenance. *Prerequisite:* PS 110 or PS 101

PS 299 Special Topics in Psychology 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely

topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

PS 301 Nonexperimental Research 3 CR

Students learn how to do primary quantitative research in psychology and to apply basic statistical principles to data collected using the scientific method. Emphasis is on descriptive, correlational, and other nonexperimental designs. *Prerequisites:* PS 111 with a C+ or better, MA 131 plus one additional college-level mathematics course with an average of C+ or better across both mathematics courses with neither grade below C

PS 302 Experimental Research 4 CR

Students continue to learn how to do primary quantitative research in psychology and to apply basic statistical principles to data collected using the scientific method. Emphasis is on hypothesis testing in experimental and quasi-experimental designs, with special consideration given to the control of extraneous variables. *Prerequisite:* PS 301, with at least a C+

PS 313 Abnormal Psychology in Film 3 CR

Study of the diagnosis, causes, and treatment of the major psychological disorders through examination of their portrayal in popular films. *Prerequisite:* PS 111 with a C+ or better

PS 331 Psychological Tests and Measurements 3 CR

Examines principles, theories, applications, and ethics of psychological tests used for clinical, educational, industrial, or legal purposes. Specific tests and issues unique to their use and abuse are presented. *Prerequisite:* PS 111 with a C+ or better

PS 335 Human and Animal Learning 3 CR

Explores theories of learning from their historical

origin to the present, and focuses on how these theories can be applied to the “real world.” Students will gain insight into the factors that influence their own behavior, as well as the behavior of others. *Prerequisite:* PS 111 with a C+ or better or BI 111/113

PS 350/BI 205 Essentials of Neuroscience 3 CR

Introduces students to the field of neuroscience, which combines biology and psychology into a single area of study. Topics range from the cellular and molecular physiology of neurons to issues of human language, cognition, mental illness, and drug use. *Prerequisites:* PS 111 with a C+ or better or BI 111/113

PS 351 Brain and Behavior 3 CR

Examines the molecular and molar views of the nervous and endocrine systems and emphasizes the roles of these systems in behavior. *Prerequisite:* PS 111 with a C+ or better or BI 111/113

PS 352 Hormones and Behavior 3 CR

This course examines the hormonal mediation of various behaviors, including play, aggression, parenting and cognitive functioning. *Prerequisite:* PS 111 with a C+ or better or BI 111/113

PS 353 Psychopharmacology 3 CR

This course presents current data and theories in psychopharmacology and drug abuse research. Basic principles of pharmacology, neurotransmission and drug use are covered. *Prerequisite:* PS 111 with a C+ or better or BI 111/113

PS 380 Advanced Psychological Research 4 CR

Covers research techniques and literature in a particular area of psychology. Laboratory work is included. *Prerequisite:* PS 302 with a C+ or better

PS 382 Systems and Theories of Psychology 3 CR

An historical survey of theoretical formulations

and systems in psychology. Evaluates structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis and humanistic and cognitive orientation. *Prerequisites:* PS 111 with a C+ or better, Senior Psychology majors or minors or departmental permission

PS 389 Advanced Special Topics 3 CR

Designates new or occasional upper-level courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, reflect a faculty member's particular interest, or offer an alternative to existing courses. *Prerequisite:* PS 111 with a C+ or better

PS 390–395 Psychological Research 1–6 CR

Research in the basic areas of scientific psychology performed under the supervision of participating faculty. By special arrangement with faculty member.

PS 396 Capstone: Psychology Internship 3 CR

A senior course which integrates theory and practice with supervised placement in agencies, schools and/or institutions. Seminars focus on career assessment, personal growth and work skills. *Prerequisites:* PS 380, Senior Psychology majors

PS 397 Capstone: Psychological Research 3 CR

A senior course in which students conduct research under the supervision of a faculty member. Course may involve a review and discussion of relevant literature in a seminar format and/or data collection in a laboratory setting. Intended for students who are planning to go to graduate school in Psychology. *Prerequisites:* PS 380, Senior Psychology majors, by permission of department

PS 398 Capstone: Practicum Project 3 CR

A senior course in which students participate in a community service and/or research project to learn a set of practical skills and apply this knowl-

edge to their other Psychology courses in a career-related setting. *Prerequisites:* PS 380, Senior Psychology majors

Note: The department may allow other courses to substitute for PS 396, PS 397, or PS 398, provided the course meets certain criteria and is approved by the chair.

Religious Studies

Throughout human history, religion has played an enormous role in shaping human actions and perceptions, as well as social institutions and values. The academic study of religion involves a sympathetic yet critical examination of the human attempt to answer the questions, “Who are we and why are we here?” It also allows us to understand better the complex world in which we live. The study of religion uses the methods of several disciplines, including theology, philosophy, history, psychology, sociology, anthropology, and literary criticism. The goals of the program are that students engage in critical dialogue with their own religious traditions and other traditions; understand these traditions in their complexity; and articulate coherent, religiously informed answers to basic questions of human meaning.

