PROGRAMS OF STUDY

ACCOUNTING

Mr. Matthew Daly, Associate Professor, Chairperson

Mr. Don W. Bush, Associate Professor

Mr. Thomas Edmonds, Associate Professor

Dr. Michael Polakovic, Associate Professor

MISSION STATEMENT

The Division of Business provides business education within a traditional college experience, emphasizing analytical models, technical systems, and contemporary competencies. Within a moral, ethical, and intellectual framework, students pursue an understanding of the changing world of business and economic systems in the global business community.

The faculty is committed to personal and professional integrity and competence in the service of others. In this way students are challenged to academic accountability and excellence. The division's purpose is to graduate students prepared for careers as competent professionals and good citizens who answer for themselves "How ought we to live?"

DIVISION OF BUSINESS REGULATIONS

1. A student must have a grade point average of 3.000 or greater to enroll in an Independent Studies course or Special Studies course. Any deviation from the specified minimum grade point requirement needs approval by the division director upon recommendation of the student's advisor.
2. A student must have a grade point average of 2.500 or greater and be of Junior or Senior standing to enroll in AC 498E-W--Internship in Accounting. No more than one internship may be taken each semester. Any deviation from these requirements needs approval of the division director upon recommendation of the student's advisor.
3. Students who major or minor in Accounting may not use credit earned in Internship courses to fulfill major/minor requirements for the degree. However, all students are strongly encouraged to complete an internship or to obtain equivalent work experience before graduation.

Accounting Major	**57-58 SH**
Lower Division Requirements	*24-25 SH*
AC 320A--Principles of Accounting I	3 SH
AC 320B--Principles of Accounting II	3 SH
EC 320--Principles of Macroeconomics	3 SH
EC 330--Principles of Microeconomics	3 SH
BA 250--Introduction to Business	3 SH
MT 270/MT 270C--Introduction to Statistics	3 SH
BA 282--Introduction to Information Systems Concepts	3 SH
MT 340--Quantitative Methods or MT 370--Intermediate Statistics or MT 360A--Calculus I or EC 425--Econometrics	3-4 SH
Upper Division Requirements	*33 SH*
Twenty-seven upper division Accounting and Business Administration courses, which must include:	
AC 410A--Intermediate Accounting I	3 SH
AC 410B--Intermediate Accounting II	3 SH
AC 410C--Intermediate Accounting III	3 SH
AC 440--Cost Accounting	3 SH
AC 450A--Income Tax Accounting I	3 SH
AC 480--Auditing Principles and Procedures	3 SH
BA 420--Marketing	3 SH
BA 430--Business Finance	3 SH
BA 481A--Business Law I	3 SH
Plus six upper division semester hours of Accounting elective courses selected from the following:	
AC 420--Advanced Accounting	3 SH
AC 450B--Income Tax Accounting II	3 SH
AC 460--Governmental and Not-for-Profit Accounting	3 SH
AC 470--Accounting Theory	3 SH

PREPARING FOR THE CPA EXAM

The Societies of Certified Public Accountants in most states have approved a requirement that people sitting for the CPA Exam must have completed 150 hours of college level coursework, but requirements do not specify which courses must be taken. It is recommended that Regis College students who plan to take the CPA Exam complete the following elective courses as part of their degree plan.

AC 420--Advanced Accounting	3 SH
AC 450B--Income Tax Accounting II	3 SH
AC 460--Governmental and Not-for-Profit Accounting	3 SH
AC 470--Accounting Theory	3 SH
BA 481B--Business Law II	3 SH
BA 495E--Ethical Decision Making in Business	3 SH
Accounting Minor	**18 SH**
Lower Division Requirements	*6 SH*
AC 320A--Principles of Accounting I	3 SH
AC 320B--Principles of Accounting II	3 SH
Upper Division Requirements	*12 SH*

Twelve upper division semester hours of Accounting courses, not including AC 498-E-W--Internship in Accounting.

ACCOUNTING/MBA AND ACCOUNTING/MSA TRACK

The Accounting/MBA Track and the Accounting/MSA Track constitutes a collaborative effort among the faculty of the Division of Business at Regis College and the College for Professional Studies at Regis University. This program allows students to meet the minimum educational requirements set by most State Boards of Accountancy for those who wish to take the CPA Exam. Students who complete this program receive a Bachelor of Science in Accounting degree, and a Master of Business Administration (MBA) degree with a Finance and Accounting Specialization or a Bachelor of Science in Accounting and a Master of Science in Accounting (MSA).

Admission

Students must apply for admission to the Accounting/MBA Track or the Accounting/MSA Track when they achieve Junior standing in the University. An advisor from the Regis University MBA/MSA Program serves as the student's evaluator and makes the final decision regarding admission to the graduate program. The application process includes a minimum of the following:

- a summary application
- a writing sample submission
- grade point average review
- personal interviews with the student and the student's undergraduate advisors and instructors.

Depending on the MBA/MSA advisor's evaluation, additional requirements may be imposed (e.g., taking the GMAT, taking additional courses, or additional interviews) before an admission decision is made.

Tuition and Fees

Tuition and fees for the Accounting/MBA Track and the Accounting/MSA Track are determined by both Regis College and the College for Professional Studies for their respective degrees.

Accounting/MBA Major Requirements

In addition to the requirements for the undergraduate accounting major listed previously, students in the Accounting/MBA Track also complete the requirements for an MBA: Finance and Accounting Specialization found under MBA degree requirements in the College for Professional Studies section of this *Catalog*.

Accounting/MSA Major Requirements

In addition to the requirements for the undergraduate accounting major listed previously, students in the Accounting/MSA Track also complete the requirements for an MSA found under MSA degree requirements in the College for Professional Studies section of this *Catalog*.

ACCOUNTING COURSE DESCRIPTIONS (AC)

AC 320A. PRINCIPLES OF ACCOUNTING I (3). Introduces basic accounting principles and procedures for sole proprietorship, partnerships, and corporations.

AC 320B. PRINCIPLES OF ACCOUNTING II (3). A continuation of AC 320A. Prerequisite(s): AC 320A.

AC 410A. INTERMEDIATE ACCOUNTING I (3). Provides an in-depth study of financial accounting including theory and problems. Discusses recent developments in accounting valuation and reporting practices promulgated by the leading accounting organizations. Emphasizes assets, liabilities, shareholders equity, income determination, preparation, and analysis of financial statements. Prerequisite(s): AC 320B.

AC 410B. INTERMEDIATE ACCOUNTING II (3). Provides an in-depth study of financial accounting topics, including theory and problems. Prerequisite(s): AC 410A.

AC 410C. INTERMEDIATE ACCOUNTING III (3). A continuation of AC 410A and 410B, going beyond preparation and analysis of financial statements. Focuses on accounting for pensions, accounting for leases, statement of cash flows, full disclosure of accounting transactions and reporting accounting information in light of changing price levels (inflation, deflation, replacement cost, fluctuating dollar, etc.) Prerequisite(s): AC 410B.

AC 420. ADVANCED ACCOUNTING (3). Accounting principles and procedures as applied to special areas including partnerships, corporate liquidations, estates and trusts, foreign currency accounting, segment accounting, installment sales and consignments and home office and branch operations. Prerequisite(s): AC 410C.

AC 440. COST ACCOUNTING (3). Provides an in-depth study of cost and management accounting procedures and techniques. Emphasize current topics from CPA examinations. Prerequisite(s): AC 320B.

AC 450A. INCOME TAX ACCOUNTING I (3). Studies income tax laws and regulations as they pertain to individuals, partnerships, corporations, estates and trusts. Prerequisite(s): AC 320B.

AC 450B. INCOME TAX ACCOUNTING II (3). A continuation of AC 450A. Prerequisite(s): AC 450A.

AC 460. GOVERNMENTAL AND NOT-FOR-PROFIT ACCOUNTING (3). Accounting principles and procedures as applied to governmental and nonprofit organizations, including hospitals, colleges and universities, and health and welfare organizations. Prerequisite(s): AC 320B.

AC 470. ACCOUNTING THEORY (3). Examines the conceptual, institutional and policy elements of accounting and major components of generally accepted accounting principles, conventions and practices. Integrates accounting theory, institutional dimensions of accounting, and their relationships with the financial reporting environment. Prerequisite(s): AC 410B.

AC 480. AUDITING PRINCIPLES AND PROCEDURES (3). Studies auditing principles and objectives in relationship to auditing standards and procedures. Prerequisite(s): Senior standing and completion of eighteen (18) semester hours of accounting.

AC 490E-W. INDEPENDENT STUDY IN ACCOUNTING (1-6). Offers opportunity for independent study in special topics of interest not covered in regularly offered courses under the direction of a faculty member. Prerequisite(s): Junior standing and approval of division director.

AC 495E. ETHICAL DECISION MAKING IN BUSINESS (3). Focuses on ethical problems that arise in the business setting. Emphasizes the individual decision maker in the entry-level position, as opposed to the managerial level. Studies the various philosophical and social/psychological decision systems that can be used to resolve ethical problems. Includes case studies, role playing and guest speakers from the business community. Prerequisite(s): BA 250 and Junior standing. Cross listing: BA 495E or EC 495E.

AC 498E-W. INTERNSHIP IN ACCOUNTING (3). Offers opportunity for faculty-directed field experience. Prerequisite(s): Approval of division director and director of Academic Internship Program. NOTE: See Division of Business Regulations.

ANTHROPOLOGY

Dr. Damla Isik, Assistant Professor

Dr. Damien Thompson, Assistant Professor

A major in Anthropology is not available.

Cultural Anthropology Minor	**15 SH**
Lower Division Requirements	*3 SH*
AN/SO 204--Introduction to Cultural Anthropology	3 SH
Upper Division Requirements	*12 SH*
AN/SO 404--Methods of Social Research	3 SH
Upper Division Anthropology Electives	9 SH

ANTHROPOLOGY COURSE DESCRIPTIONS (AN)

AN 204. INTRODUCTION TO CULTURAL ANTHROPOLOGY (3). Introduces the methods and theory of cultural anthropology through a theoretical and comparative examination of the role of human life. Includes the study of cultural practices such as language, myth, gender, marriage, and sexuality, and economic and political practices in different cultures of the world. Cross listing: SO 204.

AN 404. METHODS OF SOCIAL RESEARCH (3). Practical introduction to social science research methods including survey research, content analysis, participant observation, and field research. Builds critical thinking skills for comparing and evaluating popular and academic reports/claims, focusing on social problems and social justice. Research design, data analysis of both qualitative and quantitative data, library research, and writing skills are taught through hands-on experiences. Prerequisite(s): One 200-level Sociology or Anthropology course. Cross listing: PJ 408 and SO 404. NOTE: This is a writing intensive course.

AN 406. HISTORY OF ANTHROPOLOGICAL THEORY (3). Reviews the development of the central ideas that have shaped the emergence of anthropology as a science. The approach is critical and objective, with an emphasis on the evolution of the scope and limitations of modern theory. Prerequisite(s): SO 204 or AN 204, or permission of instructor. Cross listing: SO 406.

AN 407. PUBLIC ANTHROPOLOGY (3). Discusses anthropology's insights on culture and research techniques as means to analyze social, political, and economic problems and develop solutions. Focuses on the ways in which applied anthropology can analyze, inform, and influence policy in the United States and abroad, demonstrating anthropology's mainstream relevance. Prerequisite(s): SO 200 and SO 204 or AN 204, or permission of instructor. Cross listing: SO 407.

AN 411. FOOD, GENDER, AND CULTURE (3). Explores ways in which preparing, eating, and thinking about food reflects culturally determined gender and power relations in societies around the world. Prerequisite(s): One 200-level Sociology or Anthropology course, or any Women's and Gender Studies course.. Cross listing: SO 411 and WGS 411.

AN 412. FOOD JUSTICE(3). Explores our relationship with food through analysis of power, privilege, and culture. Learn ways to change the alienation, structural violence, and injustice experienced within dominant systems of food production and consumption. Prerequisite(s): SO 200 and SO 204 or AN 204, or permission of instructor. Cross listing: SO 412 and PJ 426.

AN 423. MEXICAN AMERICANS IN THE U.S. (3). Provides a general overview of Mexican Americans in the United States in contemporary society. Examines the history, culture, and past and present policies that have affected the community. Emphasizes racism, discrimination, prejudice, internal colonialism, split labor market theory, immigration, participation in social movements, and experiences with various social institutions such as the economy, politics, media, education, and the family. Prerequisite(s): SO 200 or SO 203 or permission of instructor. Cross listing: SO 423.

AN 426. RACE AND ETHNICITY IN LATIN AMERICA (3). Explores the multiple, complex and historically changing meanings of the concepts of race and ethnicity in Latin America, and the consequences of discrimination towards specific groups based on these concepts. Regions covered will be the Caribbean, Atlantic Central America, and the Pacific, Atlantic and Andean regions of South America. Salient issues will be covered for each region. Prerequisite(s): SO 200 or SO 204 or AN 204 or permission of instructor. Cross listing: SO 426.

AN 469E-W. TOPICS IN CULTURE (3). Analysis of origins, development, and changes/challenges of ancient and/or modern cultures. Prerequisite(s): SO 200 or AN 204 or permission of instructor. Cross listing: SO 469E-W.

AN 485. ANTHROPOLOGY OF RELIGION (3). Provides an anthropological examination of religious expression in past and present societies. Includes myth, ritual, shamanism, symbolism, and religious change. Prerequisite(s): SO 200 or SO 204 or AN 204 or permission of instructor. Cross listing: SO 485.

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ASTRONOMY

A major in Astronomy is not available.

ASTRONOMY COURSE DESCRIPTIONS (AS)

AS 250. PRINCIPLES OF ASTRONOMY (3). Provides an introductory survey of the universe for non-science majors. Topics can include study of the night sky, light and telescopes, the Sun, planets, stars, or cosmology. Co-requisite: AS 251. Prerequisite(s): MT 260 or equivalent or permission of instructor. Note: Designed for non-science majors to meet the Natural Science Core requirement when taken with AS 251.

AS 251. PRINCIPLES OF ASTRONOMY LABORATORY (1). Involves laboratory exercises accompanying and reinforcing lecture topics, including observations, computer simulations, and experimentation. May require field trips during or outside of class time. Co-requisite: AS 250. Prerequisite(s): MT 260 or equivalent or permission of instructor. Note: One three-hour evening laboratory each week required.

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BIOLOGY

Dr. Marie-dominique Franco, Associate Professor, Chairperson

Dr. Joan Betz, Professor

Dr. Michael Ghedotti, Professor

Dr. Catherine Kleier, Associate Professor

Dr. Jay Campisi, Assistant Professor

Dr. Kristi Penheiter, Assistant Professor

Dr. John Sakulich, Assistant Professor

Dr. Amy Schreier, Assistant Professor

Dr. Lara Shamieh, Assistant Professor

Dr, Melanie Badtke, Lecturer

The Biology Department offers two degrees, a Bachelor of Science and a Bachelor of Arts in Biology. An Honors-in-Biology option is available for the Bachelor of Science degree. An optional specialization in Molecular Biology and Genetic, and Ecology and Evolution is available for all Biology degrees.

The Bachelor of Science in Biology is designed to provide a broad knowledge of science including a strong background in Chemistry, Physics, and Biology. This degree is designed for those interested in pursuing advanced degrees in medicine, dentistry, veterinary science, or certain graduate programs in the natural sciences, as well as for those interested in biotechnology or various other biology-based careers.

The Honors-in-Biology option is designed to add a rigorous independent research component to the Bachelor of Science degree in Biology to better prepare students for graduate and professional schools or for research-oriented laboratory work.

The Bachelor of Arts in Biology is designed to allow flexibility while ensuring a strong background in Biology. The importance of biology in the modern world has made the combination of a strong background in biology with other fields of study a valuable endeavor. This degree is designed for those interested in pursuing advanced degrees in law, business, certain health science fields, or graduate programs outside of the natural sciences, as well for those generally interested in combining an understanding of biology with a study of fields outside of the natural sciences such as education or business. This program is particularly amenable to combination with another major or minor.

