

School of Arts and Sciences

School of Arts and Sciences

Mission

The School of Arts and Sciences affirms the Mission of Holy Family University and accepts the centrality of the School's role and responsibility in accomplishing its goals. The University seeks "direction and inspiration from the life and teaching of Jesus Christ, affirms the values of the Judeo-Christian tradition, and witnesses the dignity of the human person and the oneness of the human family." (University Mission Statement) In this context the School of Arts and Sciences commits itself to the search for and integration of knowledge and through its disciplines, dynamically promotes the growth of the following capacities within each student:

- Religious and spiritual values
- Self-knowledge and insight
- Moral and ethical sensibilities
- Enduring intellectual curiosity
- Aesthetic appreciation
- Critical, creative and analytical thinking
- Articulate written and oral communication skills
- Scientific understanding and technological skills
- Service and responsibility to the community
- Informed historical, cultural and social perspectives

Contact Information

School Dean: Michael W. Markowitz, PhD

Undergraduate Programs

Division Head: Mathematics and Sciences – Rochelle Robbins, PhD

Division Head: Art, Communications and Humanities– John Woznicki, PhD

Graduate Programs

Director: Master of Science in Counseling Psychology – TBA

Director: Master of Arts in Criminal Justice – Leanne Owen, PhD

For additional information on the Graduate Programs, please see
<http://www.holyfamily.edu/academics/catalog2.shtml>

Undergraduate Degree Programs

Bachelor of Arts degree programs include:

- Art*
 - Concentrations in:*
 - Studio Art
 - Pre-Art Therapy
- Biochemistry
- Biology
- Communications
 - Concentrations in:*
 - Journalism
 - Media Arts
 - Public Relations
- Criminal Justice
- English
- History
- Interdisciplinary Humanities
- Mathematics
- Psychobiology
- Psychology
 - Concentrations in:*
 - General Psychology
 - Mental Health
 - Research
- Psychology for Business
- Religious Studies
- Sociology
 - Concentrations in:*
 - General Sociology
 - Child and Family Services
 - Public Health

Bachelor of Science degree program includes:

- Biology with Clinical Internship in Medical Technology

Minors

- Actuarial Science
- American Studies
- Studio Art
- Communications
- Criminal Justice
- English Literature
- History
- Mathematics
- Middle School Mathematics
- Natural Sciences
- Philosophy
- Political Science
- Pre-Law
- Psychology
- Religious Studies
- Sociology
- Spanish

Courses

- Anthropology
- Chemistry
- French
- General Sciences
- Geography
- German
- Italian
- Mandarin
- Music
- Polish
- Philosophy
- Physics
- Political Science
- Spanish
- Theater

Degree Programs in the Arts and Sciences

Art

Art Education, Pre-Art Therapy, Studio Art

Goals

- To provide students with foundational skills in art making.
- To facilitate a broad knowledge and appreciation of art history and its methodologies.
- To foster development in students' critical judgment required for problem solving and the skill needed to analyze and interpret art works.
- To cultivate student creativity in art making
- To introduce students to diverse perspectives in art creation and interpretation.
- To prepare students for a career in an arts-related profession or for graduate study.

Studio Art

Core Curriculum: BA Requirements (credits) 45

Concentration

Studio Arts (36 credits + 12 elective credits) 48

All concentration requirements must be taken in addition to the core requirements.

ARTS 102	Art Appreciation	3
ARTS 213	Art History: Ancient to Renaissance	3
ARTS 214	Art History: Renaissance to Modern	3
ARTS 217	Sculpture I	3
ARTS 223	Two-Dimensional Design	3
ARTS 224	Three-Dimensional Design	3
ARTS 225	Drawing and Composition	3
ARTS 226	Drawing from the Model	3
ARTS 319	Painting I	3
ARTS 325 or 326	Seminars in Art History	3
ARTS 327	Advanced Studio Art III	3
ARTS 427	Research Seminar	3
ARTS 428	Independent Project	3

Twelve credits of art electives chosen from among the following:

ARTS 210, 211	Watercolor I, II	3, 3
ARTS 218	Sculpture II	3
ARTS 315	Graphic Design	3
ARTS 316	Digital Photography	3
ARTS 317	Computer Illustration	3
ARTS 320	Painting II	3
ARTS 321, 322	Ceramics I, II	3, 3
ARTS 323, 324	Printmaking I, II	3, 3
ARTS 431-499	Special Topics	3

Other Requirements

- A Senior exhibit
- Successful completion of comprehensive exam in Art History
- Portfolio presentation.

Art Education

K-12 Certification — to teach Art in Grades K-12: see Teacher Education Requirements on page 188.

Pre-Art Therapy

Concentration:

Pre-Art Therapy. All concentration requirements must be taken in addition to the core requirements. 42

ARTS 102	Art Appreciation	3
ARTS 213	Art History: Ancient to Renaissance	3
ARTS 214	Art History: Renaissance to Modern	3
ARTS 217	Sculpture I	3
ARTS 221	Introduction to Art Therapy	3
ARTS 223*	Two-Dimensional Design	3
ARTS 224*	Three-Dimensional Design	3
ARTS 225	Drawing and Composition	3
ARTS 226	Drawing from the Model	3
ARTS 319	Painting I	3
ARTS 321	Ceramics I	3
ARTS 325 or 326	Seminars in Art History	3
ARTS 327	Advanced Studio Art III	3
ARTS 427	Research Seminar**	3

* ARTS 223 and 224 are prerequisite requirements for Art majors.

Psychology		12
PSYC 101	General Psychology	3

PSYC 206	Child and Adolescent Development	3
PSYC 345	Abnormal Psychology	3
Psychology Elective	<i>(May not be PSYC 207 or PSYC 208)</i>	3

Six credits of art electives chosen from among the following:

ARTS 210	Watercolor I	3
ARTS 218	Sculpture II	3
ARTS 315	Graphic Design	3
ARTS 316	Digital Photography	3
ARTS 317	Computer Illustration	3
ARTS 320	Painting II	3
ARTS 322	Ceramics II	3
ARTS 323	Printmaking I	3
ARTS 324	Printmaking II	3
ARTS 431-499	Special Topics	3

Other Requirements

- Successful completion of comprehensive exam
- Portfolio presentation.

See Minor in Art - Studio on page 141

Biochemistry

Goals

- To provide a solid foundation in the field of biochemistry by integrating physics, chemistry, biology
- To facilitate communications of fundamental biochemical concepts both orally and in writing
- To develop the skills necessary for the design, analysis and interpretations of scientific investigations.

Requirements

Core Curriculum: BA Requirements (credits) 45

Concentration+

BIOL 120, 121	Biological Principles I, II	4, 4
BIOL 209	Cell Biology	3
BIOL 210	Introduction to Scientific Techniques	3
BIOL 304	Principles of Genetics	3
BIOL 325	Seminar: Scientific Literature	2
BIOL 326	Seminar: Inorganic, Organic, and Cultural Evolution	2
BIOL 407	Molecular Genetics	3
BIOL 408	Cell and Molecular Techniques	3
BIOL 415, 416	Modern Concepts in Biochemistry I, II	3, 3
BIOL 427, 428	Research/Internship	2, 2
CHEM 120, 121	Chemistry Principles I, II	4, 4
CHEM 207, 208	Organic Chemistry I, II	4, 4
CHEM 301, 302	Physical Chemistry I, II	4, 4
MATH 211, 212	Calculus I, II	4, 4
PHYS 201, 202	General Physics I, II	4, 4

Other Requirements

- Successful completion of written and oral components of comprehensive exam and poster presentation.
- Continuation in the major requires a GPA of 2.5 in all completed science courses
- At least nine credits of 300/400 level concentration coursework must be completed in the school to meet degree requirements.

+ Courses in the concentration are those with a BIOL or CHEM designator.

Biology

Goals

- To provide comprehensive instruction in biochemical, molecular, cellular, organismal, and evolutionary disciplines of biology
- To educate students to critically read and effectively communicate biological research
- To develop the skills required for working in a laboratory setting
- To prepare students to be certified to teach in biology-related areas and to potentially pursue an advanced degree in the life sciences.