The Religious Studies major allows the student to explore numerous topics within the broad domain of religion, such as theology, Bible, ethics, world religions, myth, ritual, and issues of sexuality and gender in world religions. This major can easily combine with a second major and with any minor or concentration. A concentration in Catholic theology and minor in Catholic Studies are also offered.

Faculty

Walter E. Brooks, Ph.D., *Associate Professor*
Anthony J. Cerner, Ph.D., *Professor*
June-Ann Greeley, Ph.D., *Associate Professor*
Richard M. Grigg, Ph.D., *Professor*
Christopher Kelly, Ph.D., *Assistant Professor*
Christel J. Manning, Ph.D., *Associate Professor*

Brian Stiltner, Ph.D., *Associate Professor*

Major in Religious Studies

The major in Religious Studies requires the completion of 33 credits.

Required Courses

RS 101 Introduction to the Study of Religion
10 Religious Studies electives selected in consultation with a department advisor

Minor in Religious Studies

The minor in Religious Studies requires the completion of 18 credits.

Required Courses for Minor

RS 101 Introduction to the Study of Religion
Five Religious Studies electives selected in consultation with a department advisor

Associate in Arts General Studies Emphasis Requirements (15 credits)

RS 101 Introduction to the Study of Religion
Four Religious Studies electives

Certificate in Catholic Theological Studies

The Certificate in Catholic Theological Studies is awarded to students who take Religious Studies 101, plus three more courses from a special list of Religious Studies and Philosophy courses, and who write a capstone paper in their fourth course. The goal is for students to make an in depth exploration of some of the issues studied in Roman Catholic fundamental, systematic, and moral theology. One of the courses selected fulfills the University-wide requirement to take one course in either Religious Studies or Philosophy beyond the 101s.

Course Descriptions

RS104 The Human Search for Truth, Justice and the Common Good

This course is the capstone course in Sacred Heart University's common core sequence of study, *The Human Journey*. Each course in the sequence

addresses four fundamental questions of human meaning and value: (1) What does it mean to be human? (2) What does it mean to live a life of meaning and purpose? (3) What does it mean to understand and appreciate the natural world? (4) What does it mean to forge a more just society for the common good?

This course investigates the religious understanding of the human condition as a theme running through the four stated questions. Students study both classic and contemporary texts from a range of religious and some philosophical traditions, particularly the Catholic intellectual tradition, and explore the quest for the ethical human life as it is lived both personally and socially.

†RS 101 Introduction to the Study of Religion 3 CR

A critical and constructive study of the nature of religion, its functions in human life and its various forms and manifestations.

†RS 205 Ancient Religions and Cults 3 CR

Explores the beliefs, practices, and teachings of ancient world religions including those of ancient Egypt and Mesopotamia; the mystery cults of the ancient Greco-Roman civilizations, and the religious traditions of pre-Christian northern Europe (Scandinavia) and ancient Iran. The focus of study is on the sacred writings of the religions, with emphasis on such major topics as deities and divine powers, rituals of birth and death, gender studies, and the relationships between ancient faith traditions and the emergence of monotheism.

†RS 210 Modern Biblical Criticism and the Gospels 3 CR

An in-depth analysis of the development of modern biblical criticism and its impact on understanding the Gospels of the New Testament. *Prerequisite:* RS 101

†RS 211 Introduction to the Hebrew Bible/Old Testament 3 CR

Development of the major traditions of the

Hebrew Bible. Authorship of these traditions, why they were written and what historical circumstances they were responding to. *Prerequisite:* RS 101

†RS 212 Christology 3 CR

Examines the theological interpretation of Jesus as the Christ in the history of the Christian tradition. *Prerequisite:* RS 101

†RS 213 Comparative Religion 3 CR

Compares the central themes in the major religions of the world: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam. *Prerequisite:* RS 101

†RS 214 Introduction to Eastern Religions 3 CR

Explores history, beliefs and practices of Hinduism, Buddhism and other religions of India, China and Japan and the emergence of the contemporary New Age movement. *Prerequisite:* RS 101

†RS 215 Introduction to Islam 3 CR

A theological and phenomenological exploration of beliefs, practices, and symbology of Islam, incorporating extensive readings from the *Qur'an*, the hadith and *shari'a*, and Sufism. This course analyzes contemporary topics such as religion and gender, and religion and politics. *Prerequisite:* RS 101