Bachelor of Science in Biology Major 64 SH

BL 260--Principles of Biology: Molecular and Cellular*	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic*	3 SH
BL 263--Organismic Biology Laboratory	1 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
CH 250--Organic Chemistry I	4 SH
CH 251--Organic Chemistry Laboratory I	1 SH
CH 420--Organic Chemistry II	3 SH
CH 421--Organic Chemistry Laboratory II	2 SH
MT 272/MT 272C--Statistics for the Life Sciences	3 SH

* May be taken in any sequence.

One of the following 8 semester hours options of physics:

- PH 202A--General Physics with Trigonometry I 3 SH
  PH 205A--General Physics with Trigonometry Laboratory I 1 SH
  PH 202B--General Physics with Trigonometry II 3 SH
  PH 205B--General Physics with Trigonometry Laboratory II 1 SH

- PH 304A--General Physics with Calculus I 3 SH
  PH 305A--General Physics with Calculus Laboratory I 1 SH
  PH 304B--General Physics with Calculus II 3 SH
  PH 305B--General Physics with Calculus Laboratory II 1 SH

A minimum of 25 upper division semester hours of biology which must include:

BL 402--Principles of Ecology	3 SH
BL 403--Ecology Laboratory	1 SH
BL 414--Principles of Genetics	3 SH
BL 415--Genetics Laboratory	1 SH
BL 494--Seminar in Biology, Society, and Ethics	1 SH
BL 495--Seminar in Biology Research Literature	1 SH
BL 496--Biology Research Colloquium	1 SH
Upper Division Biology Electives or completion of an optional specialization *	14 SH

* The upper division electives must include a minimum of one upper division laboratory course.

NOTE: Students interested in medical school, dental school, veterinary school or other graduate programs should consult those schools for additional requirements.

Honors-In-Biology Major 66 SH

Students completing the Honors-in-Biology option are required to complete the requirements listed for the Bachelor of Science in Biology major and the following courses; however, BL 491E-W also fulfills three semester hours of the upper division biology elective requirement for the Bachelor of Science in Biology major.

BL 491E-W--Undergraduate Research in Biology	3 SH
BL 499A--Senior Thesis I*	1 SH
BL 499B--Senior Thesis II*	1 SH

* Senior Thesis is graded on a Pass/No Pass basis.

Candidacy must be approved by the chairperson of the Department of Biology. The candidate must:

1. Select a thesis advisor and submit a preliminary thesis proposal.
2. Complete a long-term research project for Undergraduate Research in Biology credit over at least three semesters.
3. Complete Thesis I requirements which will include:
   a. Submitting a detailed thesis outline to the thesis advisor and Senior Thesis I instructor before the mid-semester break.
   b. Submitting a partial thesis draft including the literature review components and the Materials and Methods section(s) to the thesis advisor and Senior Thesis I instructor before the course withdrawal deadline.

4. Complete Senior Thesis II requirements by:
   a. Submitting a draft thesis to the thesis advisor before the mid-semester break.
   b. Submitting a final thesis (conforming to formatting guidelines provided by the Biology Department) for approval to an examination committee of three faculty (including the thesis advisor and at least two Regis Biology Department faculty) before the course withdrawal deadline.
5. Defending his/her thesis before the examination committee in a public forum followed by a discussion with the committee.

It is recommended that students apply for candidacy in the Honors-in-Biology program in their Sophomore year.

Bachelor of Arts in Biology Major 46 SH

BL 260--Principles of Biology: Molecular and Cellular*	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic*	3 SH
BL 263--Organismic Biology Laboratory	1 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
MT 272/MT 272C--Statistics for the Life Sciences	3 SH

* May be taken in any sequence.

A minimum of 25 upper division semester hours of biology which must include:

BL 402--Principles of Ecology	3 SH
BL 403--Ecology Laboratory	1 SH
BL 414--Principles of Genetics	3 SH
BL 415--Genetics Laboratory	1 SH
BL 494--Seminar in Biology, Society, and Ethics	1 SH
BL 495--Seminar in Biology Research Literature	1 SH
BL 496--Biology Research Colloquium	1 SH
Upper Division Biology Electives or Completion of an optional specialization*	14 SH

* The upper division electives must include a minimum of one upper division laboratory course.

NOTE: Students interested in secondary education, law school, physical therapy, graduate programs in business, programs in health science fields, or other graduate schools should consult those schools for additional requirements.

Specializations (Optional) 14-15 SH

A specialization is optional for either the B.S. in Biology or the B.A. in Biology and is a specified set of courses taken within the 14 semester hours of upper division biology electives for a biology major.

Ecology and Evolution *14 SH*

Students may complete this specialization with any Biology degree. Student completing this specialization must complete the following upper division biology course.

BL 464--Evolution	3 SH
Upper Division Biology General Electives	3 SH

Plus a minimum of eight semester hours selected from the following upper division biology courses, which must include at least one Laboratory:

BL 406--Human and Comparative Anatomy	3 SH
BL 407--Human and Comparative Anatomy Laboratory	1 SH
BL 410--Aquatic and Fisheries Ecology	3 SH
BL 428--Conservation Biology	3 SH
BL 435--Advanced Field Ecology Laboratory	2 SH
BL 436--Animal Physiology	3 SH
BL 448--Plant Diversity and Ecology	3 SH
BL 458--Animal Behavior and Behavioral Ecology	3 SH
BL 460--Forest and Landscape Ecology	3 SH
BL 462--Primate Ecology and Behavior	3 SH
BL 472--Plant Physiological Ecology	3 SH
BL 473--Plant Physiological Ecology Laboratory	1 SH
BL 476--Colorado Flora and Fauna	3 SH

Molecular Biology and Genetics *14 SH*

Students may complete this specialization with any Biology degree. Students completing this specialization must complete the following upper division biology courses:

BL 426--Molecular Biology	3 SH
BL 427--Molecular Biology Laboratory	1 SH
Upper Division Biology General Electives	3SH

Plus a minimum of seven semester hours selected from the following upper division biology courses:

BL 412--Developmental Biology	3 SH
BL 413--Developmental Biology laboratory	2 SH
BL 416--Molecular and Cellular Biochemistry	3 SH

BL 418--Microbiology	3 SH
BL 419--Microbiology Laboratory	1 SH
BL 424--Cell Biology	3 SH
BL 466--Immunology	3 SH
Biology Minor	**20 SH**
Lower Division Requirements	*8 SH*
BL 260--Principles of Biology: Molecular and Cellular*	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic*	3 SH
BL 263--Organismic Biology Laboratory	1 SH

* May be taken in any sequence.

Upper Division Requirements	*12 SH*

A minimum of 12 upper division semester hours of biology which must include one upper division course with accompanying laboratory.

BIOLOGY COURSE DESCRIPTIONS (BL)

BL 204E-W. TOPICS IN BIOLOGY (3). Introduces students to scientific inquiry in the context of a focused biological topic. Develops student knowledge of biological content and includes discussion of relevant societal and ethical issues. Topics have included Human Genetics, DNA and Biotechnology, and Animals and the Environment. NOTE: This course has been approved to satisfy the core natural science with laboratory requirement when taken with BL 205E-W. Co-requisite: BL 205E-W.

BL 205E-W. TOPICS IN BIOLOGY LABORATORY (1). Introduces students to scientific inquiry through participation. Involves exercises accompanying and reinforcing lecture content. NOTE: One three-hour laboratory per week. Co-requisite: BL 204E-W.

BL 208. BIOLOGICAL ANTHROPOLOGY (3). Introduces students to scientific inquiry in the context of human biological variation and evolution. Develops student knowledge of human genetics, human evolution, the fallacy of human biological races, and the fossil evidence of human evolution. NOTE: This course has been approved to satisfy the core natural science with laboratory requirement when taken with BL 209. Co-requisite: BL 209.

BL 209. BIOLOGICAL ANTHROPOLOGY LABORATORY (1). Introduces students to scientific inquiry through participation. Involves exercises accompanying and reinforcing lecture content. Emphasizes the skeletal system, with examples used to illustrate hypothesis testing and use of evidence in making inferences about human relationships. NOTE: One three-hour laboratory per week. Co-requisite: BL 208.

BL 216. HUMAN BIOLOGY (3). Introduces students to natural science in the context of the human organism. Develops student knowledge of the biology and bioethical issues associated with scientific understanding of human disease, genetics, and biotechnology. NOTE: This course has been approved to satisfy the core natural science with laboratory requirement when taken with BL 217. Does not fulfill requirements for pre-nursing or other pre-health programs. Co-requisite: BL 217.

BL 217. HUMAN BIOLOGY LABORATORY (1). Introduces students to scientific inquiry through participation. Involves exercises accompanying and reinforcing lecture content. NOTE: One three-hour laboratory per week. Co-requisite: BL 216.

BL 230. HUMAN BIOLOGY FOR HEALTH RELATED SCIENCES (3). Introduces students to basic human biology. As part of this introduction, it develops student knowledge of the basic terms and concepts central to understanding biomolecules, cell biology, genetics, immunology, cancer, and genetic medicine. NOTE: Designed specifically for pre-Nursing students. Does not fulfill the Natural Science Core requirement or requirements for other pre-Health programs, such as pre-Medicine, or Biology.

BL 254. INTRODUCTION TO MEDICAL MICROBIOLOGY (3). Surveys major groups of medically important pathogenic microorganisms, including viruses, bacteria, fungi, and protozoan's. Emphasizes microbiological principles, and introduces immunologic and epidemiologic concepts. Co-requisite: BL 255. Note: Designed specifically for pre-Nursing students. Does not fulfill the Natural Science Core requirement or requirements for other pre-Health programs, such as pre-Medicine, or Biology.

BL 255. INTRODUCTION TO MEDICAL MICROBIOLOGY LABORATORY (1). Involves laboratory experiments accompanying and reinforcing lecture topics. Co-requisite: BL 254. NOTE: One three-hour laboratory per week. Offered every spring semester.

BL 260. PRINCIPLES OF BIOLOGY: MOLECULAR AND CELLULAR (3). Introduces students to natural science, particularly the hypothesis testing and data analysis used in contemporary molecular and cellular biology. Develops student knowledge of the terms and concepts of cell biology, genetics and molecular biology. Highlights social and ethical issues. NOTE: Designed for Biology, Biochemistry, Environmental Studies, and Neuroscience majors, as well as for pre-medical, and other pre-health-science students. This course has been approved to satisfy the core natural science with laboratory requirement when taken with BL 261 or BL 261H. Offered every spring semester. Co-requisite: BL 261 or BL 261H.

BL 261. MOLECULAR AND CELLULAR BIOLOGY LABORATORY (1). Introduces students to scientific study design, primary literature, basic laboratory skills, data interpretation, and presentation of scientific results. Involves exercises reinforcing lecture content and includes work with recombinant DNA. NOTE: One three-hour laboratory per week. Offered every spring semester. Co-requisite: BL 260 except for students with AP high school credit for BL 260.

BL 261H. HONORS MOLECULAR AND CELLULAR BIOLOGY LABORATORY AND SEMINAR (2). Introduces students to scientific study design, primary literature, basic laboratory skills, data interpretation, and presentation of scientific results. Involves exercises reinforcing lecture content and includes work with recombinant DNA. Seminar readings explore topics in greater depth and link biological topic to broader academic themes. NOTE: Students with AP credit are not required to take BL 260 as a co-requisite. One three-hour laboratory and one seminar session per week. Honors students only or permission of instructor. Co-requisite: BL 260 except for students with AP high school credit for BL 260.

BL 262. PRINCIPLES OF BIOLOGY: ORGANISMIC (3). Introduces students to natural science, particularly the hypothesis testing and data analysis used in contemporary organismic biology. Develops student knowledge of the terms and concepts of ecology, evolution and biodiversity. Highlights social and ethical issues. NOTE: Designed for Biology, Biochemistry, Environmental Studies, and Neuroscience majors, as well as for pre-medical and other pre-health-science students. This course has been approved to satisfy the core natural science with laboratory requirement when taken with BL 263 or BL 263H. Offered every fall semester. Co-requisite: BL 263 or BL 263H.

BL 263. ORGANISMIC BIOLOGY LABORATORY (1). Introduces students to scientific study design, primary literature, basic laboratory skills, data interpretation, and presentation of scientific results. Involves exercises reinforcing lecture content. Includes dissection of representative organisms and fieldwork. NOTE: One three-hour laboratory per week. Co-requisite: BL 262 except for student with AP high school credit for BL 262.

BL 263H. HONORS ORGANISMIC BIOLOGY LABORATORY AND SEMINAR (2). Introduces students to scientific study design, primary literature, basic laboratory skills, data interpretation, and presentation of scientific results. Involves exercises reinforcing lecture content. Includes dissection of representative organisms and fieldwork. Seminar explores broader academic themes. NOTE: One three-hour laboratory and one seminar per week. Honors students only or permission of instructor. Co-requisite: BL 262 except for student with AP high school credit for BL 262.

BL 274. INTRODUCTION TO HUMAN ANATOMY (3). Provides a comprehensive introduction to human anatomy including the integumentary, skeletal, muscular, sensory, nervous, endocrine, digestive, respiratory, circulatory, urinary, and reproductive organ systems. Co-requisite(s): BL 275. Prerequisite(s): Sophomore standing. One natural science course recommended. NOTE: Required for students intending Nursing or Physical Therapy.

BL 275. HUMAN ANATOMY LABORATORY (1). Involves laboratory exercises accompanying and reinforcing lecture topics. Requires contact with human cadavers and skeletal materials. Co-requisite(s): BL 274. NOTE: Two one-and-a-half hour laboratories per week.

BL 276. INTRODUCTION TO HUMAN PHYSIOLOGY (3). Provides a comprehensive introduction to human physiology, including neurophysiology, endocrinology, muscular, cardiovascular, respiratory, renal, and gastrointestinal physiology. Co-requisite(s): BL 277. Prerequisite(s): High school chemistry or one semester of college chemistry or permission of instructor. NOTE: Required for students intending Nursing or Physical Therapy.

BL 277. HUMAN PHYSIOLOGY LABORATORY (1). Involves laboratory exercises accompanying and reinforcing lecture topics. Requires work with human and non-human vertebrate tissues and fluids. Co-requisite(s): BL 276. NOTE: One three-hour laboratory per week.

BL 391. BIOMEDICAL CLINICAL RESEARCH (2). Introduces biomedical clinical research for students interested in pursuing medicine or medical research. Develops knowledge of research design, error in research, and clinical biostatistics. Includes participation in ongoing clinical research in Denver-area hospitals. Prerequisite(s): BL 260, BL 262, CH 230, and MT 272 and Junior standing. NOTE: Held off campus and requires additional off-campus work outside of class.

BL 402. PRINCIPLES OF ECOLOGY (3). Explores the interactions of organisms in the context of their biotic and abiotic environments. Examines the basic models and principles used in evolutionary, behavioral, population, community, and ecosystem ecology. Co-requisite: BL 403. Prerequisite(s): BL 260 and BL 262 and MT 272. Cross listing: ENVS 402. NOTE: Required for all Biology majors.

BL 403. ECOLOGY LABORATORY (1). Involves research design and the collection, evaluation, and statistical analysis of ecological data in the laboratory and in the field. Co-requisite: BL 402. Prerequisite(s): BL 261 and BL 263 and MT 272. Cross listing: ENVS 403. NOTE: Required for all Biology majors.

BL 406. HUMAN AND COMPARATIVE ANATOMY (3). A rigorous organ-system-based course in human anatomy that also places human anatomical structure into its evolutionary and developmental context. Includes an overview of anatomical variation among vertebrates. Teaches anatomy as an active biological discipline. Co-requisite: BL 407. Prerequisite(s): BL 260 and BL 262. NOTE: Pre-Nursing and Pre-Physical Therapy students should take BL 274 to meet the requirements for these programs.

BL 407. HUMAN AND COMPARATIVE ANATOMY LABORATORY (1). Intensive laboratory course closely accompanying and reinforcing lecture content in human and comparative anatomy. Teaches anatomy as an active biological discipline. Includes work with skeletal and preserved specimens of humans and other vertebrates. Co-requisite: BL 406. Prerequisite(s): BL 261 and BL 263. NOTE: Pre-Nursing and Pre-Physical Therapy students should take BL 275.