Requirements

Core Curriculum: BA Requirements (credits) 45

Concentration+

BIOL 120, 121	Biological Principles I, II	4, 4
BIOL 207, 208	Anatomy and Physiology I, II	4, 4
BIOL 209	Cell Biology	3
BIOL 210	Introduction to Scientific Techniques	3
BIOL 304	Principles of Genetics	3
BIOL 325	Seminar: Scientific Literature	2
BIOL 326	Seminar: Inorganic, Organic, and Cultural Evolution	2
BIOL 407	Molecular Genetics	3
BIOL 427, 428	Research/Internship	2, 2
CHEM 120, 121	Chemistry Principles I, II	4, 4
CHEM 207, 208	Organic Chemistry I, II	4, 4
MATH 211	Calculus I	4
PHYS 201, 202	General Physics I, II	4, 4

Electives

Two courses required—choose one course from Group I and one course from Group II 3, 3

Group I

BIOL 330	General Immunology	3
BIOL 411	Microtechniques	4
BIOL 415, 416	Modern Concepts in Biochemistry I, II	3, 3

Group II

BIOL 312	Cell-Cell Interaction	3
BIOL 331	Botany, the Biosphere, and Ecosystems	3
BIOL 408	Cell and Molecular Techniques	3

See Natural Science Minor on page 146

Other Requirements

- Successful completion of written and oral components of comprehensive exam and poster presentation
- Continuation in the major requires a GPA of 2.5 in all completed science courses
- At least 9 credits of 300/400 level concentration coursework must be completed within the school.

Secondary Certification (Grades 7-12)

For teacher certification requirements in Biology, see School of Education.

+Courses in the concentration are those with a BIOL designator.

Biology/Medical Technology Science Program

Goals

- To provide a comprehensive instruction in biochemical, molecular, cellular, organismal, and evolutionary disciplines of biology
- To educate students to critically read and effectively communicate biological and clinical research
- To develop the skills required for working in a laboratory setting
- To prepare students for certification and a career in the clinical laboratory sciences.

The Program

In order to prepare well-rounded professionals, the Medical Technology program combines a foundation in the liberal arts and basic sciences with formal clinical laboratory training.

At Holy Family University, students complete the core courses mandated by the liberal arts curriculum. Basic science courses consistent with standards set by the accrediting agencies for programs in clinical laboratory science as well as specific offerings required by the University in the concentration area are also completed on campus.

Training in Medical Technology/Clinical Laboratory science is undertaken during the Senior year in the facilities of an accredited hospital program. At the present time, Holy Family University enjoys an affiliation agreement with St. Christopher's Hospital. One criterion for admission to the clinical year is acceptable academic performance. Applicants must maintain a cumulative average of 2.5 as well as a grade of at least C+ in each science prerequisite. Evaluation of candidates, however, is not based solely on academic achievement, but also includes consideration of relevant recommendations and personal interviews. Admission to the clinical portion of the program is competitive; the clinical laboratory science staff reserves the right to select those applicants who seem best qualified to complete the program. During their clinical training, students are expected to comply with requirements imposed by the hospital affiliate.

Upon fulfillment of university and clinical requirements, students are awarded a Bachelor of Science degree in Biology. Students who complete the clinical internship are also eligible to take various certification examinations that are recognized by the profession.

Challenge Program Designed for Medical Laboratory Technicians

An advanced placement program is available for those applicants who possess an associate degree in medical laboratory technology (M.L.T.) and a recognized certification in this area. Each student's status will be evaluated individually, and a suitable program of challenge examinations and/or accelerated rotations in Medical Technology will be designed to address the background of the applicant as well as the requirements of the clinical affiliate and the University. Credit earned in this way and acceptable transfer credits may be applied toward completion of the Bachelor of Science degree at Holy Family University.

Requirements

Core Curriculum: BS Requirements (credits) 45

Concentration

BIOL 120, 121	Biological Principles I, II	4, 4
BIOL 206	Microbiology	4
BIOL 207, 208	Anatomy and Physiology I, II	4, 4
BIOL 209	Cell Biology	3
BIOL 210	Introduction to Scientific Techniques	3
BIOL 330	General Immunology	3
CHEM 120, 121	Chemistry Principles I, II	4, 4
CHEM 207, 208	Organic Chemistry I, II	4, 4
CHEM 415, 416	Modern Concepts in Biochemistry I, II	3, 3
MATH 130	Elementary Statistics	3
MATH 211	Calculus I	4
MEDT 413*	Clinical Hematology/Coagulation	6
MEDT 414*	Clinical Immunohematology	4
MEDT 416*	Clinical Chemistry	8
MEDT 417*	Clinical Microbiology	8
MEDT 418*	Clinical Immunology/Serology	3
MEDT 420*	Clinical Seminar	3
PHIL 205	Bioethics	3

Recommended

BIOL 304	Principles of Genetics	3
CHEM 203	Analytical Chemistry	4

Other Requirements

- Successful completion of written and oral components of comprehensive exam.

**Courses/experiences completed at the accredited clinical affiliate site.*

Communications

Goals

- To provide students with communication skills and a knowledge base for entry-level positions in the field of Communications or for graduate study
- To provide students with a foundation in the use of technologies
- To cultivate students' critical thinking skills through the Communications curriculum
- To encourage students to respect diversity and appreciate ideas originating in the world's different cultural traditions
- To provide an environment of ethical behavior and to inspire students to build community and live spiritually meaningful lives.

Requirements

Core Curriculum: BA Requirements (credits) 45

Major

Concentration Requirements (credits) 21

Communication Track Requirements 27

Free electives 27

Concentration

All common concentration requirements must be taken in addition to core requirements.

COMM 110	Introduction to Mass Media	3
COMM 218	Desktop Publishing	3
COMM 220	Communications and Culture	3
COMM 226	Writing for the Media	3
COMM 256	Law and Ethics in Media	3
COMM 425	Senior Seminar	3
COMM 450	Cooperative Education	3

Track Option Requirements (27 credits)

Journalism Track

COMM 230	Journalism I	3
COMM 233	Introduction to Broadcasting and Electronic Media	3
COMM 310	Journalism II: News and Feature Writing	3
COMM 311	Magazine Writing	3
COMM 314	Editing	3
COMM 415	Photojournalism	3

Nine credits of electives in the following distribution:

COMM or ENGL Elective (ENGL 309 or ENGL 410 recommended)	3
Communications electives	6

Track Option Requirements (27 credits)**Public Relations Track**

ECON 103	Intro to Economics	3
COMM 235	Public Relations	3
COMM 312	Principles of Marketing	3
COMM 320	Video I	3
COMM 335	Public Relations II	3
COMM 405	Principles of Advertising	3

Nine credits of electives in the following distribution:

COMM or ECON or MNMK elective (MNMK 406 recommended)	3
COMM or THEA elective	3
COMM elective	3

Track Option Requirements (27 credits)**Media Arts Track**

COMM 223	Two Dimensional Design	3
COMM 233	Broadcasting and Electronic Media	3
COMM 317	Computer Illustration	3
COMM 320	Video I	3
COMM 321	Digital Photography	3
COMM 421	Video II	3

Nine credits of electives in the following distribution:

COMM or ARTS elective	3
COMM elective	3
COMM or ENGL elective (ENGL 235 recommended)	3

Other Requirements

- Successful completion of comprehensive exam
- 2.5 (C+) average in all completed Communications courses.

See Minor in Communications on page 142

Criminal Justice

Goals

- Develop intellectual curiosity regarding issues in crime and justice
- Identify and describe the structure and functions of the various components of the Criminal Justice system
- Identify and evaluate the various theoretical perspectives that have evolved to explain crime and deviance
- Identify and apply the basic elements of social science and Criminal Justice research.
- Exhibit an ability to synthesize active learning in the classroom and engagement in the community through a successful Criminal Justice field experience
- Develop academic and professional skills that will enable the student to succeed professionally in some area of Criminal Justice practice upon graduation.