†RS 216 Celtic Religious Traditions 3 CR

The course is concerned with the mythic history of Ireland, and “beginning” of the Irish, and the traditions by which the Irish have come to identify themselves and give meaning to their world. Students study the religious function of social institutions; gods, goddesses and ruling powers; holy places; feasting and sacrifice; spirits and ancestors; and the other world. The class also looks at the role of women in these traditions and what these traditions mean with regard to such issues as our own estrangement from the natural order. The continuation of “myth” in modern

Ireland is also studied in this course.
Prerequisite: RS 101

†RS 217 Introduction to Western Religions 3 CR

A theological and phenomenological exploration of the beliefs, history and practices of Judaism, Christianity, and Islam with particular emphasis on the sacred scriptures and spiritual traditions of each religion. *Prerequisite:* RS 101

†RS 218 Cults, Sects and New Religious Movements 3 CR

Explores beliefs and practices of new religions in America, including Mormonism, Unification Church, Christian Science, Scientology, Theosophy, New Age, Neopaganism and UFO cults. Presents both sociological and theological approaches to understanding new religions. *Prerequisite:* RS 101

†RS 219 Women in World Religions 3 CR

An analysis of women's role in Christianity, Judaism, Hinduism, and Islam—both historical and contemporary—using theories and methods of gender study. *Prerequisite:* RS 101

†RS 220 Women in Christianity 3 CR

A theological, textual and gender-based examination of women in the history of Christianity, incorporating critical analysis of texts written about and by Christian women. Topics include the image of women and woman's spirituality in the Bible, writings of the Church Fathers, mystics, sectarian movements, and the feminist reconstruction of tradition. *Prerequisite:* RS 101

†RS 222 Women in American Religion 3 CR

A critical analysis of women and religion within the context of American history and culture. This course examines religious writings/narratives by Native American women, and American women in Christianity, Judaism, and Islam. The impact of race, class, history, and/or ethnicity upon religious experience is also explored in the writings of fem-

inist, Womanist (African-American) and Mujerista (Latina) theologians. *Prerequisite:* RS 101

†RS 224 The Gospel of John 3 CR

A critical interpretation of the Gospel of John.

†RS 226 The Letters of Paul 3 CR

Examines the social and religious world of St. Paul, his biography, his writings in the New Testament, and how these influenced the developing Christian church. *Prerequisite:* RS 101

†RS 229 The Historical Jesus 3 CR

Investigates what can be known of the historical Jesus through a proper methodological examination of the sources. Special emphasis is on the parables of Jesus. *Prerequisite:* RS 101

†RS 230 The Death of Jesus 3 CR

Traces the development of the traditions of the passion and death of Jesus as they are found in the gospels of Matthew, Mark, Luke and John. *Prerequisite:* RS 101

†RS 232 Contemporary Religious Thinkers 3 CR

Representative writings of a specific religious thinker. Focus is on the work of either an important theologian or a contemporary scholar of religion. Consult the course instructor for the topic. *Prerequisite:* RS 101

†RS 233 Religion and Ecology 3 CR

Examines how religion has shaped humanity's relationship with nature, and explores various religious and philosophical responses to contemporary ecological problems. *Prerequisite:* RS 101

†RS 235 Religion and Sexuality 3 CR

Examines the relationship between religion and sexuality in various world religions. Topics include asceticism vs. eroticism; defining normality and deviance; sex as a means to challenge or maintain the social order; religious responses to the changing sexual morality in contemporary Western society. *Prerequisite:* RS 101