BL 410. AQUATIC AND FISHERIES ECOLOGY (3). Develops student knowledge of the ecology of freshwater and marine systems, emphasizing aquatic conservation and use of aquatic resources. Identifies aquatic resource issues and applications of perspectives to develop an integrative position. Prerequisite(s): BL 260 and BL 262. Cross listing: ENVS 410. NOTE: Participation in one or two field trips outside of class time required.

BL 412. DEVELOPMENTAL BIOLOGY (3). Focuses on early development in a variety of model organisms and humans. Emphasizes modern approaches to explain molecular and genetic aspects of regulative and mosaic development, differential gene expression, and morphogenesis. Prerequisite(s): BL 260 and BL 262.

BL 413. DEVELOPMENTAL BIOLOGY LABORATORY (2). Involves laboratories accompanying and reinforcing lecture topics. Uses live model organisms and tissues to study developmental mechanisms. Prerequisite(s): BL 260, BL 261, BL 262, BL 263 and CH 230.

BL 414. PRINCIPLES OF GENETICS (3). Explores concepts of heredity, including the structure, replication, transmission, and expression of genes from the DNA of chromosomes. Interprets genetic phenomena at different levels of organization, including prokaryotic and eukaryotic systems. Prerequisites(s): BL 260 and BL 262. Co-Requisite: BL 415. NOTE: Required for all Biology majors.

BL 414H. HONORS GENETICS SEMINAR (1). Develops student understanding of the historic development, social context, and primary literature of genetics via discussion of readings in a seminar format. Prerequisite(s): BL 260 and BL 262. Co-requisite: BL 414. NOTE: Honors students only or permission of instructor.

BL 415. GENETICS LABORATORY (1). Involves research design and the collection, evaluation, and analysis of genetic data in computer simulations and in the laboratory. Prerequisite(s): BL 261 and BL 263. NOTE: Required for all Biology majors.

BL 416. MOLECULAR AND CELLULAR BIOCHEMISTRY (3). Develops student understanding of biomolecules in the context of cells and metabolic processes. Focuses on biological and biomedical relevance. Prerequisite(s): BL 260, BL 262 and CH 250.

BL 418. MICROBIOLOGY (3). Studies viruses, bacteria, archae, and eukaryotic microorganisms within a broad biological perspective. Includes the growth, metabolism, genetics, and ecology of microbes. Introduces concepts of immunology, epidemiology and discusses major infectious diseases caused by microorganisms. Co-requisite: BL 419. Prerequisite(s): BL 260, BL 262 and CH 210.

BL 419. MICROBIOLOGY LABORATORY (1). Involves laboratory experiments accompanying and reinforcing lecture topics. Co-requisite: BL 418. Prerequisite(s): BL 261 and BL 263.

BL 424. CELL BIOLOGY (3). Studies cell structure and function at the molecular level, with emphasis on eukaryotic cells. Topics include membranes and cell organelles, bioenergetics, cell cycle control, signal transduction; cell motility and shape; cell-cell interactions. Prerequisite(s): BL 260 and BL 262 and CH 250.

BL 426. MOLECULAR BIOLOGY (3). Develops student knowledge of genome structure, replication, expression and regulation in prokaryotes and eukaryotes. Generally introduces students to bioinformatics and biotechnology applications of molecular biology. Co-requisite: BL 427. Prerequisite(s): BL 260, BL 262 and CH 250.

BL 427. MOLECULAR BIOLOGY LABORATORY (1). Laboratory course emphasizing techniques of molecular biology using model organisms. Co-requisite: BL 426. Prerequisite(s): BL 261, BL 263 and CH 251.

BL 428. CONSERVATION BIOLOGY (3). Introduces the fundamental principles of conservation biology including patterns of global biological diversity, biogeography, population genetics, extinction, restoration ecology, management, and conservation policy. Prerequisite(s): BL 260 and BL 262. Cross listing: ENVS 428.

BL 435. ADVANCED FIELD ECOLOGY LABORATORY (2). Introduces students to methods of sampling and studying a variety of organisms in the field. Develops student ability to design, conduct, and appropriately interpret field ecological studies. Prerequisite(s): BL 403 or ENVS 403. Cross listing: ENVS 435.

BL 436. ANIMAL PHYSIOLOGY (3). An organ system based physiology course that explores the physical and chemical processes that operate in animals. Topics include movement, circulation, respiration, osmoregulation, digestion, neural control, hormonal control, and metabolism in humans and other animals. Prerequisite(s): BL 260, BL 262, and CH 210.

BL 448. PLANT DIVERSITY AND ECOLOGY (3). Surveys plant systematics and distributional aspects of plant community ecology. Emphasizes identification, classification, biogeography, and environmental effects on plant distribution and community structure. Focuses on the Colorado flora. Prerequisite(s): BL 260 and BL 262. Cross listing: ENVS 448. NOTE: One or two weekend field trips required.

BL 458. ANIMAL BEHAVIOR AND BEHAVIORAL ECOLOGY (3). Explores the mechanisms and functions of animal behavior with emphasis on the ecological and evolutionary bases of animal behavior. Some areas discussed include communication, reproductive behavior, and social behavior. Prerequisite(s): BL 260 and BL 262. Cross listing: ENVS 458.

BL 459. ANIMAL BEHAVIOR LABORATORY (1). Laboratory and field exercises accompany and reinforce lecture topics. Involves non-invasive work with live animals. Co-requisite: BL 458. Prerequisite(s): BL 260 and BL 262. Cross listing: ENVS 459.

BL 460. FOREST AND LANDSCAPE ECOLOGY (3). Investigates the unique ecological characteristics of forest ecosystems, surveys the diversity of world forests, and explores methods of analysis and management of forests at landscape scales. Prerequisite(s): BL 260, BL 262 and MT 272. Cross listing: ENVS 460. NOTE: May require participation in field trips outside of class time.

BL 462. PRIMATE ECOLOGY AND BEHAVIOR (3). Explores the ecology and evolution of primates in the context of their biotic and abiotic environments. Emphasizes primate life history, behavior, social organization and conservation ecology. Prerequisite(s): BL 260 and BL 262. Cross listing: ENVS 438. NOTE: May require participation in field trips outside of class time.

BL 464. EVOLUTION (3). Explores concepts of evolution as a process of discovery. Topics include biological diversity, classification and phylogeny, genetic and phenotypic variation, evolutionary forces, character evolution, species concepts, specialization, and human variation and evolution. Prerequisite(s): BL 260 and BL 262.

BL 466. IMMUNOLOGY (3). Explores the human immune system and immunopathology by presenting concepts of the activation and regulation of the immune response. Prerequisite(s): BL 260, BL 262 and CH 210. NOTE: May include field trips to research facilities.

BL 472. PLANT PHYSIOLOGICAL ECOLOGY (3). Explores the physiological responses of plants to their biotic and abiotic environments. Focuses on the physiological ecology of Colorado flora. Prerequisite(s): BL 260 and BL 262. One course in chemistry recommended. Co-requisite: BL 473. Cross listing: ENVS 472.

BL 473. PLANT PHYSIOLOGICAL ECOLOGY LABORATORY (1). Involves laboratories accompanying and reinforcing lecture topics. Prerequisite(s): BL 261 and BL 263. Co-requisite: BL 472. Cross listing: ENVS 473. NOTE: One or two field trips on weekends required.

BL 476. COLORADO FLORA AND FAUNA (3). Explores the range of ecological communities found in Colorado. Focuses on natural history and ecology of the plants, mammals, birds, reptiles, amphibians, fishes, and macroinvertebrates in Colorado. Prerequisite(s): BL 260 and BL 262. Cross listing: ENVS 476.

BL 481E-W. SPECIAL TOPICS IN BIOLOGY (1-4). Explores selected topics in the field of biology not normally covered in regular course offerings. Course format varies according to topics selected. Prerequisite(s): BL 260 and BL 262. NOTE: Certain topics may include a laboratory, which will require prerequisites of BL 261 and BL 263.

BL 485. FUNCTIONAL NEUROPHYSIOLOGY AND NEUROANATOMY (3). Explores the functional significance of neural physiology and connectivity, including effects related to neural development, how nerve cells communicate with one another, how patterns of neural interconnections give rise to different perceptual, cognitive, and motor responses, and how neural communication is modified by experience. Co-requisite: BL 486. Prerequisite(s): NS 260 and BL 260 and BL 262, or permission of instructor. Cross listing: NS 485 and PY 485.

BL 486. NEUROPHYSIOLOGY AND NEUROANATOMY LABORATORY (1). Involves laboratory experiments and computer simulation of neural functions as well as gross dissection, and histological study of Neuroanatomy. Co-requisite: BL 485. Cross listing: NS 486 and PY 486. NOTE: One three-hour laboratory per week.

BL 490E-W. INDEPENDENT STUDY IN BIOLOGY (1-3). Offers an opportunity for advanced study of independent topics in biology. Prerequisite(s): BL 260 and BL 262, permission of instructor and approval of department chair. NOTE: A maximum of 3 SH may be used to satisfy requirements for major or minor.

BL 491E-W. UNDERGRADUATE RESEARCH IN BIOLOGY (1). Offers an opportunity for laboratory or field research under faculty direction. Requires oral or poster presentation. Prerequisite(s): BL 260, BL 261, BL 262, BL 263, Sophomore standing or permission of instructor. NOTE: Requires a time commitment of approximately 4-8 hours per week. Does not satisfy the upper division laboratory requirements for any major or minor.

BL 494. SEMINAR IN BIOLOGY, SOCIETY, AND ETHICS (1). Surveys ethical controversies directly relevant to biology. Helps students develop their own coherent and informed positions on these controversies. Prerequisite(s): BL 260 and BL 262. Junior standing. NOTE: Required for all Biology majors.

BL 495. SEMINAR IN BIOLOGY RESEARCH LITERATURE (1). Explores the most current discoveries in biology. Emphasizes reading, interpretation, and presentation of articles from the primary scientific literature, covering a broad range of biological topics. Includes resume and cover letter construction. Prerequisite(s): BL 260 and BL 262, Junior standing. NOTE: Required for all Biology majors.

BL 496. BIOLOGY RESEARCH COLLOQUIUM (1). Explores biology as a dynamic discipline via research seminar attendance and reading associated scientific literature. Covers a broad range of biological topics. Includes a discussion of research design. Prerequisite(s): BL 260 and BL 262, Junior standing. NOTE: Required for all Biology majors, and requires attendance at the Department of Biology seminar series outside of class time.

BL 498E-W. INTERNSHIP IN BIOLOGY (3). Provides faculty-directed practical experience in a biology-related working environment outside of Regis University. Requires oral presentation to department at conclusion of semester. Prerequisite(s): BL 260 and BL 262, Junior standing, permission of instructor and approval of department chair and director of Academic Internship Program. NOTE: Credit may not be counted to fulfill the minimum upper division semester hour requirement for a Bachelor of Science in Biology or a biology minor.

BL 499A. SENIOR THESIS I (1). Involves the first steps in writing an Honors-in-Biology thesis based on independent research. Prerequisite(s): BL 491E-W. Senior standing and approval of department chair. Pass/No Pass grading only.

BL 499B. SENIOR THESIS II (1). Involves completion of the Honors-in-Biology thesis and an oral defense of the thesis. Prerequisite(s): BL 499A. Senior standing and approval of department chair. Pass/No Pass grading only.

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BUSINESS ADMINISTRATION

Mr. Matthew Daly, Associate Professor, Chairperson

Dr. Susan Jacobson, Associate Professor

Dr. Meg Thams, Associate Professor

Dr. Aimee Wheaton, Associate Professor

Dr. David Bauman, Assistant Professor

Dr. Maria Quijada, Assistant Professor

MISSION STATEMENT

The Division of Business provides business education within a traditional college experience, emphasizing analytical models, technical systems, and contemporary competencies. Within a moral, ethical, and intellectual framework, students pursue an understanding of the changing world of business and economic systems in the global business community.

The faculty is committed to personal and professional integrity and competence in the service of others. In this way students are challenged to academic accountability and excellence. The division's purpose is to graduate students prepared for careers as competent professionals and good citizens who answer for themselves, "How ought we to live?"

DIVISION OF BUSINESS REGULATIONS

1. A student must have a grade point average of 3.000 or greater to enroll in an Independent Studies course or Special Studies course. Any deviation from the above minimum grade point requirement needs approval of the division director upon recommendation of the student's advisor.
2. A student must have a grade point average of 2.500 or greater and be of junior or senior standing to enroll in BA 498E-W--Internship in Business. No more than one internship may be taken each semester. Any deviation from these requirements needs approval of the division director upon recommendation of the student's advisor.
3. Students who major or minor in Business Administration may not use credit earned in Internship courses to fulfill major/minor requirements for the degree. However, all students are strongly encouraged to complete an internship or to obtain equivalent work experience before graduation.

Business Administration Major 51-52 SH

Lower Division Requirements *24-25 SH*

AC 320A--Principles of Accounting I 3 SH

AC 320B--Principles of Accounting II 3 SH

EC 320--Principles of Macroeconomics 3 SH

EC 330--Principles of Microeconomics 3 SH

BA 250--Introduction to Business 3 SH

BA 282--Introduction to Information Systems Concepts 3 SH

MT 270/MT 270C--Introduction to Statistics 3 SH

MT 340--Quantitative Methods
or
MT 360A--Calculus I
or
MT 370--Intermediate Statistics
or
EC 425--Econometrics 3-4 SH

Upper Division Requirements *27 SH*

Eighteen upper division semester hours of Business Administration courses, which must include:

BA 420--Marketing 3 SH

BA 430--Business Finance 3 SH

BA 461--Management 3 SH

BA 475--Business Policy and Strategy 3 SH

BA 481A--Business Law I 3 SH

BA 495E--Ethical Decision Making in Business 3 SH

Electives 9 SH

Plus nine upper division elective semester hours in an area of specialization selected from the following:

- Marketing
- Finance
- Management
- International Business
- Management Information Systems - Upper division business administration and computer science courses selected in consultation with the major advisor.
- General Business - Upper division business administration courses selected in consultation with the major advisor.

NOTE: BA 498E-W cannot be used to fulfill major requirements.

Business Administration Minor 15 SH

Lower Division Requirements *3 SH*

BA 250--Introduction to Business 3 SH

Upper Division Requirements *12 SH*

Twelve semester hours in an area of specialization selected from the following:

- Marketing 12 SH
  - BA 420--Marketing 3 SH
  - Upper division marketing electives 9 SH
- Finance 12 SH
  - BA 430--Business Finance 3 SH
  - Upper division finance electives 9 SH
- Management 12 SH
  - BA 461--Management 3 SH
  - Upper division management electives 9 SH
- International Business 12 SH
  - Three semester hours selected from the following:
  - BA 420--Marketing 3 SH
  - BA 430--Business Finance 3 SH
  - BA 461--Management 3 SH
  - BA 475--Business Policy and Strategy 3 SH
  - BA 481A--Business Law I 3 SH
  - BA 495E--Ethical Decision Making in Business 3 SH
  - Plus nine semester hours selected from upper division international business electives.
- General Business 12 SH
  - Twelve semester hours selected from upper division Business Administration courses in consultation with the major advisor.

NOTE: BA 498E-W cannot be used to fulfill minor requirements.

BUSINESS ADMINISTRATION COURSE DESCRIPTIONS (BA)

BA 250. INTRODUCTION TO BUSINESS (3). Explores the contemporary business environment by introducing fundamental business concepts including ethics, international business, management, marketing, and finance. Provides a solid foundation for future business courses and will assist in understanding current business activities.

BA 282. INTRODUCTION TO INFORMATION SYSTEMS CONCEPTS (3). Introduces information systems concepts, architectures, and technologies emphasizing information system resources needed to meet organizational mission and objectives. Focuses on information systems from the business viewpoint including processes, value proposition, and different types of information systems. Presents key areas of networking, databases, and software applications to provide an overall information systems background. Explores research, case studies, and different information system applications to gain familiarity with the foundational concepts of information systems. Cross listing: CS 282.

BA 311. BUSINESS AND PROFESSIONAL COMMUNICATION (3). Introduction to basic skills, principles and contexts of communication in business and professional settings. Focuses on organization, adaptation and delivery of presentations for many types of business and professional settings. Prerequisite(s): COM 380 or permission of instructor. Cross listing: COM 311.