Requirements

Core Curriculum: BA Requirements (credits) 45

Concentration

CRJU 101	Introduction to the Criminal Justice System	3
CRJU 200	Criminology	3
CRJU 210	Law Enforcement	3
CRJU 300	Corrections	3
CRJU 317	Criminal Law	3
POLS 316	Constitutional Law	3
	or	
CRJU 318	The Court System and Court Procedures	3
CRJU 423	Advanced Research Methods for Criminal Justice	3
CRJU 350, 351	Internship (2-4, 2-4) (minimum 4 credits total required)	4-8
CRJU 403	Probation and Parole	3
SOCO 101	Introductory Sociology	3
SOCO 208	Social Deviance	3
SOCO 311	Statistics for Social and Behavioral Sciences	3
SOCO 323	Quantitative Research Methods	3
SOCO 330	Junior Seminar in the Social Sciences	3
CRJU 430	Senior Seminar in the Social Sciences	3
PSYC 101	General Psychology	3

Electives in CRJU (choose one of the following)

CRJU 202	Comparative Criminal Justice Systems	3
CRJU 212	Police and Community Relations	3

CRJU 217	Organized and White Collar Crime	3
CRJU 219	Victimology	3
CRJU 222	Women and the Criminal Justice System	3
CRJU 308	Juveniles and the Law	3
CRJU 310	Introduction to Criminal Investigation	3
CRJU 405	Introduction to Criminalistics	3

Other Requirements

- Successful completion of comprehensive exam.

See Minor in Criminal Justice on page 143

See Minor in Pre-law on page 148

Criminal Justice BA/MA Program

The School of Arts and Sciences offers a BA/MA program that enables students to complete requirements for both the Bachelor of Arts and Master of Arts degrees in Criminal Justice in five years. Undergraduates seeking admission to the dual degree program must have a minimum overall GPA of 3.0 and are eligible to apply in the spring semester of the junior year (the deadline for applications is March 1st). To apply for admission, candidates must submit the following materials to the Admissions Office:

- Completed Application to the Graduate Program in Criminal Justice
- Official Undergraduate Transcript(s)
- Academic Writing Sample
- Letter of Recommendation from the Academic Advisor

Following review of all application materials, admission to the dual degree program will require the approval of the Graduate Program Director, the Division Head of Mathematics and the Sciences and the Dean of the School of Arts and Sciences. Accepted students will be permitted to take no more than six credits of graduate course work during the senior year of undergraduate study. These six graduate credits will be charged at the undergraduate tuition rate.

Specific graduate program requirements can be found in the Holy Family University Graduate Studies Catalog. Additional information can be provided by the student's academic advisor or by the Graduate Program Director.

Accelerated Criminal Justice Track

The accelerated BA-Criminal Justice Program at Holy Family University offers courses in five-week sessions that can be taken on a full-time or part-time basis. The focus of the Criminal Justice option is to prepare students for work in the various branches of the justice system including law enforcement or police work; the courts or legal system; corrections, probation, and parole; and services to offenders, potential offenders, and their families. Students also will deal with both the theoretical and pragmatic aspects of justice. A total of up to 84 credits, including the Philadelphia Police Academy, may be awarded through an individual evaluation of the student's past and present academic experiences. A minimum of 39 of the 123 credits required for the degree must be taken at Holy Family University. All policies and procedures are listed in the *Division of Extended Learning Undergraduate Student Handbook July 2010*

English

Goals

- To provide the student with two options of concentration: Literature or English-Secondary Education
- To attain the objectives of correct and effective expression in writing and speaking, meaningful literary comprehension, and understanding of the function of language in written and oral communications
- To develop critical ability to recognize cultural implications and interrelationships
- To further the student's career goals and to expand his or her professional options.

Requirements

Core Curriculum: BA Requirements (credits)		45
Courses taken as part of the core:		
ENGL 101, 102	Writing I, II	3, 3
	or	
ENGL 103, 104	Honors Writing I, II	3, 3
ENGL 115	Public Speaking	3

Concentration

All concentration requirements are taken in addition to core requirements.

Requirements

ENGL 201, 202	World Literature I, II	3, 3
ENGL 203, 204	American Literature I, II	3, 3
ENGL 205, 206	British Literature I, II	3, 3
ENGL 309	Creative Writing	3
ENGL 327	Junior Seminar: Literature	3
ENGL 400	The English Language	3
ENGL 425	Senior Seminar: Literature	3
Elective courses (credits)		15

Fifteen credits to be distributed in the following way:

English Elective #1: Choose from among 200-level literature courses

English Elective #2 and #3: Choose from among 300-level literature courses [English 302, Shakespeare, strongly recommended]

English Elective #4 and #5: Choose from among 400-level literature and writing courses.

Optional

ENGL 350	Cooperative Education Option I	2-4
ENGL 351	Cooperative Education Option II	2-4

Other requirements

- Successful completion of comprehensive exam.

Secondary Certification (Grades 7-12)

For teacher certification requirements in English, see School of Education.

See Minor in American Studies on page 140

History

Goals

- To further the analytical examination of evidence based on a sound historical methodology
- To develop frames of reference that will enable the student to view himself or herself in relation to mankind, and his or her historical knowledge in relation to other disciplines
- To enrich and expand the student personally and civically through knowledge of the Western heritage upon which democratic society is built
- To emphasize the continuity of society in all its forms and to be aware of the process and the necessity of change
- To prepare the concentrator for: graduate study; law school; a teaching career in history; or public service-related professions, such as civil service, journalism, legal research, and insurance.

Requirements

Core Curriculum: BA Requirements (credits) 45

Concentration

All concentration requirements must be taken in addition to core requirements.

HIST 108	Global History to 500 C.E.	3
HIST 109	Global History 500-1700	3
HIST 203	American History to 1820	3
HIST 204	American History, 1820-1920	3
HIST 205	American History Since 1920	3
HIST 208	Global History, 1700-present	3
HIST 351	History Seminar I	3
HIST 451	History Seminar II	3
Four history electives, including at least one course in non-Western history		12

POLS 103	Introductory Politics	3
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Recommended

GEOG 205	Principles of Geography	3
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Other Requirements

- Successful completion of comprehensive exam.

Secondary Certification (Grades 7-12)

For teacher certification requirements in History/Social Studies, see School of Education.

See Minor in History on page 144

See Minor in American Studies on page 140

Interdisciplinary Humanities

Goals

- To provide a flexible interdisciplinary program that offers direction in the liberal arts for students who wish to pursue a curriculum based in more than one discipline
- To counteract a parochial, departmentalized view of intellectual inquiry
- To integrate the various disciplines and to affirm the value of a broad-based Education that cultivates habits of mind and breadth of outlook, and demands a tolerance for diverse views
- To produce within the student a capacity to adapt without surrendering essential standards
- To evoke meaningful, lifelong learning in terms of human fulfillment.

Requirements

Core Curriculum: BA Requirements (credits)

45

In addition to the core requirements, at least one course from each Humanities discipline: Fine Arts, History, Literature (English or Foreign), Philosophy, Religious Studies; four additional courses in the student's chosen area of study; five additional Humanities courses; seminars in both Junior and Senior year, at least one of which is in the area of study.

Areas of Study

- American Studies: courses from American literature and American History
- Studio Art/Art History: any studio courses plus ARTS 213 and ARTS 214
- Catholic Studies: courses in Religious Studies that focus on Catholic teaching
- European Studies: courses from European History, Art Appreciation, Music Appreciation, and Opera
- Ethical Studies: combination of courses in Philosophy and Religious Studies.
- Fine Arts: combination of courses in Music, Theater (Film, Acting, Visual Arts)
- History: combination of History offerings
- Literature: combination of courses in English literature
- Philosophy: any Philosophy offerings beyond core requirements
- Religious Studies: any combination of Religious Studies offerings beyond core requirements.

Concentration

One course from each of the following areas:

Art	3
History	3
Literature	3
Philosophy	3
Religious Studies	3
Four additional courses in area of study	12
Five additional courses in the Humanities	15
Seminars (including at least one in area study)	6

Refer to specific disciplines in this catalog for course offerings appropriate to this major.

Other Requirements

- Successful completion of comprehensive exam.

Mathematics

Goals

- To provide a comprehensive instruction in foundational, theoretical and applied mathematics
- To educate students in application of appropriate strategies and technology in problem solving
- To educate students to effectively communicate and interpret mathematics
- To prepare students to meet career goals, such as, employment, pre professional and in-service education at the middle and secondary levels, or graduate study.