- †RS 237 Three Teresas** 3 CR
Studies the life and writings of three spiritual masters in the Carmelite tradition: St. Teresa of Avila, St. Therese of Lisieux, and Edith Stein, who was canonized as St. Teresa Benedicta of the Cross. *Prerequisite:* RS 101
- †RS 238 Spiritual Teachers and Thinkers** 3 CR
Explores the representative spiritual writings of a specific religious teacher from the history of the world's religions. Examples of such spiritual teachers include Hildegard of Bingen, Meister Eckhart, George Fox, Teresa of Avila, Ibn al'Arabi, and Martin Buber. Consult instructor for relevant topic. *Prerequisite:* RS 101
- †RS 239 Catholic Church Music** 3 CR
Examines the significance of the music used in the Catholic Church's historical and present liturgical traditions. The technical construction of the music and biographical details of composers and musicians are studied. *Prerequisite:* RS 101
- †RS 240 Understanding Theology** 3 CR
An introduction to the nature and role of theology. Investigates both academic, or "public," theology and confessional, or "church-centered," theology. *Prerequisite:* RS 101
- †RS 242 Medieval Theology** 3 CR
A critical examination of central doctrines of Christianity, Judaism, and Islam as they developed during the Middle Ages. This course analyzes particular modalities of theological expression such as mysticism, sacred art/architecture, and women's visionary writings. *Prerequisite:* RS 101
- †RS 243 Early Christian Thought** 3 CR
Traces the course of the Church's historical and dogmatic traditions from the New Testament period to the Middle Ages. *Prerequisite:* RS 101
- †RS 244 Christian-Jewish Understanding** 3 CR
Examines the historical and theological relationship between Judaism and Christianity beginning at the time of Jesus, which resulted in the separation of and misunderstanding between Christians and Jews through the Patristic period, Renaissance, Middle Ages, until the present time. Particular attention is paid to the recent positive studies in interreligious understanding advanced by the Second Vatican Council. *Prerequisite:* RS 101
- †RS 245 Contemporary Roman Catholic Thought** 3 CR
Various thinkers and movements that have shaped contemporary Roman Catholic life and thought, including Karl Rahner, the Second Vatican Council and liberation theology. *Prerequisite:* RS 101
- †RS 255 History of Christian Ethics** 3 CR
The ethical reflections of some of the most influential Christian thinkers from the Church Fathers to the present (e.g., Augustine, Thomas Aquinas and Martin Luther) applied to various important topics of ethical debate in Christian history (e.g., the notion of just war). *Prerequisite:* RS 101
- †RS 257 Contemporary Moral Issues** 3 CR
A religious-ethical examination of moral issues that involve a significant conflict of values in contemporary society, such as economic inequality, racism, violence, sexual ethics and bioethics. Service learning may be required in some sections. *Prerequisite:* RS 101
- †RS 259 Faith and Justice** 3 CR
Explores the content, sources, and methods of Catholic social ethics and investigates its relevance to social-ethical problems in both the United States and the global community. Service learning may be required.
- †RS 260 Bioethics: Religious Approaches** 3 CR
Introduces students to the methods and principles of biomedical ethics, and explores several ethical issues in medical practice and health care policy. The theoretical frameworks employed include

religious-ethical perspectives in Christianity and some other religious traditions, as well as philosophical and social critiques and proposals. Major topics covered include euthanasia, reproductive technologies, human cloning, consent for experimentation and allocation of health care resources.

†RS 261 Symbol, Myth and Ritual 3 CR

Notions of symbol, myth and ritual, as well as an introduction to the use of symbols, myths and rituals in a wide variety of religious traditions. *Prerequisite:* RS 101

†RS 267 Mysticism 3 CR

This course introduces the student to the dimension of spirituality known as mysticism, through readings in and critical analysis of mystical texts of the world's religions, including Tao te Ching, the Hindu Upanishads, Zohar and other Kabbalistic texts, the poets of Sufism, and Christian mystics from the history of Christianity. *Prerequisite:* RS 101

†RS 268 Classics of Western Spirituality 3 CR

Great spiritual masters of the Western religious traditions (e.g., John of the Cross, Theresa of Avila, Ignatius Loyola, Teilhard de Chardin, Martin Buber and Thomas Merton). *Prerequisite:* RS 101

†RS 275 Death 3 CR

Examines the concept of “death”—the central reality in human life and that which makes authentic, full, human and humane life possible. *Prerequisite:* RS 101

†RS 277 Pilgrimage and Spiritual Journeys 3 CR

Introduces the religious ritual activity of pilgrimage, a spiritually inspired journey in time and over space. The concept is studied in several religions and from several methodological angles that occur in many religious traditions. *Prerequisite:* RS 101

†RS 278 Religion in America 3 CR

Examines the historical factors responsible for

distinctive trends in American religion and identifies common threads that run through the religious history of America from the Puritans to today. *Prerequisite:* RS 101

†RS 281 Religion, Health and Healing 3 CR

Explores theories and practices of healing in Eastern, Western and Primal religions. Examines research on connections between religion and health and efficacy of alternative and spiritual therapies. *Prerequisite:* RS 101

†RS 289 Religion, War and Peace 3 CR

An examination of ethical attitudes toward war and peace embraced by Christianity and other religions. *Prerequisite:* RS 101

†RS 291 Religious Themes in Contemporary Fiction 3 CR

Explores the religious dimensions in the fiction of writers such as Cynthia Ozick, John Cheever, Toni Morrison and Italo Calvino. *Prerequisite:* RS 101

†RS 299 Special Topics in Religion 3 CR

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

†RS 301 The Church: Roman Catholic Perspectives 3 CR

An investigation of Catholic thinking and teaching about the nature of the Church. *Prerequisite:* RS 101

†RS 302 The Roman Catholic Sacraments 3 CR

Explores the history of the sacraments, the theology behind them and their role in contemporary Catholic life. *Prerequisite:* RS 101

RS 399 Independent Study 1–3 CR

An area of study for which no course is presently

provided. The student must find an instructor competent in his/her proposed topic and secure the permission of the chairperson and the dean.

Prerequisite: RS 101

Social Work

Social work is both a profession and a method of helping. As a profession, social work assists individuals, families, groups, organizations, and the community to meet their needs, solve problems, obtain resources, and achieve goals. As a method of helping, social work involves purposeful use of professional knowledge, skills, and values to facilitate development and change in individuals or larger systems.