BA 402. BUSINESS CYCLES AND FORECASTING (3). Examines theoretical explanations of economics growth in advanced industrial economic systems and the causes of cyclical deviations from the growth trend. Covers forecasting national income and national product aggregates and emphasizes the use of forecasting techniques. Prerequisite(s): EC 320 and EC 330. Cross listing: EC 460.

BA 403. INTERNET MARKETING (3). Introduces and develops marketing concepts for the Internet, using effective theory and practical business techniques. Examines Internet related languages and applications software. Prerequisite(s): BA 250 and Junior standing.

BA 407. LEADERSHIP PRINCIPLES (3). Examines evolution of leadership from a theoretical perspective with a focus on contemporary leadership. Topics include: management versus leadership, gender differences, power and social influence, ethics and values, culture and the key communication competencies of leadership. Requires students to evaluate and enhance personal leadership skills and develop a personal model of leadership. Prerequisite(s): BA 461.

BA 413. INTERNET MANAGEMENT (3). Focuses on managing Internet resources and information systems project management. Introduces prevalent web related languages such as HTML, Java Script, and XML. Prerequisite(s): BA 250 and Junior standing.

BA 414. DIVERSITY IN THE WORKFORCE (3). Examines changing roles of African Americans, Latinos, Asian Americans, physically disabled, and elderly. Focuses on the internationalization of the workforce with respect to peace and justice. Provides an extended case application of theories of organizational behavior and change with an eye on globalization. Prerequisite(s): BA 461 and Junior standing. Cross listing: PJ 414.

BA 415. CORPORATE INSURANCE AND RISK (3). Examines ways in which insurance can be used by firms in creative, new ways to limit financial risk for small and large corporations. Brings a financial orientation to traditional insurance instruments in creating ways to protect shareholders against claims for errors or mismanagement by directors and officers. Prerequisite(s): BA 430.

BA 416. PUBLIC RELATIONS (3). Studies the history, purpose and processes of public relations. Examines public relations tools and practices, ranging from preparing and conducting a public relations program, setting up a news conference, establishing and running a speaker bureau, designing and producing a brochure and editing an employee newsletter. Prerequisite(s): BA 420 for business students only. Cross listing: COM 416.

BA 418. ORGANIZATIONAL COMMUNICATION (3). Surveys contemporary organizational communication theories and practices. Investigates issues such as diversity, participation, technology, corporate ethics, the environment, and globalization. Focuses on analyzing and critiquing current organizational practices and assumptions, with an aim toward increasing social justice and ethics. Prerequisite(s): COM 380 and Junior standing. Cross listing: COM 418 and PJ 423.

BA 420. MARKETING (3). Studies the macro and micro marketing systems and institutions, domestically and internationally. Includes marketing's role in the global economy and marketing in the United States emphasizing the development of marketing strategies and marketing mixes. Prerequisite(s): BA 250 and Junior standing.

BA 421. MARKETING AND MANAGEMENT POLICIES (3). Analyzes the use and impact of marketing procedures such as marketing research, non-price competition, price competition, advertising, selling policies and choice of a channel of distribution. Prerequisite(s): BA 420.

BA 423. MARKETING RESEARCH (3). Familiarizes student with the basic objectives, techniques, and applications of market research used in a modern business environment. Develops proficiency in the research process, building upon and applying knowledge of statistics to modern market research problems. Prerequisite(s): BA 250, BA 420, MT 270 and Junior standing.

BA 425. CONSUMER BEHAVIOR (3). Analyzes the factors that influence consumer behavior and use this knowledge to develop sound marketing strategies for goods and services. Prerequisite(s): BA 420.

BA 427. INTRODUCTION TO ENTREPRENEURSHIP (3). Introduces entrepreneurship and the entrepreneurial process. Explores how the functional areas of business are applied to new ventures. Examines the role entrepreneurship plays in fulfilling their professional aspirations. Prerequisite(s): BA 461.

BA 428. INTERNATIONAL MARKETING (3). Examines the scope and challenge of marketing goods and services in foreign countries; and the cultural, legal, political, geographic, technological, and economic influences on international marketing. Includes establishing markets, market research, distribution channels, export processes, and marketing strategies. Prerequisite(s): BA 420 and Junior standing.

BA 430. BUSINESS FINANCE (3). Introduces major topics in managerial finance essential for understanding how financial managers acquire and manage a firm's assets and how they finance these assets through debt and equity sources. Prerequisite(s): BA 282, BA 250, AC 320A and AC 320B and Junior standing.

BA 433. MONEY AND BANKING (3). Studies the nature and functions of money and credit, including an understanding of the variety and growth of banking functions and the influence on banks of Federal Reserve operations. Examines the relationships among money, interest rates, business investment needs, government borrowing, and the gross national product. Prerequisite(s): EC 320, EC 330 and either BA 430 or EC 410. Cross listing: EC 420.

BA 434. SALES (3). Provides an in-depth understanding of the sales process. Focuses on individual salesperson and sales management perspectives. Includes an appreciation of the individual selling function, types of selling (direct, telemarketing, mail, business-to-business, and retail). Prerequisite(s): BA 250, BA 420 and Junior standing.

BA 435. FUNDAMENTALS OF INVESTMENTS (3). Studies the relationship between risk and return in the management of investment portfolios, including the analysis of stocks, bonds and other securities. Prerequisite(s): BA 282, BA 430, AC 320A and AC 320B.

BA 436. MARKETING THROUGH SPORTS AND ENTERTAINMENT EVENTS (3). Provides an introduction to a specialized topic in marketing and explores the unique aspects of the business of sport. Focuses on the use of sport and events as a marketing vehicle to achieve strategic marketing goals. Examines specific topics of fan behavior, sponsorship, sales promotion, licensing, and law as they apply to sports and entertainment events. Prerequisite(s): BA 420, Junior standing, or permission of instructor.

BA 438. INTERNATIONAL FINANCE (3). Presents the economic issues of international finance, including the history in International Finance, fixed and flexible exchange rates, and international agencies that help stabilize international financial markets. Examines issues faced by financial managers of multinational firms. Prerequisite(s): EC 320, EC 330, BA 430 and Junior standing. Cross listing: EC 483.

BA 440. LABOR RELATIONS AND ECONOMICS (3). Examines unemployment, emphasizing its causes and possible cures. Prerequisite(s): EC 320 and EC 330. Cross listing: EC 440.

BA 442. PERSONAL FINANCIAL MANAGEMENT (3). Examines the field of personal financial management and planning. Includes setting financial goals and planning for education, retirement, estates and insurance, and the tax effects of different financial choices. Explores the role of the professional financial planner in helping individuals to make financial decisions. Prerequisite(s): BA 250 and junior standing.

BA 444. ECONOMICS OF POVERTY AND INEQUALITY (3). Examines poverty, inequality, and discrimination in an economic context and explores the effectiveness of government policies designed to address associated inequalities. Consideration is given to the wealth gap, wage disparities, and capital access both within countries and between countries. Prerequisite(s): EC 320 and EC 330 or permission of instructor. Cross listing: EC 444, PJ 444 and WGS 444.

BA 445. EMPLOYMENT LAW AND POLICY (3). Surveys the impact of state and federal employment laws on the organization. Examines both the history of and resistance to focus--not legal focus per se. Provides a chronicle examination of the laws that were passed, and the resistance to the legislation. Explores what was happening in the community that made the laws necessary, what values are reflected in the law, and whether the law is adequate to balance the needs of the employer and employee. Prerequisite(s): BA 250 and BA 461, Junior standing required. Cross listing: PJ 445 and WGS 445.

BA 452. MANAGEMENT OF HUMAN RESOURCES (3). Examines the nature and challenge of personnel management from mechanics to social responsibility, the organization of a work force and the development and management of human resources. Studies creating a favorable work environment, including management and labor relations, remuneration, and security for employees. Prerequisite(s): BA 461.

BA 454. ORGANIZATIONAL BEHAVIOR (3). Emphasizes organizational environment and behavior concepts. Focuses on human resources and system ideas, motivating employees, job satisfaction, leadership, managing change, communication and group processes, employee counseling, interpersonal, and group dynamics. Prerequisite(s): BA 461.

BA 458. PROJECT MANAGEMENT (3). Identifies tools and processes of project management with emphasis on organizational structures and resources for successful management. Includes tools and techniques for project planning, staffing, and budgeting.

BA 461. MANAGEMENT (3). Provides comprehensive coverage of managerial principles applicable to numerous activities through a study of the fundamental functions of management. Studies recent developments and their effect upon management and management techniques. Prerequisite(s): BA 250 and Junior standing.

BA 462. MANAGING SMALL BUSINESS (3). Emphasizes fundamental factors concerned with the establishment and competent operation of small business, including financing and sources of funds; organizing the business and establishment of policies; factors in business success; and the future outlook of small business. Prerequisite(s): BA 461.

BA 463. ISSUES IN MANAGEMENT (3). Provides an overview of new developments in management, emphasizing interdisciplinary influences on organizational theory. Includes new paradigms, organizational culture, changing gender roles, organizational change, and renewal. Prerequisite(s): BA 461.

BA 464. SERVICES MARKETING (3). As the U.S. economy changes to services economy, it is important for students to understand the nuances between marketing products and marketing services. Course concentrates on identifying difficulties in developing marketing plans and strategies in the service environment. Prerequisite(s): BA 420.

BA 468. INTERNATIONAL BUSINESS (3). Explores scopes and challenges of doing business, including marketing goods and services in foreign markets. Addresses cultural, legal, political, geographic, technological and economic (standard of living) influence management, organizational and marketing practice. Examines the establishment of markets, research, distribution channels export processes. Prerequisite(s): BA 250 and Junior standing.

BA 469. INTERNATIONAL MANAGEMENT (3). Studies the history and evolution of international business, the international environment, and the development, organization, and structure of the international organization. Includes cultural differences and business-governmental relations. Prerequisite(s): BA 461.

BA 472. ECONOMIC DEVELOPMENT IN THE THIRD AND FOURTH WORLDS (3). Studies various models/theories of economic development that traces a history of underdevelopment in the third and fourth worlds. Investigates the various barriers and problem areas in developing countries. Assesses possibilities, prospects, and policies of the future. Prerequisite(s): EC 320. Cross listing: EC 470, ENVS 470, and PJ 470.

BA 475. BUSINESS POLICY AND STRATEGY (3). This capstone course for Business Administration majors, addresses the business firm in its totality as a functioning entity in its environment, both global and local. Analyzes actual policies and strategies of existing firms. Prerequisite(s): BA 420, BA 430, BA 461, and Senior standing.

BA 481A. BUSINESS LAW I (3). Explores the foundations of law. Studies the fundamentals of contract law as applied in sales and employment contexts as well as agency law. Prerequisite(s): BA 250 and Junior standing.

BA 481B. BUSINESS LAW II (3). Studies law applicable to commercial paper, security devices, partnerships, corporations, real property, estates, and bankruptcy. Prerequisite(s): BA 481A.

BA 482. VALUES-CENTERED MANAGEMENT (3). Examines the nature and meaning of work from a historical perspective and traces work traditions through industrial past. Focuses on current work environments, including issues of work/life balance, spirituality and global developments. Cross listing: CAS 460H.

BA 483. VALUES-CENTERED MARKETING (3). Examines the role and responsibility of market professionals in society today. Explores topics such as consumerism, materialism, ethical and just treatment of disadvantaged groups, and translating social justice discussion into practical, real-world applications. Focuses on both the responsibility of individuals within the profession and the profession as a whole to our community. Prerequisite(s): BA 250, BA 420 and junior standing. Cross listing: CAS 460I.

BA 484. VALUES-FOCUSED PUBLIC POLICY (3). Examines the policies and procedures utilized by government to improve economic performance. Explores the role that individual and community worldviews and commitments to justice have in defining appropriate state and federal regulatory action, with particular attention to the Catholic worldview and Catholic Social Thought. Areas of study include anti-trust, consumer protection, employment law, and environmental law. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 484, PJ 484, and CAS 460G.

BA 486. PUBLIC FINANCE (3). Examines the basic principles of public finance. Considers why there may be a role for government in the economy, what that role might be, and how government might most efficiently fulfill the tasks assigned it. Topics include efficiency and equity aspects of taxation and redistributive programs, private and public solutions to problems of externalities and public goods, government provision of health care and social insurance programs, as well as budgeting and public debt. Prerequisite(s): EC 320, EC 330 and either BA 430 or EC 410. Cross listing: EC 486.

BA 490E-W. INDEPENDENT STUDY IN BUSINESS (1-6). Enables students to pursue special topics of interest not covered in regularly offered courses. Developed under the direction of a faculty member. Regis College Prerequisite(s): Junior standing and approval of division director.

BA 494. INTERNATIONAL ECONOMICS (3). Examines the theoretical underpinnings of international economics. Emphasizes international trade theory, trade policy, exchange rate determination, factor movements, underdevelopment, balance of payments, national income, the international financial system and institutions and regional trading blocks. Prerequisite(s): EC 320, EC 330 and either EC 410 or EC 411. Cross listing: EC 481.

BA 494E-W SEMINAR IN INTERNATIONAL BUSINESS (3). Analyzes trends and issues in international business of current significance. Topics vary with each offering. Prerequisite(s): BA 250 and Junior standing.

BA 495E. ETHICAL DECISION MAKING IN BUSINESS (3). Focuses on ethical problems, which arise in the business setting. Emphasizes the individual decision maker in the entry-level position, as opposed to the managerial level. Studies the various philosophical and social/psychological decision systems that can be used to resolve ethical problems. Includes case studies, role playing and guest speakers from the business community. Prerequisite(s): BA 250 and Junior standing. Cross listing: AC 495E or EC 495E.

BA 498E-W. INTERNSHIP IN BUSINESS (3). Provides faculty-directed field experience. Prerequisite(s): Approval of division director and director of Academic Internship Program. NOTE: See Regis College, Division of Business Regulations.

FINANCE (FIN)

FIN 416. FINANCIAL ANALYSIS AND SECURITY VALUATION (3). Financial statements provide information for managers, investors, and creditors. Introduces the skills necessary to understand and analyze financial statements and apply these skills in order to determine the value of a firm and its underlying securities. Prerequisite(s): BA 430 and Junior standing.

MARKETING (MKT)

MKT 432. ADVERTISING THEORY AND PRACTICE (3). Studies advertising and promotional aspects of marketing in depth. Integrates theory with practical planning, management and strategy issues. Prerequisite(s): COM 380. BA 420 for business students only. Cross listing: BA 432.

MKT 460. INTEGRATED MARKETING COMMUNICATIONS (3). Introduces the concept of Integrated Marketing Communications (IMC), a promotions/communications approach integrating PR, Direct Marketing, and Promotions, and used by numerous marketing communications professionals. Expresses brand values, identifies the unique selling proposition, and creates consistent marketing themes/messages communicated through various media and customer touch points. Coordinates resources to be in alignment for the development and implementation of an IMC campaign. Prerequisite(s): BA 250, BA 420 and Junior Standing.

CATHOLIC STUDIES

Dr. Randolph Lumpp, Program Director

Dr. Thomas Leininger, Professor

A major in Catholic Studies is not available.

The Catholic Studies Program seeks to develop interdisciplinary understanding of the Catholic Christian tradition in relation to human culture. The courses examine historical and/or contemporary relationships between Catholic tradition and intellectual thought, society, politics, morality, spirituality, economics, science, media, literature, the arts, and other dimensions of culture.

Catholic Studies Minor	**15 SH**
Lower Division Requirements	*3 SH*
CAS 300E-W--Foundations of Catholic Traditions	3 SH
Upper Division Requirements	*12 SH*

Twelve upper division semester hours of Catholic Studies courses selected with the approval of the major advisor.

CATHOLIC STUDIES COURSE DESCRIPTIONS (CAS)

CAS 300E-W. FOUNDATIONS OF CATHOLIC TRADITION (3). An interdisciplinary overview of the sources and contributions of the Catholic religious tradition. Investigates historical roots and cultural adaptations from its beginning to today's global setting. Topics might include developments in philosophy, theology, literature, the arts as well as the influence of political and social thought and institutions.