Requirements

Core Curriculum: BA Requirements (credits) 45

Concentration

MATH 211, 212, 213	Calculus I, II, III	4, 4, 4
MATH 220	Linear Algebra with Applications	4
MATH 221	Ordinary Differential Equations	4
MATH 250	Discrete Mathematics	3
MATH 308	Probability	3
MATH 316	Modern Algebra I	3
MATH 403	Advanced Calculus	3
MATH 430	Senior Seminar	3

Plus five courses from the 300 or 400 level MATH offerings.

Other Required Courses

CMIS 107	Structured Programming	3
PHIL 202	Logic	3
PHYS 201, 201L, 202, 202L	General Physics I, II	4, 4

Other Requirements

- Successful completion of comprehensive exam
- Continuation in the major requires a GPA of 2.5 in all completed Mathematics courses
- At least nine credits in upper-division courses (numbered 220 or higher) must be completed in the division to meet degree requirements.
- For teacher certification requirements in Mathematics see School of Education.

See Minor in Actuarial Science on page 139

See Minor in Mathematics on page 145

See Minor in Middle School Mathematics on page 146

See Minor in Math/Secondary Education on page 198

Psychobiology

Goals

- To provide concentrators with a firm base of knowledge in both disciplines of Psychology and Biology
- To prepare students for positions in research in the behavioral, pharmacological, paramedical, and medical sciences.

Requirements

Core Curriculum: BA Requirements (credits) 45

Concentration

BIOL 120, 121	Biological Principles I, II	4, 4
BIOL 207, 208	Anatomy and Physiology I, II	4, 4
BIOL 209	Cell Biology	3
BIOL 210	Introduction to Scientific Techniques	
	or	
BIOL 312	Cell-Cell Interaction	3
BIOL 304	Principles of Genetics	3
BIOL 326	Seminar: Inorganic, Organic, and Cultural Evolution	2
CHEM 120, 121	Chemistry Principles I, II	4, 4
PSYC 101	General Psychology	3
PSYC 206	Child and Adolescent Development	3
PSYC 305	Physiological Psychology	3
PSYC 311	Statistics for Social and Behavioral Sciences	3
PSYC 323	Quantitative Research Methods	3
PSYC 333	Learning	3
PSYC 425	Tests and Measurements	3
PSYC 431	Seminar: Contemporary Issues in Psychology	3
PSYC 433	Advanced Research in Psychology	3
Electives in Natural Science or Psychology		9

Other Requirements

Successful completion of a comprehensive exam in both Psychology and Biology. Continuation in the major requires a GPA of 2.5 in all completed science courses. At least nine credits in 200/300-level science offerings must be completed in the school to meet degree requirements.

Psychology

Goals

- To provide students with a broad-based foundation in the field of Psychology
- To introduce students to the scientific method and the role of empirical research in Psychology
- To highlight the important role psychology can play in addressing individual, organizational, and social problems
- To endow students with the professional and academic skills needed for graduate study or for entry-level positions in the mental health field
- To encourage students to make paramount the protection of human dignity in their interactions with others.

Requirements

Core curriculum: BA requirements (credits) 45

Courses required of all students – General Track

PSYC 101*	General Psychology	3
PSYC 102	Psychology as a Natural Science	3
PSYC 206	Child and Adolescent Development	3
PSYC 211	Scientific Writing for the Social and Behavioral Sciences	3
PSYC 305	Physiological Psychology	3
PSYC 311	Statistics for the Social and Behavioral Sciences	3
PSYC 318	Globalization	3
PSYC 323	Quantitative Research Methods	3
PSYC 324	Qualitative Research Methods	3
PSYC 331	Sensation & Perception	3
	or	
PSYC 332	Cognitive Processes	3
PSYC 333	Learning	3
PSYC 343	Social Psychology	3
PSYC 345	Abnormal Psychology	3
PSYC 346	Theories of Personality	3
PSYC 352	Junior Seminar in Psychology	3
PSYC 431	Seminar: Contemporary Issues in Psychology	3

**Must be taken by psychology concentrators as a prerequisite for all other PSYC courses*

PSYC electives – 2 courses 6

Also required

SOCO 101	Introductory Sociology	3
PHIL 307	Social Ethics	3

Other requirements

Successful completion of comprehensive exam.

Courses required of all students – Mental Health Services Track

PSYC 101*	General Psychology	3
PSYC 102	Psychology as a Natural Science	3
PSYC 206	Child and Adolescent Development	3
PSYC 209	Psychology of the Exceptional Child	3
PSYC 211	Scientific Writing for the Social & Behavioral Sciences	3
PSYC 220	Addictions	3
PSYC 305	Physiological Psychology	3
PSYC 311	Statistics for the Social and Behavioral Sciences	3
PSYC 318	Globalization	3
PSYC 323	Quantitative Research Methods	3
PSYC 324	Qualitative Research Methods	3
PSYC 331	Sensation & Perception	3
	or	
PSYC 332	Cognitive Processes	3
PSYC 333	Learning	3
PSYC 343	Social Psychology	3
PSYC 344	Group Dynamics	3
PSYC 345	Abnormal Psychology	3
PSYC 346	Theories of Personality	3
PSYC 350	Internship in Psychology	3
PSYC 352	Junior Seminar in Psychology	3
PSYC 405	Introduction to Counseling	3
PSYC 431	Seminar: Contemporary Issues in Psychology	3

**Must be taken by psychology concentrators as a prerequisite for all other PSYC courses*

Also required

SOCO 101	Introductory Sociology	3
SOCO 202	Introduction to the Social Welfare System	3
PHIL 307	Social Ethics	3

Other requirements

Successful completion of comprehensive exam.

Courses required of all students – Research Track

PSYC 101*	General Psychology	3
PSYC 102	Psychology as a Natural Science	3
PSYC 206	Child and Adolescent Development	3
PSYC 211	Scientific Writing for the Social and Behavioral Sciences	3
PSYC 305	Physiological Psychology	3
PSYC 311	Statistics for the Social and Behavioral Sciences	3
PSYC 318	Globalization	3
PSYC 323	Quantitative Research Methods	3
PSYC 324	Qualitative Research Methods	3
PSYC 331	Sensation & Perception	3
	or	
PSYC 332	Cognitive Processes	3
PSYC 333	Learning	3
PSYC 343	Social Psychology	3
PSYC 345	Abnormal Psychology	3
PSYC 346	Theories of Personality	3
PSYC 352	Junior Seminar in Psychology	3
PSYC 425	Tests and Measurements	3
PSYC 431	Seminar: Contemporary Issues in Psychology	3
PSYC 433	Advanced Research for the Social and Behavioral Sciences	3

**Must be taken by psychology concentrators as a prerequisite for all other PSYC courses.*

PSYC Elective 3

Also required

SOCO 101	Introductory Sociology	3
PHIL 307	Social Ethics	3

Other requirements

Successful completion of comprehensive exam.

See Minor in Psychology on page 149

Bachelor of Arts in Psychology/Master of Arts in Criminal Justice Program

The School of Arts and Sciences offers a BA/MA program that enables students to complete requirements for both the Bachelor of Arts in Psychology and Master of Arts degrees in Criminal Justice in five years. Undergraduates seeking admission to the dual degree program must have a minimum overall GPA of 3.0 and are eligible to apply in the spring semester of the junior year (the deadline for applications is March 1st). To apply for admission, candidates must submit the following materials to the Admissions Office:

- Completed Application to the Graduate Program in Criminal Justice
- Official Undergraduate Transcript(s)
- Academic Writing Sample
- Letter of Recommendation from the Academic Advisor

Following review of all application materials, admission to the dual degree program will require the approval of the Graduate Program Director, the Division Head of Mathematics and the Sciences and the Dean of the School of Arts and Sciences. Accepted students will be permitted to take no more than six credits of graduate course work during the senior year of undergraduate study. These six graduate credits will be charged at the undergraduate tuition rate.

Specific graduate program requirements can be found in the Holy Family University Graduate Studies Catalog. Additional information can be provided by the student's academic advisor or by the graduate program director.