The Baccalaureate Social Work Program employs a liberal arts perspective that provides students with analytical, conceptual, and interactional skills that allow them to identify client strengths and resources, to implement planned change, and to intervene in problem situations.

The major in Social Work prepares students for professional generalist social work practice at the beginning level and for graduate study. The baccalaureate degree program is accredited by the Council on Social Work Education.

Faculty

Annette M. Bailey, Ph.D., *Coordinator of Field Education, Assistant Professor*

Elaine B. Davis, D.S.W., *Associate Professor*

Joan A. Pollack, M.S.W., M.H.S.A., *Director, Baccalaureate Social Work Program, Clinical Associate Professor*

Major in Social Work

The major in Social Work requires the completion of 43 major credits, plus 21–22 credits of required supporting courses in Psychology, Biology, Political Science, and Sociology.

The student is required to maintain an overall GPA of 2.5 or higher and a GPA of 2.5 or higher in

required major courses.

Required Courses

- SW 101 Introduction to Social Work
- SW 265 Social Welfare as a Social Institution
- SW 266 Social Welfare Policy and Services
- SW 267 Human Behavior and the Social Environment I
- SW 268 Human Behavior and the Social Environment II
- SW 275 Social Work Practice I
- SW 278 Junior Field Practicum
- SW 279 Junior Field Practicum Seminar
- SW 375 Social Work Practice II
- SW 378 Senior Field Practicum I
- SW 379 Senior Field Practicum Seminar I
- SW 380 Senior Field Practicum II
- SW 381 Senior Field Practicum Seminar II
- SW 390 Research Methods for Social Work

Required Supporting Courses

- PS 110 Introduction to Psychology
- BI 010 The Nature of Life
- or
- BI 030 The Human Body
- PO 121 Introduction to American Government
- SO 110 Sociological Imagination
- SO 215 Social Psychology: Macroprocesses
- SO 239 Diversity and Oppression in Contemporary Society
- SO 254 Society and Economic Change

Course Descriptions

SW 101 Introduction to Social Work 3 CR
Explores the profession of social work as a career choice. Focuses on generalist social work practice as a societal response to social problems with an orientation to professional knowledge, skills, values, and ethics. *Prerequisite:* SO 101 or SO 110

SW 110 Human Relations: An Introduction to Helping 3 CR
Provides the theory and experience necessary to develop effective interpersonal skills for person-

al and professional use. Emphasis is on listening, confrontation, problem solving, conflict management, self-awareness, and interpersonal helping.

SW 130 Issues and Problems in the Life Cycle of the Family 3 CR

Examines family development and the problems and challenges at each stage of the family life cycle. Cultural diversity, parent-child interaction patterns, and family problem solving are included.

SW 140 Perspectives on Family Violence 3 CR

The effects and characteristics of family violence from the legal, medical, and social perspectives. Incidence and preconditions of child abuse, spousal abuse, and elder abuse are studied.

SW 150 Child Sexual Abuse: Myths and Realities 3 CR

Examines this problem in American society from the historical, legal, moral, and treatment perspectives. Emphasis on recognizing indicators of sexual abuse, formulating assessments, and planning for intervention.

SW 160 Perspectives on Death and Dying 3 CR

Societal attitudes toward death and dying; stages of loss, grieving, and the healing process. Topics include suicide, euthanasia, and religious and cultural influences on attitudes about death.

SW 180 Treating Substance Abuse and Addictions 3 CR

Examines the disease concept of addiction and treatment modalities. Emphasis is on assessment, diagnostic skills, and intervention with special populations, such as adolescents, the elderly, and court-mandated clients.

SW 265 Social Welfare as a Social Institution 3 CR

An introduction to the social service delivery system and resources, the values and ethics inherent

in policy, and the role of the social work profession. Includes a global perspective on comparative social welfare systems. *Prerequisite:* SW 101

SW 266 Social Welfare Policy and Services 3 CR

Examines how social policy is formulated and implemented with a focus on the inequalities and inequities in social welfare policy that express institutional discrimination. Emphasizes the development of macropractice skills. *Prerequisites:* PO 121, SO 254, and SW 265

SW 267 Human Behavior and the Social Environment I 3 CR

Theories of human development with emphasis on stages of the life cycle; human diversity; and the biological, psychological, socioeconomic, spiritual, and cultural influences on development. *Prerequisites:* BI 010 or BI 030, PS 101 or PS 110, and SW 101

SW 268 Human Behavior and the Social Environment II 3 CR

A study of diverse family, group, community, and organizational systems and their impact on human development and behavior. Theoretical knowledge and assessment skills are emphasized. *Prerequisite:* SW 267