CAS 308. CATHOLIC CHRISTIANITY (3). An interdisciplinary investigation of the foundational sources of Catholic Christianity emphasizing historical development of the tradition and academic approaches to expressions of that development such as biblical literature, sacramental and liturgical practice, official church teachings (especially Vatican Council II), and Christian mission in the modern world. Prerequisite(s): RT 201/201C. Cross Listing: RT 308.

CAS 400E-W. THE CATHOLIC INTELLECTUAL TRADITION (3). Explores significant contributors to Catholic intellectual tradition as well as of the basic issues that have determined that tradition: the role of faith and reason, the place of culture in Christian evangelization, spirituality, and autobiography. Emphasizes the study of primary texts. Prerequisite(s): RT 201.

CAS 410E-W. THE ARTS IN CATHOLIC TRADITION (3). Explores the relationship between Catholic tradition and the fine arts and the role of the arts in expressing and enriching the life of faith. Focuses on the relationship between the sacred and the beautiful, the history of Christian iconography, or specific media of expression (e.g., performing, visual arts, liturgical arts). Examines the spiritual power of the aesthetic experience. Prerequisite(s): RT 201.

CAS 412. CATHOLIC LIFE AND THOUGHT (3). An exploration of post-Vatican Council II Catholic Christian belief and practice with emphasis on the foundations, historical forms and resources of the tradition and its development. Special attention will be given to topics of interest to adults. Prerequisite(s): RT 201. Cross listing: RS 412.

CAS 420E-W. CATHOLIC TRADITION IN SOCIETY AND CULTURE (3). Explores the relationship between Catholic thought and practice and social or cultural phenomena in various cultures or time periods. The approach can be from different disciplines such as sociology, anthropology, media studies, and history. Prerequisite(s): RT 201.

CAS 430E-W. CATHOLIC TRADITION AND NATURAL SCIENCE (3). Explores Catholic thought on the natural sciences. Addresses such topics as the theory of evolution, the role of Greek philosophy and science in the development of Catholic thought, the impact of Catholic thinkers on the history of science, controversies between the Church and the sciences, moral issues arising from technological development. Prerequisite(s): RT 201.

CAS 440E-W. CATHOLIC RELIGIOUS AND SPIRITUAL TRADITIONS (3). Explores Catholic Christian spiritual experiences and practices focusing on particular contributors (e.g., Benedict, Ignatius Loyola, Teresa of Avila), or particular forms of spiritual practice (e.g., mystical, monastic, Ignatian) or particular spiritual disciplines (e.g., contemplation, activism, liturgical). Prerequisite(s): RT 201.

CAS 443. ECONOMIC POLICY, JUSTICE AND THE COMMON GOOD(3). Uses readings in economics, philosophy and Catholic social teaching to evaluate economic theory and economic policies that address social ills (e.g., poverty, unequal income distribution, unequal access to health care.) Prerequisite(s): EC 200 or EC 320 or EC 330. Cross listing: EC 443 and PJ 478.

CAS 450E-W. HISTORICAL THEMES IN CATHOLIC TRADITION (3). Studies historical themes, figures, movements or periods that shaped or were shaped by Catholic thought or practice. Prerequisite(s): RT 201.

CAS 460E-W. PEACE AND JUSTICE IN CATHOLIC TRADITION (3). Studies the sources and influence of Catholic social teaching. Focus may include themes (e.g., liberation, peace activism, church-state relations, political freedom), figures who have enacted Catholic teaching (e.g., Francis of Assisi, Dorothy Day), or issues (e.g., economic justice, military services, international aid). Examines biblical, papal, conciliar, and theological documents. Prerequisite(s): RT 201.

CAS 490E-W. INDEPENDENT STUDY IN CATHOLIC STUDIES (3). Provides focused research on a topic in Catholic Studies not covered in regular course offerings. NOTE: Specific assignments and meeting times are arranged with the instructor. Approval of program director required.

CAS 498E-W. CATHOLIC STUDIES INTERNSHIP (3). Offers an opportunity to explore Catholic Studies in its practical application to various working areas of contemporary Catholicism. Requires students to reflect critically and constructively on the experience. Prerequisite(s): CAS 300. Approval of program director required.

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CHEMISTRY

Dr. Kimberley Waldron, Professor, Chairperson

Dr. Surendra Mahapatro, Professor

Dr. John Jean, Associate Professor

Dr. Kateri Ahrendt, Assistant Professor

Dr. Stacy Chamberlin, Assistant Professor

Dr. Christine Tong, Assistant Professor

DEPARTMENTAL INFORMATION

The Department of Chemistry offers two majors: Chemistry and Biochemistry. Both majors also include an honors track: ACS-approved Chemistry and ACS-approved Biochemistry. The curriculum in both majors follows the guidelines recommended by the American Chemical Society (ACS).

The traditional Chemistry major is designed for the liberal arts student who seeks an appreciation of chemistry but does not intend to pursue advanced studies or employment in the field. This track has a 19 upper division hour requirement. There are also 15 hours of lower division chemistry prerequisites for this major, in addition to eight hours of lower division physics and up to eight hours of calculus.

The ACS-approved Chemistry major is designed for students planning to enter graduate or professional school and/or professional employment in the chemical industry. This track has a 25 upper division hour requirement and follows the curriculum guidelines established by the American Chemical Society (ACS). This program includes a capstone research experience (CH 499E-W) as part of the requirements. There are also 15 hours of lower division chemistry prerequisites for this major, in addition to eight hours of lower division physics and up to eight hours of calculus.

The major in Biochemistry is designed for students who are interested in this sub-discipline of chemistry and would like to combine their biochemistry degree with either a minor or major in biology. A minor in biology is a requirement for the Bachelor of Arts in Biochemistry. This degree program is designed to prepare students for graduate or medical school and for employment in the biotechnology industry. This degree program requires 21 upper division hours in chemistry and 12 upper division hours in biology. This program follows the curriculum guidelines recommended by the American Society for Biochemistry and Molecular Biology (ASBMB). There are also 15 hours of lower division chemistry prerequisites for this major, in addition to eight hours of lower division physics, eight hours of lower division biology, and up to eight hours of calculus.

The ACS-approved Biochemistry major follows the guidelines established by the American Chemical Society (ACS) in addition to the ASBMB. This degree program requires 25 upper division hours in chemistry and 12 upper division hours in biology. This program includes a capstone research experience (CH 499E-W) as part of the requirements. There are 15 hours of lower division chemistry prerequisites for this major, in addition to eight hours of lower division physics, eight hours of lower division biology, and up to eight hours of calculus.

The minimum passing grade for any course taken towards satisfying the Chemistry or Biochemistry major is a "C-" This standard applies to all lower and upper division chemistry courses and all other courses required for the major. Also, a grade of "C-" or better is required in all prerequisite courses in order to enroll in subsequent courses.

Bachelor of Science in Chemistry — 50 SH

Lower Division Requirements — *31 SH*

CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
CH 250--Organic Chemistry I	4 SH
CH 251--Organic Chemistry Laboratory I	1 SH
MT 360A--Calculus I*	4 SH
MT 360B--Calculus II*	4 SH
PH 304A--General Physics with Calculus I	3 SH
PH 305A--General Physics with Calculus Laboratory I	1 SH
PH 304B--General Physics with Calculus II	3 SH
PH 305B--General Physics with Calculus Laboratory II	1 SH

* Prerequisite may be required depending upon mathematics placement.

Upper Division Requirements — *19 SH*

Nineteen upper division semester hours of Chemistry courses, which must include:

CH 420--Organic Chemistry II	3 SH
CH 421--Organic Chemistry Laboratory II	2 SH
CH 424--Analytical Chemistry	3 SH
CH 426--Quantitative Analytical Laboratory	2 SH
CH 428--Synthesis and Characterization Laboratory or CH 431--Physical and Computational Chemistry Laboratory	2 SH
CH 430A--Thermodynamics and Kinetics	3 SH
CH 466--Modern Inorganic Chemistry	3 SH
CH 495--Seminar in Chemistry	1 SH

Bachelor of Science in Chemistry-ACS Certified — 59 SH

In addition to the lower and upper division requirements listed previously, students must complete 25 upper division semester hours of chemistry courses, which must also include:

CH 428--Synthesis and Characterization Laboratory or CH 431-- Synthesis and Characterization Laboratory	2 SH
CH 430B--Quantum Theory and Spectroscopy	3 SH
CH 452A--Biochemistry I	3 SH
CH 499E-W--Capstone Research Experience*	1 SH

* Approval of Chemistry Department Committee required.

Chemistry Minor **27 SH**

Lower Division Requirements *15 SH*

CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
CH 250--Organic Chemistry I	4 SH
CH 251--Organic Chemistry Laboratory I	1 SH

* Prerequisites may be required depending upon mathematics placement.

Upper Division Requirements *12 SH*

Twelve upper division semester hours, which must include:

CH 420--Organic Chemistry II	3 SH
CH 421--Organic Chemistry Laboratory II	2 SH

BIOCHEMISTRY

The Bachelor of Science with majors in Biochemistry and ACS-approved Biochemistry are offered by the Department of Chemistry. These programs are designed for students who are interested in this sub-discipline of chemistry and would like to combine their biochemistry degree with either a minor or major in biology. A minor in biology is a requirement for the degree.

These degree programs are designed to prepare students for graduate or medical school and/or employment in the biotechnology industry. The Bachelor of Science in Biochemistry degree requires 21 upper division hours in chemistry and 12 upper division hours in Biology. This program follows the curriculum guidelines recommended by the American Society for Biochemistry and Molecular Biology (ASBMB). The Bachelor of Science in Biochemistry degree with ACS certification follows the guidelines established by the American Chemical Society (ACS) as well as the ASMBM.

The Biochemistry programs are designed for students who are interested in an integrated Chemistry/Biology curriculum that brings together the study of the following: fundamental chemical principles; biophysical and structural chemistry of biomolecules with an emphasis on proteins and nucleic acids; new DNA cloning and gene modeling and computational biochemistry; and advanced topics in biology such as genetics, microbiology and immunology.

Bachelor of Science in Biochemistry **65 SH**

Lower Division Requirements *39 SH*

BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic*	3 SH
BL 263--Organismic Biology Laboratory	1 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
CH 250--Organic Chemistry I	4 SH
CH 251--Organic Chemistry Laboratory I	1 SH
MT 360A--Calculus I*	4 SH
MT 360B--Calculus II*	4 SH
PH 304A--General Physics with Calculus I	3 SH
PH 305A--General Physics with Calculus Laboratory I	1 SH
PH 304B--General Physics with Calculus II	3 SH
PH 305B--General Physics with Calculus Laboratory II	1 SH

* Prerequisites may be required depending upon mathematics placement.

Upper Division Requirements *26 SH*

BL 426--Molecular Biology	3 SH
BL 427--Molecular Biology Laboratory	1 SH
CH 420--Organic Chemistry II	3 SH
CH 421--Organic Chemistry Laboratory II	2 SH
CH 424--Analytical Chemistry	3 SH
CH 426--Quantitative Analytical Laboratory	2 SH
CH 430A--Thermodynamics and Kinetics	3 SH
CH 452A--Biochemistry I	3 SH
CH 452B--Biochemistry II	3 SH
CH 453--Biochemistry Laboratory	2 SH
CH 495--Seminar in Chemistry	1 SH

Students applying to medical, dental or veterinary schools are strongly encouraged to complete at least two of the following courses:

BL 412--Developmental Biology	3 SH
BL 414--Principles of Genetics	3 SH
BL 415--Principles of Genetics Laboratory	1 SH
BL 418--Microbiology	3 SH
BL 424--Cell Biology	3 SH
BL 466--Immunology	3 SH

Bachelor of Science in Biochemistry--
ACS Certified 69 SH

In addition to the lower and upper division requirements listed previously, students must complete 25 upper division semester hours of chemistry courses, which include:

CH 466--Modern Inorganic Chemistry	3 SH
BL 499E-W--Capstone Research Experience	1 SH

CHEMISTRY COURSE DESCRIPTIONS (CH)

CH 200 E-W. CHEMISTRY IN CONTEXT (3). Develops around a central chemical theme on selected topics chosen by the instructor. NOTE: Designed specifically for non-science majors to meet the Natural Science Core requirement when taken with CH 201 E-W.

CH 201 E-W. CHEMISTRY IN CONTEXT LABORATORY (1). Involves laboratory exercises accompanying and reinforcing lecture topics. May be used to fulfill the Natural Science Core requirement.

CH 202. INTRODUCTION TO ENVIRONMENTAL CHEMISTRY (3). Provides a qualitative introduction to the chemical aspects of environmental and social issues for the non-science student. Includes the role of science and technology, water and air pollution, conventional and alternate energy sources, nuclear power and selected topics relating to local and global issues in energy and the environment. Co-requisite: CH 203. NOTE: Designed specifically for non-science majors to satisfy the Natural Science Core Requirement when taken with CH 203.

CH 203. INTRODUCTION TO ENVIRONMENTAL CHEMISTRY LABORATORY (1). Involves laboratory exercises accompanying and reinforcing lecture topics. Co-requisite: CH 202. NOTE: One three-hour laboratory period.

CH 206A. CHEMISTRY FOR HEALTH RELATED SCIENCES (3). A descriptive introduction to the fundamentals of chemistry with emphasis on atomic structure, chemical bonding and reactions and the properties of various states of matter. This is followed by a brief treatment of the chemistry of selected elements and compounds, especially those pertaining to biological systems. Co-requisite: CH 207A. Prerequisite(s): Adequate preparation in high school mathematics. NOTE: Designed for health care programs and also fulfills Natural Science Core requirements. Offered every fall semester.

CH 207A. CHEMISTRY FOR HEALTH RELATED SCIENCES LABORATORY (1). Involves laboratory experiments accompanying CH 206A. Co-requisite: CH 206A. NOTE: One three-hour laboratory per week.

CH 209. INTRODUCTORY COLLEGE CHEMISTRY (3). Introduction to general chemistry with an emphasis on developing quantitative problem solving skills. For students without high school chemistry or with limited mathematics background. NOTE: Successful completion of CH 209 prepares students to enroll in CH 210.

CH 210. PRINCIPLES OF CHEMISTRY I (4). Introduces chemical and physical properties of matter, atomic structure, stoichiometry, periodicity, chemical bonding, molecular geometry, thermodynamics, and aqueous chemistry. Co-requisite: CH 211. Pre-requisite: An ACT Math Score of 23 or greater, an SAT Math score of 500 or greater, or a passing grade on the Chemistry Exam, Math Exam, or CH 209.

CH 211. PRINCIPLES OF CHEMISTRY LABORATORY I (1). Introduces fundamental laboratory techniques including chromatography, chemical synthesis, spectroscopy and acid/base chemistry. Co-requisite: CH 210 or CH 220. NOTE: One three-hour laboratory per week.

CH 220. HONORS PRINCIPLES OF CHEMISTRY I (4). An honors-level course for students with strong skills in math and/or chemistry. Topics are similar to CH 210, but with more in-depth coverage. Intended for students considering a major in chemistry, biochemistry or pre-medicine. Co-requisite: CH 211. Prerequisite(s): Minimum score of 28 on the math ACT or permission of the instructor required.

CH 230. PRINCIPLES OF CHEMISTRY II (4). Continuation of CH 210. Examines the following fundamental chemical principles: equilibrium theory; acid-based chemistry; chemical kinetics; thermodynamics; and electrochemistry. Additional special topics may include transition metal chemistry, the chemistry of new materials, nuclear chemistry, and geochemistry. Co-requisite: CH 231. Prerequisite(s): C- or better in CH 210 or permission of instructor required.

CH 231. PRINCIPLES OF CHEMISTRY LABORATORY II (1). A continuation of fundamental lab techniques including chromatography, chemical synthesis, spectroscopy, and acid/base chemistry. Co-requisite: CH 230. Prerequisite(s): CH 211 or permission of instructor required.

CH 250. ORGANIC CHEMISTRY I (4). Studies the molecular structure of organic compounds, their functional groups, physical properties, and the relationship between structure and reactivity. Introduces the principles of reaction thermodynamics and kinetics. Co-requisite: CH 251. Prerequisite(s): CH 230 and CH 231.