Psychology for Business

Goals

- To present a sound knowledge base in psychology and business that prepares the student for a career or advanced graduate studies in either discipline
- To provide Cooperative Education placements to explore various career possibilities in personnel, employee assistance, employee management relations, etc., and to integrate knowledge with practice
- To develop an understanding of social responsibility that business and industry have toward owners, employees, consumers, and society
- To help students apply their knowledge in assessing current events and in developing a sense of systematic planning for the future
- To instill an ethical-moral orientation to examining social-economic issues and problems.

Requirements

Core Curriculum: BA Requirements (credits) 45

Each course in the following common business and concentration requirements must be completed with a minimum grade of C.

Common Business Requirements

ACCT 205	Principles of Financial Accounting	3
ACCT 206	Principles of Managerial Accounting	3
BUSA 101	Mathematical Analysis for Economics and Business I	3
BUSA 102	Mathematical Analysis for Economics and Business II	3
CMIS 103	Computers Applications	3
ECON 201	Economic Theory-Macro Theory	3
ECON 202	Economic Theory-Micro Theory	3
MNMK 305	Principles of Management	3
MNMK 312	Principles of Marketing	3

Concentration

BUSA 435	Senior Seminar in Business Policy	3
MNMK 413	Quantitative Methods for Decision-Making	3
MNMK 439	Senior Seminar in Management and Marketing	3
PSYC 101	General Psychology	3
PSYC 203	Consumer Behavior	3
PSYC 215	Industrial and Organizational Psychology	3
PSYC 311	Statistics for Social and Behavioral Sciences	3

PSYC 323	Quantitative Research Methods	3
	or	
PSYC 324	Qualitative Research Methods	3
PSYC 343	Social Psychology	3
PSYC 344	Group Dynamics	3
PSYC 425	Tests and Measurements	3
PSYC 431	Seminar: Contemporary Issues in Psychology	3
PSYC 433	Advanced Research in Psychology	3
PSYC elective		3

Recommended

PHIL 208	Business Ethics	3
PHIL 301	Ethics	3

Additional courses in CMIS, ECON, MATH, AND PSYC

Other Requirements

- Successful completion of a comprehensive exam in both Psychology and Business.

**NOTE: Pending curriculum changes may alter the required course sequence for students entering in Fall, 2011 or thereafter.*

Religious Studies

Goals

- To introduce students to the Catholic theological heritage and to its association with the liberal arts tradition
- To examine aspects of Christian faith and values in a spirit of thoughtful freedom and academic rigor
- To provide students opportunities to learn about dimensions of a Christian vision of life, including the values of moral judgment, justice, and peace
- To be sensitive to religious plurality and to diversity among students
- To provide preparation for students interested in careers in religious education and other church ministries.

Requirements

Core Curriculum: BA Requirements (credits) 45

Concentration*

RELS 104	World Religions	3
RELS 105	Introduction to the Four Gospels	3
RELS 106	Introduction to the Hebrew Scriptures	3
RELS 113	The Sacraments	3
RELS 210	Jesus the Christ	3
RELS 301	Christian Morality	3
RELS 325-330	Junior Seminar	3
RELS 425	Senior Seminar	3

Select three credits from the following requirements

RELS 112	History of Christianity I	3
RELS 212	History of Christianity II	3

Select six credits from the following Biblical requirements

RELS 107	The Gospel According to Mark	3
RELS 109	The Gospel According to Matthew	3
RELS 110	The Gospel According to Luke	3
RELS 203	The Gospel According to John	3
RELS 205	Prophets of Israel	3
RELS 207	Introduction to Saint Paul	3

Select three credits from the following Moral requirements

RELS 310	Christian Marriage in the Modern World	3
RELS 315	The Gospel of Peace and Justice	3
RELS 405	Life and Death: Christian Decision-Making	3

Select 6 credits from the following Theology requirements

RELS 206	Women and Religion	3
RELS 213	History of the Catholic Church in the United States	3
RELS 215	Religion in America	3
RELS 409	Christian Mysticism	3
RELS 410	Dante's Divine Comedy	3
RELS 431-499	Special Topics	3

Recommended

PHIL 207	Philosophy of Religion	3
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Other Requirements

- Successful completion of comprehensive exam.

See Minor in American Studies on page 140

See Minor in Religious Studies on page 150

See Minor in Math/Secondary Education on page 194

Sociology

Goals

- To offer students a solid foundation in the discipline, with special emphasis on the "sociological perspective"
- To provide students with a thorough understanding of the various perspectives and research traditions reflected in sociological theory
- To introduce students to the basic elements of sociological research
- To allow students to synthesize active learning in the classroom and increase engagement in the community through successful "sociological practice"
- To develop in students the academic and professional skills that will enable them to succeed professionally in some area of sociological practice upon graduation.

Requirements

Core curriculum: BA requirements (credits) 45

Courses required of all students – General Track

SOCO 101	Introductory Sociology	3
SOCO 201	Social Problems	3
SOCO 203	Social Theory	3
SOCO 208	Social Deviance	3
SOCO 211	Scientific Writing for the Social and Behavioral Sciences	3
SOCO 212	Race, Class and Gender	3
SOCO 311	Statistics for the Social and Behavioral Sciences	3
SOCO 318	Globalization	3
SOCO 323	Quantitative Research Methods	3
SOCO 324	Qualitative Research Methods	3
SOCO 330	Junior Seminar in Social Sciences	3
SOCO 343	Social Psychology	3
SOCO 344	Civic Engagement: Understanding the Community	3
SOCO 350	Internship in Sociology	3
SOCO 430	Senior Seminar in Social Sciences	3
SOCO 433	Advanced Research for the Social and Behavioral Sciences	3
SOCO Electives (2)		6

Also required

PSYC 101	General Psychology	3
ECON/POLS/ANTH Elective		3

Other requirements

Successful completion of comprehensive exam.

Courses required of all students – Public Health Services Track

In addition to the goals of the general sociology track, an added goal of the Public Health Services Track is to develop academic and professional skills to work with people who are sick or have chronic health problems.

SOCO 101	Introductory Sociology	3
SOCO 201	Social Problems	3
SOCO 202	Introduction to the Social Welfare System	3
SOCO 203	Social Theory	3
SOCO 205	Principles of Interviewing	3
SOCO 208	Social Deviance	3
SOCO 211	Scientific Writing for the Social and Behavioral Sciences	3
SOCO 212	Race, Class and Gender	3
SOCO 310	Medical Sociology	3
SOCO 311	Statistics for the Social and Behavioral Sciences	3
SOCO 318	Globalization	3
SOCO 323	Quantitative Research Methods	3
SOCO 324	Qualitative Research Methods	3
SOCO 330	Junior Seminar in Social Sciences	3
SOCO 343	Social Psychology	3
SOCO 344	Civic Engagement: Understanding Human Community Through Service Learning	3
SOCO 350	Internship in Sociology	3
SOCO 430	Senior Seminar in Social Sciences	3
	Public Health Services Track Elective	3

(Choose from SOCO 206, 219, 305, 340, 341, 342, or PSYC 209)

Also required

PSYC 101	General Psychology	3
PSYC 212	Psychology of Health & Illness	3
	ECON/POLS/ANTH elective	3

Other requirements

Successful completion of comprehensive exam.

Courses required of all students – Child & Family Services Track

In addition to the goals of the general sociology track, an added goal of the

Child and Family Services Track is to develop academic and professional skills to work with children and families in a number of capacities.

SOCO 101	Introductory Sociology	3
SOCO 201	Social Problems	3
SOCO 202	Introduction to the Social Welfare System	3
SOCO 203	Social Theory	3
SOCO 205	Principles of Interviewing	3
SOCO 206	Marriage & the Family	3
SOCO 208	Social Deviance	3
SOCO 211	Scientific Writing for the Social and Behavioral Sciences	3
SOCO 212	Race, Class and Gender	3
SOCO 311	Statistics for the Social and Behavioral Sciences	3
SOCO 318	Globalization	3
SOCO 323	Quantitative Research Methods	3
SOCO 324	Qualitative Research Methods	3
SOCO 330	Junior Seminar in Social Sciences	3
SOCO 341	Family Violence	3
SOCO 343	Social Psychology	3
SOCO 344	Civic Engagement: Understanding Human Community Through Service Learning	3
SOCO 350	Internship in Sociology	3
SOCO 430	Senior Seminar in Social Sciences	3
	Child and Family Services Track Elective	3

(Choose from SOCO 219, 305, 340, 342; CRJU 308; or PSYC 209, 308)

Also required

PSYC 101	General Psychology	3
	ECON/POLS/ANTH elective	3

Other requirements

Successful completion of comprehensive exam.