SW 275 Social Work Practice I 3 CR

Emphasizes the generalist model of social work practice, the use of systems theory, the strengths perspective, and professional values and skills to facilitate the planned change and problem-solving process. *Prerequisites:* Junior standing and SW 101

SW 278 Junior Field Practicum 4 CR

Internship for two days each week in a human service agency where students are professionally supervised in social work practice with clients and the community. *Prerequisites:* SW 265, SW 267, SW 275, and departmental evaluation for admission to Intermediate Major Status; *Corequisite:* SW 279

SW 279 Junior Field Practicum

Seminar 2 CR

Taken concurrently with SW 278, this course facilitates, reinforces, and supports field-based learning. Emphasizes engagement, assessment, intervention planning, interviewing skills, and professional values and ethics. *Corequisite:* SW 278

SW 299 Special Topics in Social Work 3 CR

Designates new or occasional courses that may or may not become part of the program's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

SW 375 Social Work Practice II 3 CR

Examines intervention skills with families, groups, communities, and organizations using the planned change process. Introduces spirituality in social work practice. *Prerequisite:* SW 275

SW 378 and 380 Senior Field Practicum I and II 4 CR each

Professionally supervised Senior internship for two days each week. Integration of theory with practice and the development of appropriate skills and knowledge, along with professional identification, values, and attitudes. *Prerequisites:* SW 278 and SW 279, and evaluation for admission to Degree Candidacy status; *Corequisites:* SW 379 and SW 381

SW 379 and SW 381 Senior Field Practicum Seminar I and II 2 CR each

Emphasis is on professional development, the use of research methods to evaluate one's own practice, and application of theory from the entire curriculum to professional practice. *Corequisites:* SW 378 and SW 380

SW 390 Research Methods for

Social Work 4 CR

Development of research skills for evaluation and enhancement of social work practice. Emphasizes research designs, sampling, practice evaluation, program evaluation, measurement instruments, and basic statistics. *Prerequisite:* Junior standing

Sociology

Sociology aims to describe and explain the social structures and dynamics central to social change and relationships within and between human societies. The purpose of the Sociology program at Sacred Heart University is to provide students with the opportunity to analyze and understand these structures and dynamics with particular attention to their implications for the quality of human life. The program fosters the development of critical and analytical skills needed to understand social phenomena and problems in a systematic and objective way. The program provides an excellent foundation for careers in professional sociology and social research, teaching, community service, human resources, journalism, public relations, public administration, government service, and law.

The curriculum of the Sociology program includes courses in human cultural diversity, poverty and socioeconomic inequality, diversity and oppression, society and the environment, changing patterns of American family life, youth and contemporary society, changing human populations, health and health care, criminology, globalization, economic change, social psychology, sociological theory, and methods of social research. In addition, the curriculum emphasizes an applied approach to sociology that seeks to connect the study of social structure and dynamics and sociological theory and method to practical examples and contemporary problems and issues.

Faculty

Nicole X. Cauvin, Ph.D., *Professor*

Stephen J. Lilley, Ph.D., *Associate Professor*

Gerald F. Reid, Ph.D., *Professor*

Grant Walker, Ph.D., *Associate Professor*

Major in Sociology

The major in Sociology requires the completion of 36 or 39 credits.

There are three concentrations that students can choose from: General Sociology Concentration, Concentration for Elementary and Secondary Certification, and the Research Concentration. Students interested in any of the concentrations should consult their advisor before selecting courses.

Required Courses

AN 110 Human Cultural Diversity

SO 110 Sociological Imagination

SO 372 Sociological Theory

SO 373 Applications of Sociological Theory

SO 382 Methods of Social Research

SO 383 Applications of Social Research

SO 398 Senior Seminar in Sociology

Two Sociology electives (other than electives used toward concentration)

Additional Requirements for General Sociology Concentration: 9 credits

SO 392 Sociology Internship

Two courses from the following:

SO 201 Poverty and Inequality in the United States

SO 239 Diversity and Oppression in Contemporary Society

SO 258 Society and the Environment
Anthropology elective

Additional Requirements for the Teaching Concentration: 9 credits

Three courses from the following:

SO 216 Changing Families

SO 238 Youth and Contemporary Society

SO 239 Diversity and Oppression in

Contemporary Society

Anthropology elective

Additional Requirements for the Social Research Concentration: 12 credits

SO 242 Statistics for Social Research (to be taken prior to SO 382)

SO 392 Sociology Internship

Two courses from the following:

SO 240 Studying Changing Human Populations

SO 254 Society and Economic Change

AN 250 Doing Ethnography: Qualitative Research in the Social Sciences

Minor in Sociology

The minor in Sociology requires the completion of the following 18 credits:

AN 110 Human Cultural Diversity

SO 110 Sociological Imagination

Anthropology elective

Three Sociology electives

Associate in Arts General Studies

Emphasis Requirements (15 credits)

Required Courses

AN 110 Human Cultural Diversity

SO 110 Sociological Imagination

Three Sociology electives

Course Descriptions

†SO 110 Sociological Imagination 3 CR

Students are taught how to investigate social issues as sociologists do—by tracing the troubles of men and women back to broader social forces and problems. The relevance of sociology is demonstrated through examples of applied sociology and through the students' use of social theory and methods to address social problems.