CH 251. ORGANIC CHEMISTRY LABORATORY I (1). Investigates techniques used to separate, purify, and identify organic compounds. Co-requisite: CH 250. Prerequisite(s): CH 230 and CH 231.

CH 420. ORGANIC CHEMISTRY II (3). Comprehensive survey of organic chemical reactions and their mechanisms. Covers spectroscopic techniques including NMR, IR, and MS. Introduces biomolecules such as peptides, carbohydrates, lipids, and nucleic acids. Includes multi-step organic synthesis. Co-requisite: CH 421. Prerequisite(s): C- or better in CH 250.

CH 421. ORGANIC CHEMISTRY LABORATORY II (2). Synthesis of selected organic compounds and identification by spectroscopic methods. Includes multi-step organic synthesis. Co-requisite: CH 420. Prerequisite(s): CH 251.

CH 424. ANALYTICAL CHEMISTRY (3). Emphasizes the principles and methodologies of modern chemical analysis, including aqueous equilibria electrochemistry and chromatography. Prerequisite(s): CH 420 and CH 421. Co-requisite: CH 426.

CH 426. QUANTITATIVE ANALYTICAL LABORATORY (2). A laboratory-based course covering the theory and practice of modern analytical chemistry. Emphasis is placed on contemporary instrumental techniques, especially spectroscopic and chromatographic methods of chemical analysis. Prerequisite(s): CH 420 and 421. Co-requisite: CH 424.

CH 428. SYNTHESIS AND CHARACTERIZATION LABORATORY (2). Laboratory-based course devoted to synthetic methods used in inorganic and organic chemistry together with standard chemical characterization methods, such as gas chromatography, infrared, ultraviolet, and nuclear magnetic resonance spectroscopy. Prerequisite(s): CH 424 and CH 426 or permission of instructor. Co-requisite: CH 466.

CH 430A. THERMODYNAMICS AND KINETICS (3). Formal development of classical thermodynamics with applications to chemical equilibria, phase equilibria, active and passive ion transport across cell membranes, and protein folding; applications of kinetic molecular theory to gas-phase and solution-phase chemical reactions. Prerequisite(s): PH 304B and CH 230 and MT 360B or permission of instructor.

CH 430B. QUANTUM THEORY AND SPECTROSCOPY (3). Studies chemical kinetics, electrochemistry, kinetic molecular theory, photochemistry, atomic and molecular structure. Prerequisite(s): PH 304B and CH 230 or permission of instructor. Cross-listing: PH 460.

CH 431. PHYSICAL AND COMPUTATIONAL CHEMISTRY LABORATORY (2). Laboratory-based course focusing on the use of modern spectroscopic and computational techniques for studying chemical equilibria, reaction kinetics, and molecular structure. Prerequisite(s): CH 424, CH 426, and CH 430A or permission of instructor. Co-requisite: CH 430B.

CH 448. ADVANCED ORGANIC CHEMISTRY (3). Explores advanced topics in physical and synthetic organic chemistry including: kinetic isotope effects, reaction mechanisms, biomolecules and their structure, and multi-step syntheses. Prerequisite(s): CH 460. NOTE: Offered every other fall semester.

CH 452A. BIOCHEMISTRY I (3). Introduces the structure and function of proteins. Includes an in depth study of enzyme kinetics and specificity, the thermodynamics of biological systems and introduces metabolic processes. Prerequisite(s): CH 420. NOTE: CH 430A recommended. .

CH 452B. BIOCHEMISTRY II (3). Surveys metabolism and regulation, including glycolysis, electron transport, photosynthesis and oxidative phosphorylation. Includes fatty acid breakdown, lipid biosyntheses, nucleic acid structure, and molecular evolution. Optional Co-requisite: CH 453. Prerequisite(s): CH 452A. .

CH 453. BIOCHEMISTRY LABORATORY (2). Introduces fundamental biochemical techniques and instrumentation, including the isolation and purification of biomolecules, three dimensional modeling, and biophysical experiments. Co-requisite: CH 452B. Prerequisite(s): CH 452A. NOTE: One hour of laboratory lecture plus four laboratory hours per week. Offered every spring semester.

CH 466. MODERN INORGANIC CHEMISTRY (3). Surveys the chemistry of metals and their compounds. Topics include advanced concepts in periodic behavior, the study of bonding models used for transition metals and their complexes; the symmetry of and spectroscopic characterization of transition metal complexes; and the kinetic and mechanisms of transition metal complex reactions. Additional topics may include metals in biological systems and medicine; geochemistry; the chemistry of modern materials; and organometallic compounds as catalysts. Prerequisite(s): CH 420 and CH 421.

CH 490E-I. INDEPENDENT STUDY IN CHEMISTRY: RESEARCH IN PHYSICAL CHEMISTRY (1-3). Advanced study in independent research projects in chemistry and biochemistry. Prerequisite(s): Majors and minors only. Permission of instructor.

CH 490J-N. INDEPENDENT STUDY CHEMISTRY: RESEARCH IN CHEMISTRY (1-3). Advanced study in independent research projects in chemistry and biochemistry. Prerequisite(s): Majors and minors only. Permission of instructor.

CH 490O-S. INDEPENDENT STUDY IN CHEMISTRY: RESEARCH IN INORGANIC AND BIOCHEMISTRY (1-3). Advanced study in independent research projects in chemistry and biochemistry. Prerequisite(s): Majors only. Permission of instructor.

CH 490T-W. INDEPENDENT STUDY IN CHEMISTRY: RESEARCH IN ORGANIC SYNTHESIS (1-3). Advanced study in independent research projects in chemistry and biochemistry. Prerequisite(s): Majors and minors only. Permission of instructor.

CH 495. SEMINAR IN CHEMISTRY (1). Addresses advances in analytical, biochemistry, inorganic, organic, and physical chemistry. Requirements may include literature search, oral presentations and written exams and papers. Prerequisite(s): Majors only. Senior standing required. Approval of department chair required. NOTE: Offered every spring semester.

CH 498E-W. INTERNSHIP IN CHEMISTRY (3). Provides a working environment in which practical experience in the application of chemistry is obtained under appropriate supervision. Prerequisite(s): Approval of department chair and director of Academic Internship Program. NOTE: Credit may not be counted to fulfill the minimum upper division semester hour requirement for a major in Chemistry or Biochemistry.

CH 499E-W. CAPSTONE RESEARCH EXPERIENCE (1). Students perform experimental research, theoretical research, or a critical review of literature at either Regis or another laboratory under the supervision or sponsorship of a chemistry faculty member. The student submits a proposal of study to a Departmental committee that includes the student's supervisor. At the end of the semester, the student must submit a formal research report. Prerequisite(s): CH 420 and CH 421 or permission of instructor required. NOTE: Regular attendance at Chemistry Department seminars is expected and encouraged.

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COMMUNICATION

Dr. Janna Goodwin, Associate Professor, Chairperson

Dr. Janellen Hill, Professor

Dr. Arne G'Schwind, Associate Professor

Dr. Robert Margesson, Associate Professor

Dr. Krista Belanger, Assistant Professor

Dr. Sue Sci, Term Faculty

Dr. Emily Downing, Instructor

Mr. Brian Schuader, Instructor

Lower Division Core Studies Requirement	*3 SH*
COM 210/COM 210C--Speech Communication	3 SH

Communication Major	**39 SH**
Lower Division Requirements	*12 SH*
COM 380--Communication: Questions, Contexts, and Theory	3 SH
COM 381--Research Methods in Communication	3 SH
Six semester hours of a 300-level Communication course selected from the following:	
COM 303--American Media Institutions	3 SH
COM 307--Performing Texts: Interpretation and Acting	3 SH
COM 310--Interpersonal Communication	3 SH
COM 311--Business and Professional Communication	3 SH
COM 312--Performances of Self and Society	3 SH
Upper Division Requirements	*27 SH*
COM 427--Communication Ethics	3 SH
COM 495--Senior Capstone Experience	3 SH
COM 496M/496O/496P--Communication Practicum or COM 498M/498O/498P--Internship in Communication	3 SH
Eighteen upper division semester hours of Communication courses selected from the following:	
COM 400--Intercultural Communication	3 SH
COM 402--Media Aesthetics	3 SH
COM 409--Critical Methods for Visual Communication	3 SH
COM 413--Strategies of Dialogue	3 SH
COM 414--Small Group Communication	3 SH
COM 416--Public Relations	3 SH
COM 418--Organizational Communication	3 SH
COM 421--Persuasion and Argumentation	3 SH
COM 424--New Communication Technologies	3 SH
COM 425--Video Production	4 SH
COM 428--Media and Politics	3 SH
COM 430--Hearing the World: Music and Audio Technology in Contemporary Society	3 SH
COM 432--Advertising Theory and Practice	3 SH
COM 440--Gender, Sexuality and Communication	3 SH
COM 445--Television Programming and Criticism	3 SH
COM 464E-W--Film Criticism	3 SH

COM 481--Media and the Word	3 SH
COM 485E-W--Special Topics in Communication	3 SH
COM 486--Mass Communication and Society	3 SH
COM 490E-W--Independent Study in Communication	1-6 SH

In addition, Communication majors are required to select a minor in consultation with their advisor. This requirement is waived if the student chooses a second major.

Communication Minor	**18 SH**
Lower Division Requirements	*6 SH*
COM 380--Communication: Questions, Contexts, and Theory	3 SH
Communication Elective (300 level)	3 SH
Upper Division Requirements	*12 SH*

Twelve upper division semester hours of Communication courses selected with the approval of the major advisor.

COMMUNICATION COURSE DESCRIPTIONS (COM)

COM 210/COM 210C. SPEECH COMMUNICATION (3). Provides an overview of the process of communication and introduces communication theory. Provides practical training in the fundamentals of effective presentation for individuals in both public speaking and group communication settings. Emphasizes discussion of contemporary issues and the analysis of public discourse. NOTE: Required of all students seeking a bachelor's degree from Regis College. COM 210C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

COM 303. AMERICAN MEDIA INSTITUTIONS (3). Surveys the historical development of American mass media. Explores regulatory, economic, political, and social influences of mass communication.

COM 307. PERFORMING TEXTS: INTERPRETATION AND ACTING (3). Oral interpretation and acting both involve analyzing and interpreting literature (poetry, prose, drama) and communicating that interpretation through performance. Prerequisite(s): COM 210 or COM 210C. NOTE: Sophomore standing required.

COM 310. INTERPERSONAL COMMUNICATION (3). Studies interpersonal aspects of communication. Introduces concepts and related skills that define communication in a variety of face-to-face contexts. Includes models of communication, language and meaning, nonverbal and verbal communication, perception, conflict and establishing positive human relationships via communication. Prerequisite(s): COM 380 or equivalent or permission of instructor.

COM 311. BUSINESS AND PROFESSIONAL COMMUNICATION (3). Introduction to basic skills, principles and contexts of communication in business and professional settings. Focuses on organization, adaptation and delivery of presentations for many types of business and professional settings. Prerequisite(s): COM 380 or permission of instructor. Cross listing: BA 311.

COM 312. PERFORMANCE OF SELF AND SOCIETY (3). Provides an overview of the many performances that create and support individual and social identity. Studies the notion of "performance" through sociological, anthropological, and literary/artistic lenses. Point's performance as one of the most creative, imaginative, and pragmatic of human communication responses. Prerequisite(s): COM 210. Majors or minors only. Sophomore standing required.

COM 315. WRITING FOR THE MEDIA (3). Studies writing for different mass media including print and broadcast news, public relations, and advertising. Develops practical skills and understanding of writing for varying media audiences and for different purposes.

COM 380. COMMUNICATION: QUESTIONS, CONTEXTS, AND THEORY (3). Examines ways that communication constitutes social life and introduces several important theories of meaning making for dialogic consideration. Explores interpersonal relationships; the intersections of language, gender, culture, and power, and the dynamics of mass media and society. Foregrounds the notion of context, and engages the question of how we ought to live. NOTE: Required for all Communication majors or minors.

COM 381. RESEARCH METHODS IN COMMUNICATION (3). Surveys a variety of communication research methods and guides students through their own research proposals and/or projects. Students learn to write literature reviews, research questions and reports, observe, document and analyze communication, and conduct interviews and surveys. NOTE: Required for all Communications majors.

COM 400. INTERCULTURAL COMMUNICATION (3). Using readings, film, field experience and/or dialogue, the course investigates cultural identity, meaning, patterns, relationships, and conflicts that arise as contact increases between people of different cultures in our global society. Prerequisite(s): COM 380 or permission of instructor. Cross listing: PJ 406.

COM 402. MEDIA AESTHETICS (3). A survey of aesthetic considerations of television, film, and radio. Students will examine the fundamental image elements-light, space, time-motion, and sound. Prerequisite(s): COM 380.

COM 403E-W. FORENSIC PARTICIPATION (1). Students prepare at least two events in public speaking and/or oral interpretation of literature. Requires attendance at a minimum of two tournaments to qualify for credit. Prerequisite(s): COM 380 or permission of instructor. NOTE: Students who wish to participate in competitive forensic tournaments can earn up to three (3) semester hours credit (one credit per semester over three semesters).

COM 405. INTERPERSONAL CONFLICT STUDIES (3). Examines conflict in a variety of human relationships. Explores conceptual and practical skills to analyze and manage conflicts including face-to-face and third-party negotiations. Prerequisite(s): COM 380. Cross listing: PJ 405.

COM 409. CRITICAL METHODS FOR VISUAL COMMUNICATION (3). Studies a variety of methods currently utilized for conducting a critical analysis of communication acts. Includes dramatism, semiotics, narrative theory, reader-oriented criticism, feminist criticism, and others. Students apply one or more of these methods in developing and presenting critical analyses of discourses. Prerequisite(s): COM 380 or permission of instructor.

COM 413. STRATEGIES OF DIALOGUE (3). Examines the dynamics of group communication through theoretical lenses, explores some difficulties in negotiating high-stakes or emotional terrain, and practical approaches for imagining, conducting and participating in productive dialogues. Prerequisite(s): COM 380. Cross listing: PJ 413.

COM 414. SMALL GROUP COMMUNICATION (3). Provides a comprehensive overview of psychological group theories and empirical findings, emphasizing the principles of group dynamics. Includes group projects and classroom simulations. Prerequisite(s): COM 380 or PY 250. Cross listing: PY 445.

COM 416. PUBLIC RELATIONS (3). Studies the history, purpose, and processes of public relations. Examines public relations tools and practices, ranging from preparing and conducting a public relations program, setting up a news conference, establishing and running a speaker bureau, designing and producing a brochure and editing an employee newsletter. Prerequisite(s): BA 420 for business students only. Cross listing: BA 416.

COM 418. ORGANIZATIONAL COMMUNICATION (3). Surveys contemporary organizational communication theories and practices. Investigates issues such as diversity, participation, technology, corporate ethics, the environment, and globalization. Focuses on analyzing and critiquing current organizational practices and assumptions, with an aim toward increasing social justice and ethics. Prerequisite(s): COM 380. Junior standing required for Business students only. Cross listing: BA 418 or PJ 423.

COM 421. PERSUASION AND ARGUMENTATION (3). Studies persuasion and argumentation from the early Aristotelian perspective to contemporary research. Includes models of the persuasive process, emotional stimulation, proofs and reasoning, cultural premises, and ethics of persuasion. Prerequisite(s): COM 380.

COM 424. NEW COMMUNICATION TECHNOLOGIES (3). Examines how new media works, what effects may result from their use in public and private settings, and how they might, when necessary, be regulated. Prerequisite(s): COM 380.

COM 425. VIDEO PRODUCTION (3). A survey of video production methods and aesthetic theory. Students become proficient in pre-production planning, basic video production techniques, and equipment, using both studio and remote equipment. Students produce a basic video project. Prerequisite(s): COM 380 and COM 402.

COM 427. COMMUNICATION ETHICS (3). Explores theoretical and practical issues in the explanations of ethical options and decisions in relational, organizational, and mass communication contexts. Case studies, practical analysis, and current ethical dilemmas in communication are investigated from multiple theoretical perspectives. Prerequisite(s): COM 380.