**NOTE: Curriculum changes may alter the required sequence of courses for students entering after Fall, 2009.*

See Minor in American Studies on page 140

See Minor in Sociology on page 151

Sociology/Criminal Justice BA/MA Program

The School of Arts and Sciences offers a BA/MA program that enables students to complete requirements for both the Bachelor of Arts in Sociology and Master of Arts degrees in Criminal Justice in five years. Undergraduates seeking admission to the dual degree program must have a minimum overall GPA of 3.0 and are eligible to apply in the spring semester of the junior year (the deadline for applications is March 1st). To apply for admission, candidates must submit the following materials to the Admissions Office:

- Completed *Application to the Graduate Program in Criminal Justice*
- Official undergraduate transcript(s)
- Academic writing sample
- Letter of recommendation from the Academic Advisor

Following review of all application materials, admission to the dual degree program will require the approval of the Graduate Program Director, the Division Head of Mathematics and the Sciences and the Dean of the School of Arts and Sciences. Accepted students will be permitted to take no more than six credits of graduate course work during the senior year of undergraduate study. These six graduate credits will be charged at the undergraduate tuition rate.

Specific graduate program requirements can be found in the *Holy Family University Graduate Studies Catalog*. Additional information can be provided by the student's academic advisor or by the Graduate Program Director.

Minors

Minor in Actuarial Science (6 courses/18-21 credits)

The declared minor in actuarial science is a multidisciplinary minor which focuses on the application of mathematics and statistics to the study of risk management. Formal coursework in completing Option I or Option II of the minor in actuarial science will help to prepare the student for the Casualty Actuarial Society and the Society of Actuaries (CAS/SOA) Joint Exams 1 and 2 and meet the Validation by Educational Experience (VEE) requirement for Economics. Option III of the minor in actuarial science will help to prepare the student for CAS/SOA Joint Exam 1 and meet VEE requirements for Economics. Minimum grade of C is required. Only 6 transfer credits will be accepted toward the minor.

Option 1 - Actuarial Science with a Major in Mathematics (18 credits)

Required Courses:

ECON 201	Economic Theory – Macro Theory	3
ECON 202	Economic Theory – Micro Theory (Prerequisite: ECON 201)	3
ECON 303	Money and Banking (Monetary Theory) (Prerequisite: ECON 201)	3
BUSA 311	Principles of Finance (Prerequisites: ECON 201, ECON 202, ACCT 206, BUSA 102*)	3
ACCT 205	Principles of Financial Accounting	3
ACCT 206	Principles of Managerial Accounting (Prerequisite: ACCT 205)	3

*MATH 212 replaces BUSA 102 as the prerequisite.

Option II - Actuarial Science with a Major in Business (21 credits)

Required Courses: (15 credits)

MATH 212	Calculus II (Prerequisite: MATH 211 or BUSA 101 & 102*)	4
MATH 213	Calculus III (Prerequisite: MATH 212)	4
MATH 220	Linear Algebra (Prerequisite: MATH 211)	4
MATH 308	Probability (Prerequisite: MATH 212)	3

Two Additional Courses: (6 credits)

ECON 303	Money and Banking *	3
	or	
MATH 401, 405 or 410		3

BUSA 311	Principles of Finance *	
	or	
MATH 401, 405 or 410		3

**If these are required in the major then the math courses are selected. MATH 401 is always the first alternative for ECON 303 or BUSA 311.*

Option III - Actuarial Science for the Non-Business and Non-Math Majors (19 - 21 credits)

Required Courses:

ECON 201	Economic Theory Macro Theory	3
ECON 202	Economic Theory Micro Theory (Prerequisite: ECON 201)	3
MATH 211	Calculus I**	4
MATH 212	Calculus II*** (Prerequisite: MATH 211)	4
MATH 213	Calculus III*** (Prerequisite: MATH 212)	4
MATH 308	Probability (Prerequisite: MATH 212)	3

***Satisfies the core quantification requirement*

****If any of these courses are required in a particular program, they can be replaced by any courses from the following list:*

CMIS 103	Computer Applications	3
CMIS 107	Structured Programming	3
ECON 303	Money and Banking (Monetary Theory) (Prerequisite: ECON 201)	3
ACCT 205	Principles of Financial Accounting	3
MATH 401	Statistics (Prerequisite: MATH 308)	3

Minor in American Studies (6 courses/18 credits)

The minor in American Studies allows students to explore the social, historical, material, and aesthetic aspects of American culture from an interdisciplinary perspective integrating the humanities and the social sciences. Students electing the American Studies minor will designate a focus area by topic, by time period, or by discipline, and will choose courses to address this area in consultation with an advisor. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six courses to be selected as follows

Required course

To be taken in the first year of the minor, if possible (one course/three credits):

ENGL 263/HIST 263	Honors American Studies*	3
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Specialization (5 courses/15 credits)

Students may choose between two tracks, the Humanities track and the Social Sciences track. Students opting for the Humanities track will select three courses from the Humanities and two from the Social Sciences, with no more than two courses chosen from any one academic discipline. Students opting for the social sciences track will select three courses from the Social Sciences and two from the Humanities, with no more than two courses chosen from any one academic discipline.

Humanities Courses

ENGL 203	American Literature I	3
ENGL 204	American Literature II	3
HIST 203	American History to 1820	3
HIST 204	American History 1820 to 1920	3
HIST 205	American History since 1920	3
HIST 304	Jeffersonian and Jacksonian Democracy	3
HIST 312	American Immigration History	3
HIST 313	Women in America	3
HIST 315	History of Pennsylvania	3
HIST 316	American Foreign Policy	3
HIST 317	Revolutionary America	3
HIST 318	Atlantic Worlds	3
PHIL 307	Social Ethics	3
RELS 213	History Catholic Church US	3
RELS 215	Religion in America	3

Social Sciences Courses

ECON 407	American Economic History**	3
POLS 204	American National Government	3
POLS 206	The Presidency	3
POLS 308	American Political Parties	3
POLS 316	Constitutional Law	3
POLS 335	Issues Contemporary American Foreign Policy	3
SOCO 206	Marriage & Family	3
SOCO 305	Aging in America	3

**Permission required of the School of Arts and Sciences.*

***This has a prerequisite of ECON 103 or ECON 201.*

All prerequisites must be met for the course to be taken in the minor.

Minor in Art-Studio (6 courses/18 credits)

The minor in studio-art is designed to encourage an in depth investigation of one art making process, rather than a sampling of many. This minor offers students the opportunity to pursue a course of study in one of the following

areas: painting, sculpture, computer graphics or ceramics. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six classes to be selected as follows:

Required Courses (9 credits)

ARTS 223	Two Dimensional Design	3
ARTS 224	Three Dimensional Design	3
ARTS 225	Drawing and Composition	3
	Or	
ARTS 226	Drawing from the Model	3

Specialization (9 credits)

Painting: ARTS 319, ARTS 320, ARTS 327	9
Sculpture: ARTS 217, ARTS 218, ARTS 327	9
Ceramics: ARTS 321, ARTS 322, ARTS 327	9
Computer Graphics: ARTS 315, ARTS 317, COMM 218	9

Minor in Chemistry (6 courses/22-23 credits)

Grades in a chemistry course of less than C will not count toward the minor. Because all chemistry courses either require a laboratory or are four credits courses, this minor requires a commitment of 22 credit hours. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six courses (22-23 credits).

Requirements

GSCI 106	Chemistry and the Environment	3
CHEM 120/120L	Chemistry Principles I	4
CHEM 121/121L	Chemistry Principles II	4

Three courses from the any of the following*

CHEM 207/207L	Organic Chemistry I	4
CHEM 208/208L	Organic Chemistry II	4
CHEM 301/301L	Physical Chemistry I	4
CHEM 302/302L	Physical Chemistry II	4
CHEM 307	Advanced Inorganic Chemistry	4
CHEM 203/203L	Analytical Chemistry	4
CHEM 401/401L	Instrumental Analysis	4
CHEM 415	Modern Concepts in Biochemistry I	3
CHEM 416	Modern Concepts in Biochemistry II	3

*Some of these courses have prerequisites. Please consult course descriptions.