†SO 201 Poverty and Inequality in the United States 3 CR

The aim of this course is for students to develop an understanding of the nature, causes, and consequences of poverty and socioeconomic inequality in the contemporary United States. These prob-

lems are examined from theoretical, descriptive, historical, and comparative perspectives. The intersection of the problems of poverty and inequality with gender, race, ethnicity, and political power are also examined. Students will have an opportunity to examine critically current public policies designed to deal with the problems of poverty and inequality in American society. *Prerequisite:* SO 110

†SO 215 Social Psychology: Macroprocesses **3 CR**

Explores social and cultural forces that influence individual social interaction. Covers components of individual social behavior and interpersonal social behavior. *Prerequisite:* SO 110

†SO 216 Changing Families **3 CR**

Examines family in terms of structure, roles, and functions. Emphasis is on understanding: family life cycles; the shift in perspective about the family; the conflict between family values and individual values; the interplay between individual families and the larger society; and the flexibility and diversity of the family as an institution. *Prerequisite:* SO 110

†SO 220 The Graying of America **3 CR**

The aging of the American population is the subject of this course. Emphasis is placed on the imminent retirement of the “baby boomers” and its impact on the structures of society and future generations. *Prerequisite:* SO 110

†SO 222 Sociology of Education **3 CR**

This course focuses on education as a social institution and an agent of socialization. The formal organization of education, education and the family, education and social stratification, and education as a vehicle for examining and solving social problems are explored. *Prerequisite:* SO 110

†SO 234 Sociology of Health and Health Care **3 CR**

Focuses on the social nature of illness in tem-

porary society, the changing health care system and the ethical issues raised by advances in medical technology. *Prerequisite:* SO 110

†SO 235 Criminology **3 CR**

Analyzes criminal behavior, including a review of theories of crime causation, society’s efforts to cope with criminal behavior and the public perceptions of crime. *Prerequisite:* SO 110

†SO 237 Deviance and Social Control **3 CR**

Explores the creation of deviance, the process of becoming deviant and society’s reactions to such issues as civil disorder, crime, mental illness, addiction and sexual deviance. *Prerequisite:* SO 110

†SO 238 Youth and Contemporary Society **3 CR**

The course analyzes youth as a stage in life made both promising and problematic by contemporary social structure and culture. Attention is given to the origins and forms of youthful conformity and achievement as well as misconduct and crime, with an emphasis on how those issues differ by gender, social class, race/ethnicity, and variations in the organizations and social institutions that constitute the context of daily life for youth. *Prerequisite:* SO 110

†SO 239 Diversity and Oppression in Contemporary Society **3 CR**

Emphasis is on human diversity. This course is designed to give students an understanding of the conditions that lead to minority emergence and the consequence of minority status; it fosters acceptance of diversity, cultural pluralism, and social change. *Prerequisite:* SO 110

SO 240 Studying Changing Human Populations **3 CR**

This course (1) identifies what kinds of changes have been occurring in the size, composition, and geographic distribution of human populations at the local, national and global levels; (2) analyzes

the impacts those changes have been exerting on social patterns; and (3) develops basic skills for studying those changes and impacts. Focuses on birth and fertility rates, death rates, migration rates, and changes in specific aspects of populations: size, age, sex ratio, socioeconomic status, and cultural heritage/identity. *Prerequisite:* SO 110

†SO 242 Statistics for Social Research

3 CR

This course shows how to use statistics for specific purposes in social research and how to interpret the results of statistical analysis. Attention is given to distributions, central tendency, dispersion, estimates, inference, hypothesis testing, statistical significance, measuring the presence, strength, and direction of relationships between variables, analysis of variance, chi-square analysis, and correlation and regression analysis. *Prerequisites:* SO 110 and C or better in MA 101 or higher level Mathematics course; to be taken prior to SO 383

†SO 245 The Contemporary World Social System

3 CR

Emphasis is on the emerging regional subsystems of the world social system, and the consequences of this change on the processes of interaction among these subsystems and their interaction with the developing countries. *Prerequisite:* SO 110

†SO 254 Society and Economic

Change

3 CR

Major socioeconomic developments in 21st-century capitalism (e.g., consumer culture, global labor market, media empires) are studied. The persistence of inequality and poverty, fragmentation of family and community, unhealthy constructions of self-image, and other social problems are explained in terms of these developments. *Prerequisite:* SO 110