COM 428. MEDIA AND POLITICS (3). Examines the relationship of mass media and political campaigns. Explores political communication aspects including news, debates, polls, advertising, technology, and effects on voters. Examines the role of media in political scandal or foreign affairs. Prerequisite(s): COM 380.

COM 430. HEARING THE WORLD: MUSIC AND AUDIO TECHNOLOGY IN CONTEMPORARY SOCIETY (3). Engage creatively and critically with the society around us in artistic and socially aware ways through creation of original audio projects such as studio and live recordings, electronic compositions, radio plays, oral histories, audio postcards, etc. Techniques to be covered include the use of microphones, recording equipment, and audio sequencing/editing software. Prerequisite(s): Junior standing only.

COM 432. ADVERTISING THEORY AND PRACTICE (3). Studies advertising and promotional aspects of marketing in depth. Integrates theory with practical planning, management and strategy issues. Prerequisite(s): COM 380. BA 420 for business students only. Cross listing: MKT 432.

COM 440. GENDER, SEXUALITY AND COMMUNICATION (3). Explores connections between communication, gender, and sexuality in close relationships, organizations and the media. Course involves readings, dialogues, films, field trips, and group projects. Prerequisite(s): COM 380 or WGS 400 or permission of instructor. Cross listing: WGS 440.

COM 445. TELEVISION PROGRAMMING AND CRITICISM (3). Studies television programming, theory, techniques, and strategies. Explores the themes and assumptions inherent in television messages and the role of audience research in the development of television content. Prerequisite(s): COM 380.

COM 464E-W. FILM CRITICISM: (3). Introduces the technical evolution and history of film and the principles of aesthetic criticism, film analysis and the evolution of themes and genres. Considers basic elements of cinema including screen writing, direction, casting, production, cinematography, and editing. Prerequisite(s): COM 380.

COM 475. IN-DEPTH NEWS REPORTING AND WRITING (3). Develop beat and in-depth news stories, practicing skills in research, source development and interviewing; story framing, structure, and style; graphics and layout design. Considers perspectives on the role of journalists in democratic society. Prerequisite(s): COM 380 or permission of instructor required.

COM 481. MEDIA AND THE WORD (3). A multidimensional exploration of the cultural and religious dimensions of communications media (oral, written, electronic) based on the tradition of analysis of Catholic Media scholars H. Marshall McLuhan and Walter J. Ong, S.J. Prerequisite(s): COM 380, RT 201, and any religious studies 300 level elective. Cross listing: CAS 420E and RT 461 .

COM 485E-W. SPECIAL TOPICS IN COMMUNICATION (3). Examines special topics in the field of communication in depth. Includes assignment options of original research and creative projects. Prerequisite(s): COM 380 or permission of instructor.

COM 486. MASS COMMUNICATION AND SOCIETY (3). Investigates and analyzes economic, political, and ideological dimensions of mass communication and social control, and the development of mass media forms. Prerequisite(s): COM 380 or SO 200. Cross listing: SO 486.

COM 490E-W. INDEPENDENT STUDY IN COMMUNICATION (1-6). Supervision by a faculty member on advanced research or practice in one of the media that meets the individual needs of the student. Prerequisite(s): Approval of department chair. NOTE: May be taken only once for credit towards the Communication major, and a second time for elective credit.

COM 495. SENIOR CAPSTONE EXPERIENCE (3). Brings senior Communication majors together to explore the synthesis of the discipline. Students engage in research projects, job-search strategies, interviewing and professional development. Prerequisite(s): COM 380 and Majors only. Minimum of 18 semester hours in Communication and completion of 86 semester hours or more.

COM 496M/O/P. COMMUNICATION PRACTICUM (3). Offers an opportunity for placement in educational settings for applied learning and experience in Communication. Provides faculty-directed field experience. Progress is guided and monitored by both on-site and faculty supervisors. Site selection emphasizes the best combination of prior academic learning and experience. Practicum experiences typically involve Regis sponsored programs in Conflict and Dialogue studies. Practicum placement is for advanced Communication students. Prerequisite(s): COM 380. Placement approval by Faculty Supervisor. NOTE: 3 semester hours may count toward the Communication major; a total of 6 semester hours may be completed toward graduation.

COM 498M/O/P. INTERNSHIP IN COMMUNICATION (3). Offers an opportunity for placement in industry, media organizations, government or other agency for applied learning and experience. Progress is guided and monitored by both on-site and faculty supervisors. Site selection emphasizes the best combination of prior academic learning and experience. Internships are for advanced Communication students. Prerequisite(s): COM 380. Completion of 12 additional hours in Communication major and GPA of 2.5 or higher required. NOTE: Placement approval by faculty Internship supervisor and Director of Academic Internships required.

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COMPUTER SCIENCE

See Physics and Computational Science section.

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CRIMINOLOGY

Dr. Gilbert Gardner, Program Director

A major in Criminology is not available.

Criminology is the critical analysis of the social, political, and economic factors contributing to crime and the social response to crime. The program encourages students to become involved in service activities related to prisoners, parolees, crime victims, youthful offenders, the court system, etc.

Criminology Minor	**12 SH**
Upper Division Requirements	*12 SH*
CR 450--Criminology	3 SH

Nine additional upper division semester hours of Criminology selected with the approval of the major advisor.

CRIMINOLOGY COURSE DESCRIPTIONS (CR)

CR 401. CONSTITUTIONAL LAW(3). Comparative analysis of the US Constitutional legal system to other systems, with a primary focus on the US system. Covers a standard undergraduate law text. Prerequisite(s): POL 281, POL 241, or POL 231. Cross listing: POL 400.

CR 403. COURTS AND JUDICIAL PROCESS (3). Explores administration of justice emphasizing the United States systems. Focuses on judicial decision-making and procedures in federal and state judicial systems. Prerequisite(s): Junior standing or permission of instructor required. Cross listing: POL 403.

CR 412. CHILDREN'S EYEWITNESS TESTIMONY (3). Introduces the student to the issues surrounding children's eyewitness testimony. Explores issues and insights into Children's eyewitness testimony using a topic approach. Prerequisite(s): PY 250 or SO 200. Cross listing: PY 412.

CR 415. FORENSIC PSYCHOLOGY (3). Provides a critical analysis of the law, focusing on the criminal justice system in our society. Emphasizes the psychological, social, and cultural factors that influence the criminal justice system, and the use of behavioral science techniques. Prerequisite(s): PY 250 or SO 200. Cross listing: PY 484.

CR 416. DEVIANCE (3). Provides a historical and comparative study of social deviance, including definitions of and reactions to deviance, and deviance as collective behavior. Examines various sociological theories of deviance, and social groups and behaviors defined as deviant in the United States and other countries. Prerequisite(s): SO 200 or permission of instructor. Cross listing: SO 416.

CR 422. DIVERSITY IN U.S. SOCIETY (3). Provides a critical and comparative analysis of race, ethnicity, and other diversity in the United States. Includes racism, creation, and maintenance of ethnic group status, political processes, and movements for self-determination. Prerequisite(s): SO 200 or SO 203 or permission of instructor required. Cross listing: SO 422.

CR 450. CRIMINOLOGY (3). Analyzes social, political, and economic dynamics of crime including corporate and government crime, racism and sexism in the criminal justice system, and imprisonment. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: SO 450.

CR 451. JUVENILE DELINQUENCY (3). Investigates juvenile delinquency in the context of social and political authority, the operations of the criminal justice system, youth culture and youth subcultures, and related social issues. Presents various sociological theories of juvenile delinquency, and examines various historical and contemporary manifestations of juvenile crime and deviance. Prerequisite(s): SO 200 or SO 203 or permission of instructor. Cross listing: SO 451.

CR 452. PUNISHMENT AND CORRECTIONS (3). Provides an historical, political, and economic analysis of the penal system in the United States. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: SO 452 or PJ 452.

CR 456. PHILOSOPHY OF LAW (3). Explores various issues in the philosophy of law, such as the relation of law to morality, the relation of natural law to morality, the question of natural law, and the nature and purpose of human law. Prerequisite(s): One 200-level Philosophy course. Cross listing: PL 452.

CR 474. MODERN SLAVERY AND TRAFFICKING (3). Modern Slavery and human trafficking in global perspective. Covers sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. Explores the role of the state, organized crime, the media, culture, corruption, and debates about prostitution. Includes testimonies by survivors research reports, theoretical essays, policy statements, expert testimonies, and videos. Prerequisite(s): SO 200 or PJ 400 or permission of instructor. Cross listing: PJ 474 and SO 474.

CR 459E-W. TOPICS IN CRIME AND JUSTICE (3). Selected courses focus on issues related to crime, police and the court system, punishment, social control, rehabilitation, etc. Cross listing: SO 459E-W. NOTE: CR 450 or SO 450 recommended.

CR 490E-W. INDEPENDENT STUDY IN CRIMINOLOGY (1-3). Applies independent research in selected areas of criminal justice. Prerequisite(s): CR 450 or SO 450 and approval of Sociology department chair.

CR 498E-W. INTERNSHIP IN CRIMINOLOGY (3). Integrates practical experience and intellectual guidance based on employment or volunteer work. Prerequisite(s): CR 450 or SO 450 and approval of Sociology department chair and director of Academic Internship Program.

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ECONOMICS AND POLITICAL ECONOMY

Mr. Matthew Daly, Associate Professor, Chairperson

Dr. Robin Koenigsberg, Associate Professor

Dr. Allan Brunner, Assistant Professor

Dr. AnaMaria Conley, Assistant Professor

MISSION STATEMENT

The Division of Business provides business education within a traditional college experience, emphasizing analytical models, technical systems, and contemporary competencies. Within a moral, ethical, and intellectual framework, students pursue an understanding of the changing world of business and economic systems in the global business community.

The faculty is committed to personal and professional integrity and competence in the service of others. In this way, students are challenged to academic accountability and excellence. The Division's purpose is to graduate students prepared for careers as competent professionals and good citizens who answer for themselves "How ought we to live?".

DIVISION OF BUSINESS REGULATIONS

1. A student must have a grade point average of 3.000 or greater to enroll in an Independent Studies course or Special Studies course. Any deviation from the above minimum grade point requirement needs approval by the division director upon recommendation of the student's advisor.
2. A student must have a grade point average of 2.500 or greater and be of Junior or Senior standing to enroll in EC 498E-W--Internship in Economics. No more than one internship may be taken each semester. Any deviation from these requirements needs approval of the division director upon recommendation of the student's advisor.
3. Students who major or minor in Economics may not use credit earned in Internship courses to fulfill major/minor requirements for the degree. However, all students are strongly encouraged to complete an Internship or to obtain equivalent work experience before graduation.

Economics Major	**45 SH**
Lower Division Requirements	*21 SH*
AC 320A--Principles of Accounting I	3 SH
AC 320B--Principles of Accounting II	3 SH
EC 320--Principles of Macroeconomics	3 SH
EC 330--Principles of Microeconomics	3 SH
BA 250--Introduction to Business	3 SH
MT 270/MT 270C--Introduction to Statistics	3 SH

BA 282--Introduction to Information Systems Concepts 3 SH

Upper Division Requirements *24 SH*

Twenty-four upper division semester hours of Economics courses, which must include:

EC 410--Microeconomic Theory 3 SH

EC 411--Macroeconomic Theory 3 SH

EC 425--Econometrics 3 SH

Upper Division Economics Electives 15 SH

Economics Minor 18 SH

Lower Division Requirements *6 SH*

EC 320--Principles of Macroeconomics 3 SH

EC 330--Principles of Microeconomics 3 SH

Upper Division Requirements *12 SH*

Twelve upper division semester hours of Economics courses which must include:

EC 411--Macroeconomic Theory 3 SH

Upper Division Economic Electives 9 SH

Political Economy Major 39 SH

Lower Division Major Requirements *15 SH*

EC 320--Principles of Macroeconomics 3 SH

EC 330--Principles of Microeconomics 3 SH

MT 270/MT 270C--Introduction to Statistics 3 SH

BA 282--Introduction to Information Systems Concepts 3 SH

POL 231--Introduction to International Relations
or
POL 241--Introduction to Comparative Politics and Government 3 SH

Upper Division Major Requirements *24 SH*

Twenty-four upper division semester hours of coursework in either Economics or Politics, which must include:

Macroeconomic Foundations

EC 411--Macroeconomic Theory 3 SH

EC/POL 432--International Political Economy 3 SH

EC/POL 445--Comparative Public Policy 3 SH

Microeconomic Foundations

A minimum of three semester hours selected from the following:

EC 410--Microeconomic Theory 3 SH

EC 440--Labor Relations and Economics 3 SH

EC 495F-W--Seminar on Current Economic Problems 3 SH

General Dimensions

A minimum of three semester hours selected from the following:

EC 425--Econometrics 3 SH

EC 460--Business Cycles and Forecasting 3 SH

EC 470--Economics Development in the Third and Fourth Worlds 3 SH

EC 481--International Economics 3 SH

EC 490E-W--Independent Study in Economics 3 SH

EC 495E--Ethical Decision Making in Business 3 SH

EC 498E-W--Internship in Economics 3 SH

Political Economy Minor 21 SH

Students who major in Economics may not minor in Political Economy.

Lower Division Requirements *15 SH*

EC 320--Principles of Macroeconomics 3 SH

EC 330--Principles of Microeconomics 3 SH

POL 231--Introduction to International Relations
or
POL 241--Introduction to Comparative Politics and Government 3 SH

Upper Division Requirements *12 SH*

Twelve upper division semester hours of coursework in either Economics or Politics, which must include a minimum of one, three semester hour course selected from each of the following three areas:

Macroeconomic Foundations

EC 411--Macroeconomic Theory 3 SH

EC/POL 432--International Political Economy 3 SH

Microeconomics Foundations

EC 410--Microeconomic Theory 3 SH

EC 440--Labor Relations and Economics 3 SH

EC 495F-W--Seminar on Current Economics Problems 3 SH

General Dimensions

EC/POL 445--Comparative Public Policy	3 SH
EC 460--Business Cycles and Forecasting	3 SH
EC 470--Economic Development in the Third and Fourth Worlds	3 SH
EC 481--International Economics	3 SH
EC 490E-W--Independent Study in Economics	3 SH
EC 495E--Ethical Decision Making in Business	3 SH
EC 498E-W--Internship in Economics	3 SH

ECONOMICS COURSE DESCRIPTIONS (EC)

EC 200. INTRODUCTION TO THE AMERICAN ECONOMY (3). Examines the history and development of the market economy and the effectiveness of relatively free markets in allocating society's scarce resources to their best uses. Discusses other economic systems and the role of government in correcting shortcomings of the market system including externalities, cyclical instability, and income distribution.

EC 320/EC 320C. PRINCIPLES OF MACROECONOMICS (3). Introduces macroeconomics, emphasizing the forces that determine the level of national product and national income, and the fiscal and monetary policies that are designed to influence their level. Explores the areas of public finance, money and the banking system, economic growth and international trade.

EC 330. PRINCIPLES OF MICROECONOMICS (3). Studies microeconomics, supply and demand. Examines the causes of different market structures, their influence on market conduct and performance, and issues of public policy towards a variety of different kinds of market behavior.

EC 400. COMPARATIVE ECONOMIC SYSTEMS (3). Compares and contrasts capitalism, socialism, and communism. Surveys the economic systems of various countries to discover strengths, weaknesses, and departures from the theoretical ideal. Includes the historical backgrounds of these various economic systems. Prerequisite(s): EC 320 and EC 330.

EC 410. MICROECONOMIC THEORY (3). Analyzes consumer behavior and market demand. Includes production and cost functions and their relationship to market supply. Evaluates various types of market structures and their impact on the economic well-being of our society. Prerequisite(s): EC 330.

EC 411. MACROECONOMIC THEORY (3). Emphasizes the determination of national income. Studies economic growth and the effects of various monetary policies and fiscal policies on general economic activity. Prerequisite(s): EC 320.

EC 412. UNITED STATES PUBLIC POLICY (3). Examines selected national public policies and their impact on U.S. political and social institutions.