Minor in Communications (6 courses/18 credits)

The Communications minor offers students an introduction to Communications, allows study in specific areas of interest, and offers a grounding in de-

veloping competencies for Communication professionals. Minimum grade of C is required. Only six transfer credits will be accepted toward for the minor.

The minor consists of six courses to be selected as follows:

Required Courses (6 credits)

COMM 110	Intro to Mass Media	3
COMM 220	Communication and Culture	3

Four elective courses (12 credits)

Selected from any of the Communication program tracks: Journalism, Public Relations, or Media Arts.

Minor in Criminal Justice (6 courses/18 credits)

The minor in Criminal Justice provides the student with an introduction to the fundamentals of law enforcement, the courts, and corrections and an opportunity to specialize in a particular area. Comprised of **18 semester hours in any criminal justice courses** (i.e., only courses with a designation of "CRJU" will count toward the minor, provided that all prerequisites have been met), the minor prepares students for graduate study in criminal justice or criminology or a career in a criminal justice-related field. The full-time faculty in criminal justice will work to tailor the specific course selection to suit individual students upon request. Grades of less than "C" in criminal justice will not count toward the minor.

Students who graduate with a completed minor in criminal justice will be able to:

- Discuss each of the components of the American criminal justice system, paying particular attention to structure and process;
- Compare and contrast criminological theories with regard to their efficacy and validity in explaining particular types of crimes and
- Evaluate proposed solutions to current challenges confronted by practitioners working in the criminal justice system.

The minor consists of six courses to be selected as follows:

CRJU 101	Introduction to the Criminal Justice System	3
CRJU 200	Nature of Crime and Delinquency**	3
CRJU 202	Comparative Criminal Justice Systems	3
CRJU 210	Law Enforcement**	3
CRJU 212	Police and Community Relations**	3
CRJU 217	Organized & Organizational Crimes	3
CRJU 219	Victimology	3
CRJU 222	Women in the Criminal Justice System**	3
CRJU 299	Special Topics	3
CRJU 300	Corrections**	3
CRJU 308	Juveniles and the Law**	3

CRJU 310	Introduction to Criminal investigation**	3
CRJU 317	Criminal Law**	3
CRJU 318	The Court System and Court Procedures**	3
CRJU 330	Junior Seminar in the Social Sciences**	3
CRJU 403	Probation and Parole**	3
CRJU 405	Introduction to Criminalistics	3
CRJU 423	Advanced Research in Criminal Justice**	3
CRJU 430	Senior Seminar in the Social Sciences**	3
CRJU 499	Special Topics	3

***All prerequisites must be met for the course to be taken in the minor.*

Minor in History (6 courses/18 credits)

The History minor offers students an introduction to World and American History, allows them to study in depth an area of interest, and provides training in historical methodology. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six classes to be selected as follows:

Required Courses (12 credits)

Two courses in Western European History:

HIST 108	Global History to 500 C.E.	3
HIST 109	Global History 500-1700	3

Two courses in American History, chosen from among

HIST 203	American History to 1800	3
HIST 204	American History 1820 to 1920	3
HIST 205	American History Since 1920	3

Two additional courses (6 credits)

From 300 or 400 level courses, one of which must be a history seminar.

Minor in Literature (6 courses/18 credits)

Literature enhances any program. Reading the masters of literature provides a cultural perspective that distinguishes an educated person; a close study of Literature improves critical thinking and an appreciation for good writing, both of which provide a strong foundation for any career. The Literature minor combines both survey and specialty courses. Shakespeare, Romantic and Victorian authors, mythology, poetry, and the literary genres are available for elective. Creative writing or theater courses are also available. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six courses to be selected as follows:

Required Courses (12 credits)

ENGL 201 or 202	World Literature I or II	3
ENGL 203 or 204	American Literature I or II	3
ENGL 205 or 206	British Literature I or II	3
ENGL 327	Junior Seminar: Literature	3
Or		
ENGL 425	Senior Seminar: Literature (on recommendation of English faculty)	3

Electives: Two courses (6 credits) selected from the following

One 300 level course	3
One 400 level course or one Theater course	3

All prerequisites must be met for the course to be taken in the minor.

Minor in Mathematics (6 courses/21-23 credits)

The minor in Mathematics allows the students to deepen their Mathematical background while pursuing their major. This minor can be beneficial to students concentrating in business or science who wish a broader knowledge of the power of Mathematics within and outside their field. Any student who wishes to explore the beauty of mathematics but does not want to major in it can also pursue the minor. Only six transfer credits will be accepted toward the minor.

Required Courses: (4 courses/15 credits)

MATH 211	Calculus I	4
MATH 212	Calculus II	4
MATH 220	Linear Algebra	4
MATH 250	Discrete Math	3

Two additional math courses: (6-8 credits)

200 level or higher, one of which must be 300 level or higher.

Some suggested tracks for specialization are given below:

Applied Math	MATH 221	Ordinary Differential Equations
Applied Math	MATH 405	Numerical Analysis
Statistics	MATH 308	Probability
Statistics	MATH 401	Statistics
Pure Math	MATH 305	Theory of Numbers
Pure Math	MATH 316	Modern Algebra I
History of Math	MATH 303	Modern Geometry
or		
History of math	MATH 305	Theory of Numbers
History of Math	MATH 327	Junior Seminar History of Mathematics

Minor in Middle School Mathematics (6-7 courses/19-22 credits)

The Minor in Middle School Mathematics is designed to provide additional preparation in mathematics, mathematics education, and technology beyond the required mathematics in the Middle School curriculum. This minor provides the necessary content needed for education majors to become qualified and effective middle school mathematics teachers or mathematics lead teachers; however, the satisfactory completion of the minor does not guarantee the student that s/he will pass the Middle School Math Praxis exam. Any student sitting for the Praxis is encouraged to utilize available preparation materials. Since this minor prepares a student for a certification in middle school mathematics, it is restricted to education majors. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

Required Courses

MATH 121 or 150 or 211	Core Math Course	3-4
MATH 122	Mathematics for Education Majors	3
MATH 130	Elementary Statistics	3
MATH 211	Calculus I (if not taken as the core math)	4
MATH 250	Discrete Math (Prerequisite: MATH 211)	3
MATH 327	History of Mathematics (Prerequisite: MATH 211)	3

Elective Courses (3 credits)

Choose one of the following

MATH 303	Modern Geometry (Prerequisite: MATH 150)	3
MATH 305	Number Theory (Prerequisite: MATH 150, MATH 250)	3

It is recommended that the student declare this minor in either their Freshman or Sophomore year.

Minor in Natural Sciences (6 Courses, 22 Credits)

The Minor in the Natural Sciences prepares the Holy Family student to think globally and will give the student the opportunity to experience and to explore the breadth of the Natural Sciences. Essential biological and chemical principles of nature will be presented as an interplay between chemical and physical Laws and their impact upon both living and non-living systems. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

Required courses

BIOL 120, 120L	Biological Principles I (No prerequisites)	4
BIOL 121, 121L	Biological Principles II (Prerequisite 120, 120L)	4

CHEM 120, 120L	Chemistry Principles I (Appropriate preparatory course or MATH 150)	4
CHEM 121, 121L	Chemistry Principles II (Prerequisites: CHEM 120, 120L)	4
GSCI 108	The Environment of the Planet Earth (No prerequisites)	3
GSCI 110	The Science of Physics (No prerequisites)	3

It is recommended that the student declare this minor in either their Freshman or Sophomore year and complete the coursework in the following sequential order:

- Year 1: BIOL 120,120L (Fall) and BIOL 121, 121L (Spring)
- Year 2: CHEM 120, 120L (Fall) and CHEM 121, 121L (Spring)
- Year 3: GSCI 108 (Fall) and GSCI 110 (Spring)

Minor in Philosophy (6 courses/18 credits)