SO 257 Technology, Culture and Society

3 CR

With the increasing saturation of biotechnology,

cybertechnology, communication/media technology, etc., in the world, it is prudent to study the overall relationship of technology to culture and society and to consider the social impact of the next wave. While identifying serious problems and risks, the course also explores the proposition that technology can be shaped and guided to be a positive force. *Prerequisite:* SO 110

†SO 258 Society and the Environment

3 CR

This course (1) examines how human activities contribute to environmental problems, such as climate change, pollution, disappearance of natural habitat, decreasing biodiversity, diminishing natural resources, deforestation, erosion, and desertification, (2) analyzes the impact of environmental degradation on human populations and human societies; and (3) identifies those steps taken and yet to be taken to end degradation and restore environmental health. A project in which students take action in some group, organization, or community to make its impacts on the environment more positive is required. *Prerequisite:* SO 110

SO 259 Social Movements

3 CR

Social movements are a powerful form of collective action with the capacity to alter societies for the better (e.g., Civil Rights Movement) or worse (e.g., fascism). Utilizing a rich vein of social theory and social scientific studies, this course offers an in-depth analysis of these fascinating social phenomena. *Prerequisite:* SO 110

SO 263 Sexual Differentiation in Contemporary Society

3 CR

This course develops students' gender awareness in order for them to realize that acceptance of males and females as equal human beings is an orientation that requires understanding of institutions and structures. *Prerequisite:* SO 110

SO 299 Special Topics in Sociology

3 CR

Detailed and comprehensive analysis of a sociological issue or problem of current interest. Specific topic is announced in the course schedule

of any given semester. *Prerequisite:* SO 110

SO 372 Sociological Theory 3 CR

This sociological theory course gives students an understanding of the works of the major classical theorists whose ideas played a central role in the development of sociological theory and introduces students to the dominant contemporary perspectives in social thought. Emphasis is on developing the students' knowledge of the range of thinking that exists concerning social issues, what the strengths and weaknesses of each position are, therefore, enabling them to work within any point of view. A seminar format is used, requiring students to do assigned readings before a topic is discussed in class since it is through class discussions that ideas are analyzed, dissected, and critically assessed. *Prerequisites:* AN 110, SO 110, and two Sociology electives

SO 373 Applications of Sociological Theory 3 CR

Emphasis is on sociology as an applied discipline that provides scientific explanations of important social issues. Students review several existing sociological studies framed within the various theoretical approaches studied in the Sociological Theory (SO 372). Students are expected to identify the theoretical framework used by the researcher in each study; to explain the impact of the theoretical framework on the methodology used in the study; and to propose another theoretical framework that could have been used and its impact on the selection of a research method to study the social phenomenon covered in the study. This course helps students understand the relationship between theory and method and provides a critical foundation for the design and development of their Senior thesis. *Prerequisites:* SO 372, SO 382; *Corequisite:* SO 383

SO 382 Methods of Social Research 3 CR

Students learn how to design, conduct, and report the results of social research. Attention is given to:

experimental and evaluation research, field research, unstructured exploratory interviewing, content analysis, analysis of published statistical data, survey research, conceptualization and operationalization of variables, analysis of data, the writing of research reports, and the logic of cause and effect in research. The course also includes learning how to use the Statistical Package for the Social Sciences (SPSS) software to analyze quantitative data. *Prerequisites:* AN 110, SO 110, and two Sociology electives

SO 383 Applications of Social Research 3 CR

This course involves additional exercises with the analysis of published statistical data, content analysis, survey research, sampling theory, the use of SPSS for quantitative data analysis, with emphasis on applications of multivariate analysis for the purpose of examining evidence for cause-and-effect relationships. Other topics include the relationship between theory and research; examining studies which researchers have used to test and/or refine sociological theories; learning how to use one's own research to test, refine, and develop sociological theories; and developing the ability to relate the findings of existing studies to one's own research questions. This course is a critical part of the foundation for the Senior Seminar in Sociology. *Prerequisites:* SO 382, SO 372; *Corequisite:* SO 373

SO 392 Sociology Internship 3–6 CR

The internship in Sociology offers an opportunity for qualified Sociology majors to gain practical experience in an area to which sociology applies. Internships are arranged in advance of the semester they are to be taken. *Prerequisite:* Permission of the instructor

SO 398 Senior Seminar in Sociology 3 CR

The capstone course in the Sociology major. Students write and defend a sociological thesis under the guidance of a faculty mentor.

Prerequisites or corequisites: SO 373 and SO 383. Senior standing and major in Sociology

SO 399 Independent Study in

Sociology

3 CR

Designed for students interested in advanced study or in pursuing areas within Sociology for which no course is offered. By special arrangement.

Prerequisite: Permission of Sociology faculty