The minor in Philosophy provides students with the opportunity to enhance their education with a firm grounding in the practice of analysis and critical thinking characterized by the careful exploration of philosophical concepts. With an emphasis on ethical theory and practice supplemented by offerings in basic areas of philosophical concepts, the Philosophy Minor is an enriching accompaniment to any major. The full time philosophy faculty will tailor a variety of alternative minors to suit individual students. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

Suggested Ethical Minor Model: six courses to be selected from the following

Ethical Theory (3 credits)

PHIL 301	Ethics	3
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Fundamental Theory (9 credits)

PHIL 101	Introduction to Philosophy	3
	or	
PHIL 103	Honors Introduction to Philosophy	3
PHIL 201	Philosophy of Human Nature	3
PHIL 202	Logic	3
PHIL 203	History of Philosophy I	3
PHIL 204	History of Philosophy II	3
PHIL 207	Philosophy of Religion	3
PHIL 302	Theory of Knowledge	3
PHIL 303	Philosophy of Art	3
PHIL 305	World Views	3

Applied Ethics (3 credits)

PHIL 205	Bioethics	3
PHIL 208	Business Ethics	3
PHIL 256	Law and Media Ethics	3
PHIL 307	Social Ethics	3

Elective (3 credits)

PHIL 325	Junior Seminar	3
PHIL 425	Senior Seminar	3
PHIL 426	Independent Study	3
PHIL 431-499	Special Topics	3

Minor in Political Science (6 courses/18 credits)

The minor in Political Science allows students to augment majors in Business Administration, Criminal Justice, Economics, Foreign Languages, History, Psychology, Sociology, or other social science fields. It prepares students to continue graduate study, pursue careers in government service, law or politics. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six courses to be selected as follows:

Required Courses (9 credits)

POLS 103	Introductory Politics	3
POLS 204	American National Government	3
POLS 321	Comparative Political Systems	
	or	
POLS 210	Introduction to International Relations	3

Three elective courses in Political Science (9 credits)**Minor in Pre-Law (6 courses/18 credits)**

The minor in Pre-Law allows students to explore in an interdisciplinary manner the philosophical, political, criminal, and psychological aspects of American society toward preparation for legal studies after graduation and a career in law. Courses should be selected in consultation with the Pre-Law Advisor. Minimum grade of C is required. Only six transfer credits will be accepted for the minor.

The minor in Pre-Law consists of six courses (18 credits) to be selected as follows:

Required Courses (9 credits):

PHIL 202	Logic	3
POLS 316	Constitutional Law	3
CRJU 317	Criminal Law	3

Elective Courses (9 credits):

CRJU 308	Juveniles and the Law	3
CRJU 318	The Court System and Court Procedure	3
PHIL 265	Law and Ethics in Media	3
PHIL 301	Ethics	3
PHIL 307	Social Ethics	3
PHIL 433	Philosophy of Justice	3
POLS 204	American National Government	3
PSYC 341	Family Violence	3
PSYC 343	Abnormal Psychology	3

Any prerequisites must be met prior to taking a minor course.

Minor in Psychology (6 courses/18 credits)

The minor in Psychology gives the student an introduction to the content and methodology of the field. Courses are required from both the social and biological areas of the discipline. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of 6 courses to be selected as follows:

Requirements (6 credits)

PSYC 101	General Psychology (formerly PSYC 201)	3
PSYC 102	Psychology as a Natural Science	3

Choose one of the following developmental groupings*

PSYC 206	Child and Adolescent Development*	3
PSYC 207	Adult Development and Aging*	3
PSYC 208	Lifespan Development for Non-Majors*	3
PSYC 209	Psychology of the Exceptional Child	3
PSYC 308	Guidance of Children**	3

Choose one of the following biological/cognitive groupings

PSYC 305	Physiological Psychology***	3
PSYC 331	Sensation & Perception***	3
PSYC 332	Cognitive Processes***	3
PSYC 333	Learning***	3

Choose one of the following clinical/applied groupings

PSYC 210	Gender Issues	3
PSYC 215	Industrial/Organizational Psychology	3
PSYC 220	Addictions	3
PSYC 341	Family Violence	3
PSYC 342	Loss & Grief	3

PSYC 343	Social Psychology****	3
PSYC 345	Abnormal Psychology****	3
PSYC 346	Theories of Personality****	3
<i>One additional course from any of the groupings above*:</i>		3

* *Exception: PSYC 208 may not be chosen if the student has completed PSYC 206 or PSYC 207.*

PSYC 206 or PSYC 207 may not be taken if the student has taken PSYC 208.

***Prerequisite: PSYC 206 or 208*

****Prerequisite: PSYC 101 and 102*

*****Prerequisite: PSYC 101*

All prerequisites must be met for the course to be taken in the minor.

Minor in Religious Studies (6 courses/18 credits)

The Religious Studies minor provides students with a deeper and broader exploration into various disciplines of theological study. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six courses: 15 credits + 3 credits from a core Religious Studies course.

Required Courses: (9 credits)

Core Religious Studies		3
RELS 210	Jesus the Christ	3
RELS 301	Christian Morality	3

One course (3 credits) in Scripture chosen from among

RELS 107	The Gospel according to Mark	3
RELS 109	The Gospel according to Matthew	3
RELS 110	The Gospel according to Luke	3
RELS 205	Prophets of Israel	3
RELS 207	Introduction to Saint Paul	3

One course (3 credits) in Systematic Theology chosen from among

RELS 113	Sacraments	3
RELS 202	Methods in Religious Education	3
RELS 206	Women and Religion	3
RELS 215	Religion in America	3
RELS 310	Christian Marriage in the Modern World	3
RELS 315	The Gospel of Peace and Justice	3
RELS 408	The Church in the Modern World	3
RELS 409	Christian Mysticism	3
RELS 410	Dante's Divine Comedy	3
RELS 325/425	Junior or Senior Seminar	3
RELS 431-499	Religious Studies Special Topics	3

One course (3 credits) in Historical Theology chosen from among

RELS 112	History of Christianity I	3
RELS 212	History of Christianity II	3
RELS 213	History of the Catholic Church in the U.S.	3
RELS 215	Religion in America	3
RELS 408	The Church in the Modern World	3

Minor in Sociology (6 courses/18 credits)

The minor in Sociology gives the student an introduction to the content and methodology of the field. All prerequisites must be met for the course to be taken in the minor. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six courses to be selected as follows:

Requirement Courses: (12 credits)

SOCO 101	Introductory Sociology (Core)	3
SOCO 201	Social Problems	3
SOCO 203	Social Theory	3
SOCO 212	Race, Class, & Gender	3

Choose one 300 Level SOCO Course from Group 2: (3 credits)

SOCO 305	Aging in America	3
SOCO 306	Sociology of the City	3
SOCO 310	Medical Sociology	3
SOCO 315	Sociology of Work	3
SOCO 330	Junior Seminar in the Social Sciences	3
SOCO 341	Family Violence	3
SOCO 342	Loss and Grief	3
SOCO 343	Social Psychology	3
Sociology Elective		3

Student may choose ANY Sociology course.

Minor in Spanish (6 courses/18 credits)

The objective of the minor in Spanish is to enable students majoring in any field to acquire proficiency in the language, understanding the richness of its culture, and knowledge of the countries in which the language is spoken. The coursework needed to earn a minor in Spanish at Holy Family is challenging but achievable. It is thought to provide the necessary linguistic and cultural skills, and knowledge that the students will need to function successfully in the target language, in a variety of situations and topics. Minimum grade of C is required. Only six transfer credits will be accepted toward the minor.

The minor consists of six courses at the 200 level and above.

Required Courses (6 credits)

SPAN 201	Advanced Grammar and Conversation I	3
SPAN 202	Advanced Grammar and Conversation II	3

Electives: (Language, Literacy, Content and Literature courses)

Choice of three (9 credits)

SPAN 204	Spanish-American Civilization	3
SPAN 302	Hispanic Influences in the US (taught in English)	3
SPAN 308	Applied Linguistics	3
SPAN 309	Conversation and Language Activities I	3
SPAN 310	Conversation and Language Activities II	3
SPAN 311	Spanish Non-Fiction	3

Choice of one (3 credits)

SPAN 315	Literary Analysis	3
SPAN 449	Readings in Spanish	3

**All prerequisites must be met for the course to be taken in the minor.*