EC 417. COST/BENEFIT ANALYSIS (3). Examines the theory of cost-benefit analysis. Includes evaluation of public and private decisions in areas such as the environment, government regulations and personal injury claims. Prerequisite(s): EC 320 and EC 330 or permission of instructor and Junior standing. Cross listing: BA 417.

EC 418. ENVIRONMENTAL ECONOMICS AND LAW (3). Examines the economic, legal, and political systems that affect and regulate the use and conversation of the environment. Examines topics such as sustainable development and environmental regulation. Prerequisite(s): EC 200 or EC 320. Cross listing: ENVS 418.

EC 420. MONEY AND BANKING (3). Studies the nature and functions of money and credit, including an understanding of the variety and growth of banking functions, and the influence on banks of Federal Reserve operations. Examines the relationships among money, interest rates, business investment needs, government borrowing, and the gross national product. Prerequisite(s): EC 320, EC 330 and either BA 430 or EC 410. Cross listing: BA 433.

EC 425. ECONOMETRICS (3). Studies the mathematical models used to analyze economic variables for purposes of testing economic theory, formulating policy, and making economic forecasts. The primary method covered is ordinary least squares regression analysis. Prerequisite(s): MT 270.

EC 432. INTERNATIONAL POLITICAL ECONOMY (3). Analyzes the interactions and interrelationships between political and economic factors at the global level. Factors include monetary management, trade, multinational corporations, foreign aid, cartels, and debt. Considers Western and North-South systems. Prerequisite(s): EC 200 or EC 320. Cross listing: ENVS 432, POL 432 and PJ 454.

EC 440. LABOR RELATIONS AND ECONOMICS (3). Examines unemployment, emphasizing its causes and possible cures. Prerequisite(s): EC 320 and EC 330. Cross listing: BA 440.

EC 443. ECONOMIC POLICY, JUSTICE AND THE COMMON GOOD (3). Uses readings in economics, philosophy and Catholic social teaching to evaluate economic theory and economic policies that address social ills (e.g., poverty, unequal income distribution, unequal access to health care.) Prerequisite(s): EC 200 or EC 320 or EC 330. Cross listing: CAS 443, PJ 478 and RCC 420J.

EC 444. ECONOMICS OF POVERTY AND INEQUALITY (3). Examines poverty, inequality, and discrimination in an economic context and explores the effectiveness of government policies designed to address associated inequalities. Consideration is given to the wealth gap, wage disparities, and capital access both within countries and between countries. Prerequisite(s): EC 320 and EC 330 or permission of instructor. Cross listing: BA 444, PJ 444 and WGS 444.

EC 445. COMPARATIVE PUBLIC POLICY (3). Provides a comparative examination of public policy in western industrialized nation-states emphasizing the interaction and interdependency of politics and economics. Evaluates basic issues of public policy including distribution, extraction, and regulation focusing on identifying both the range of possible choices and the actual outcomes of adopted policies under a variety of circumstances. Prerequisite(s): EC 200 or EC 320. Cross listing: ENVS 445 or POL 445 or PJ 446.

EC 460. BUSINESS CYCLES AND FORECASTING (3). Examines theoretical explanations of economic growth in advanced industrial economic systems and the causes of cyclical deviations from the growth trend. Covers forecasting national income and national product aggregates and emphasizes the use of forecasting techniques. Prerequisite(s): EC 320 and EC 330. Cross listing: BA 402.

EC 470. ECONOMIC DEVELOPMENT IN THE THIRD AND FOURTH WORLDS (3). Studies various models/theories of economic development that traces a history of underdevelopment in the third and fourth worlds. Investigates the various barriers and problem areas in developing countries. Assesses possibilities, prospects, and policies of the future. Prerequisite(s): EC 320. Cross listing: BA 472, ENVS 470, and PJ 470.

EC 481. INTERNATIONAL ECONOMICS (3). Examines the theoretical underpinnings of international economics. Emphasizes international trade theory, trade policy, exchange rate determination, factor movements, underdevelopment, balance of payments, national income, the international financial system and institutions, and regional trading blocks. Prerequisite(s): EC 320, EC 330 and either EC 410 or EC 411. Cross listing: BA 494.

EC 483. INTERNATIONAL FINANCE (3). Presents the economic issues of international finance, including the history in International Finance, fixed and flexible exchange rates, and international agencies that help stabilize international financial markets. Examines issues faced by financial managers of multinational firms. Prerequisite(s): EC 320, EC 330, BA 430 and Junior standing. Cross listing: BA 438.

EC 484. VALUES-FOCUSED PUBLIC POLICY (3). Examines the policies and procedures utilized by government to improve economic performance. Explores the role that individual and community worldviews and commitments to justice have in defining appropriate state and federal regulatory action, with particular attention to the Catholic worldview and Catholic Social Thought. Areas of study include anti-trust, consumer protection, employment law, and environmental law. Prerequisite(s): EC 200 or EC 320. Cross listing: BA 484, PJ 484, and CAS 460G.

EC 486. PUBLIC FINANCE (3). Examines the basic principles of public finance. Considers why there may be a role for government in the economy, what that role might be, and how government might most efficiently fulfill the tasks assigned it. Topics include efficiency and equity aspects of taxation and redistributive programs, private and public solutions to problems of externalities and public goods, government provision of health care and social insurance programs, as well as budgeting and public debt. Prerequisite(s): EC 320, EC 330 and either BA 430 or EC 410. Cross listing: BA 486.

EC 490E-W. INDEPENDENT STUDY IN ECONOMICS (1-6). Includes topics of interest not covered in regularly offered courses. Develops content under the direction of a faculty member. Prerequisite(s): Junior standing and approval of division director.

EC 495E. ETHICAL DECISION MAKING IN BUSINESS (3). Focuses on ethical problems, which arise in the business setting. Emphasizes the individual decision maker at the entry-level position versus the managerial level. Covers the various philosophical and social/psychological decision systems that can be used to resolve ethical problems. Includes case studies, role playing and guest speakers from the business community. Prerequisite(s): BA 250 and Junior standing or permission of instructor. Cross listing: AC 495E and BA 495E.

EC 495F-W. SEMINAR ON CURRENT ECONOMIC PROBLEMS (3). Focuses on economic analysis of problems of current importance. Based on current problems confronting our economy. Looks into the background and effects of economic policies selected to deal with these problems. Prerequisite(s): EC 320 and EC 330 and permission of instructor.

EC 498E-W. INTERNSHIP IN ECONOMICS (3). Provides faculty-directed fieldwork opportunity. Prerequisite(s): Approval of division director and director of Academic Internship Program. NOTE: Division of Business Regulations include relevant internship policy information for majors.

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EDUCATION

Dr. Elizabeth Grassi, Associate Professor, Chairperson

Dr. John Cross, Professor

Dr. Joan Armon, Associate Professor

Dr. Heidi Barker, Associate Professor

Ms. Nan Williams, Assistant Professor

Dr. Elizabeth Hope Dorman, Assistant Professor, Program Director, MAE: Graduate Teacher Licensure

Ms. Kathleen Nutting, Director, MAE Program

The teacher education program in Regis College actively engages teacher candidates in collaborative, reflective, and challenging learning experiences that wholly develop their capabilities as committed, caring, and qualified educators. Education students are actively involved in urban and diverse field experiences beginning with their introductory education courses.

Regis College Education Department offers professional licensure in elementary, secondary, and K-12 art and music. Licensure can be pursued as an undergraduate or as a graduate student in the Master of Arts in Education: Graduate Teacher Licensure Program. Students also have an option of completing any of the three minors or concentrations of study with the education department. These minors can be earned in addition to teaching licensure or independent from a teaching license. The minors include Literacy, Special Education, and Linguistically Diverse Education. Students interested in the Linguistically Diverse Minor also have the opportunity to earn graduate credit and complete coursework for the full ESL Endorsement. Recommendation by the Education department and acceptance into the MAE program are required. For details on these minors, see sections after the licensure sequences listed below.

A major in Education is not allowed in the state of Colorado. Students completing a teacher licensure program at Regis will also have completed requirements for a minor in Elementary Education, Secondary Education, Music or Art Education. However, it is also possible to complete a minor in Education without seeking teacher licensure.

All students enrolled in the Teacher Licensure Program at Regis College must have co-academic advisors, one in the major field and one in the Education Department.

The programs leading to recommendation for licensure, either at the elementary level or in a particular subject area at the secondary level, contain their own specific requirements. These requirements are listed on the advising sheet pertinent to that subject area. The advising sheets are available from an advisor in the Education Department. It is the student's responsibility to meet the requirements listed on that advising sheet.

The Regis Education Department Teacher Licensure Program is subject to the laws and regulations mandated by the Colorado State Board of Education and by the Colorado State Legislature. Changes in these laws and regulations can occur with little notice. Resulting modifications in the Regis program are communicated to students as soon as they are mandated by law.

TEACHER LICENSURE SEQUENCE

As a professional state licensure program, students may have requirements beyond those in Regis College. Performance and licensure standards can be found in the student handbook and on the Colorado Department of Education website. In addition students will adhere to the Dispositions of Teaching located in the student handbook.

The professional sequence of education courses at Regis are designed to lead to licensure at either the K-6, 7-12, or K-12 grade levels in Colorado. Regis students enrolled in this sequence begin developing teacher performance, dispositions, and knowledge during their first courses and initial field experiences. This developmental process is monitored by the Regis Education Department faculty, and students are evaluated each semester on their progress in this process. Evaluations are based on their work at Regis and in their fieldwork in the actual K-6, 7-12, or K-12 classroom. Regis students who begin this sequence may be counseled to pursue a profession other than teaching if their progress in one or all aspects of the sequence is considered unsatisfactory or if they do not manifest sufficient mastery of the skills necessary for successful entry into the teaching profession. A deficiency in one or more of these behaviors may be denied admission by the COTER, or removal, or probation from the program at any point.

For students with a B.A. or B.S. seeking teacher licensure, Regis College MAE department offers the Master of Arts in Education Graduate Teacher Program. This program provides College graduates a licensure track with a master's degree. For information about this licensure option, refer to the Regis College Master of Arts in Education Graduate Teacher Licensure Program that follows in this section of the *Catalog*.

Private/Parochial Track

Students who intend to teach in the private/parochial sector may choose a separate track for that purpose. Coursework is parallel to the licensure sequence below; some placements are made in private/parochial schools.

ELEMENTARY EDUCATION

Elementary Education Minor and Teacher Licensure Requirements

Successful completion of the following program at Regis may qualify a student to be recommended for licensure as an elementary teacher in Colorado. Successful completion of the elementary education licensure program also results in the completion of a minor in elementary education.

ED 200--Math for Teachers	2 SH
ED 204--Foundations of Education for Diverse Learners	3 SH
ED 300--Physical and Cultural Geography	3 SH
ED 302--Psychology for Educators	3 SH
ED 306--Assessment of Learning	3 SH
ED 380E-W--Field Work in Schools (3 sections minimum)	0 SH

ED/EDSP 401--Teaching the Exceptional Student in the General Education Classroom	3 SH
ED/EDLT 403A--Elementary Reading and Writing: Content, Instruction, and Assessment	3 SH
ED 410--Language, Literacy and Linguistics for Educators	3 SH
ED 417--Elementary Student Teaching	8-11 SH
ED 418A--Elementary Science: Content, Instruction, and Assessment	2 SH
ED 418B--Elementary Math: Content, Instruction, and Assessment	2 SH
ED 418C--Elementary Language Arts: Content, Instruction, and Assessment	2 SH
ED 418D--Elementary Social Studies: Content, Instruction, and Assessment	2 SH
ED 439--Practicum: Culturally and Linguistically Diverse	1 SH
ED/EDLT 447--Multicultural Literature and Literacy Across the Elementary Curriculum	3 SH
ED 485--Theories, Strategies, and Assessment for Culturally and Linguistically Diverse K-12	3 SH
ED 495--Student Teacher Seminar	1 SH
EDLD 403--Assessment of the Diverse Learner	3 SH
EDLD 475--Linguistics for Teachers of Culturally and Linguistically Diverse Students	3 SH

Additional Elementary Education Licensure Requirements

Candidates for teacher licensure in Elementary Education in the State of Colorado must have received liberal arts preparation in the following areas:

Art

Music

United States History

Two Sciences (one Biological and one Physical Science)*

College Algebra (MT 201) or higher

Physical Education and Health (Nutrition, Wellness, Fitness, or First Aid Responder)

* In order for the science courses to meet both the Regis College Core Studies requirements and the teacher licensure requirements, one science course must include a laboratory.

SECONDARY EDUCATION

Each subject area in which there is a secondary teacher education program has parallel requirements specifically developed for that particular subject area. Students are also responsible for completing those requirements.

Secondary Education Teacher Licensure Requirements (Education Course Requirements Only)

Successful completion of the secondary education licensure program also results in the completion of a minor in education. Successful completion of the following requirements may qualify a student to be recommended for licensure in a specific subject area at the secondary level in the State of Colorado. Students should consult an advisor for the additional requirements for secondary education licensure, which are not listed.

ED 200--Math for Teachers	2 SH
ED 204--Foundations of Education for Diverse Learners	3 SH
ED 302--Psychology for Educators	3 SH
ED 306--Assessment of Learning	3 SH
ED 380E-W--Field Work in Schools (3 sections minimum)	0 SH
ED/EDSP 401--Teaching the Exceptional Student in the General Education Classroom	3 SH
ED/EDLT 403B--Secondary Literacy: Content, Instruction and Assessment	3 SH

Methods course pertinent to the major subject area of licensure selected from the following (ED 421-ED 431):

ED 421--Secondary English Content, Instruction and Assessment	3 SH
ED 425--Secondary Foreign Language Content, Instruction and Assessment	3 SH
ED 427--Secondary Mathematics Content, Instruction and Assessment	3 SH
ED 427A--Secondary Business Content, Instruction and Assessment	3 SH
ED 429--Secondary Science Content, Instruction and Assessment	3 SH
ED 431--Secondary Social Studies Content, Instruction and Assessment	3 SH
ED 434--Secondary Student Teaching	8-11 SH
ED 435--Secondary Curriculum Planning and Classroom Management	3 SH
ED 439--Practicum: Culturally Linguistically Diverse	1 SH
EDLD 403--Assessment for the Diverse Learner	3 SH
EDLD 475--Linguistics for Teachers of Culturally Linguistically Diverse Students	3 SH

EDLT 415--Young Adult Literature
(required only of those seeking secondary licensure in English or minor in Literacy Education) 3 SH

ED/EDLD 485--Theories, Strategies, and Assessment for Culturally and Linguistically Diverse K-12 3 SH

ED 495--Student Teacher Seminar 1 SH

ART EDUCATION (K-12)

Successful completion of the K-12 Art Education program also results in the completion of a minor in education. Successful completion of a major in Fine Arts and the following requirements may qualify a student to be recommended for Art licensure at the K-12 level in the State of Colorado.

MUSIC EDUCATION (K-12)

Successful completion of the K-12 Music Education program also results in the completion of a minor in education. Successful completion of a major in Music and the following education course requirements may qualify a student to be recommended for Music licensure at the K-12 level in the State of Colorado.

K-12 ART OR K-12 MUSIC Education Teacher Licensure Requirements (Education Course Requirements Only)

ED 200--Math for Teachers 2 SH

ED 204--Foundations of Education for Diverse Learners 3 SH

ED 302--Psychology for Educators 3 SH

ED 306--Assessment of Learning 3 SH

ED/EDSP 401--Teaching the Exceptional Student in the General Education Classroom 3 SH

ED/EDLT 403A--Elementary Reading and Writing: Content, Instruction, and Assessment** 3 SH

ED 433--K-12 Art Content, Instruction and Assessment **
or
ED 433B--K-12 Music Content, Instruction and Assessment ** 3 SH

ED 434--Secondary Student Teaching *, ** 8-11 SH

ED 435--Secondary Curriculum Planning and Classroom Management 3 SH

ED 439--Practicum: Culturally Linguistically Diverse 1 SH

ED/EDLD 485--Theories, Strategies, and Assessment for Culturally and Linguistically Diverse K-12 3 SH

ED 495--Student Teaching Seminar ** 1 SH

EDLD 403--Assessment for the Diverse Learner 3 SH

EDLD 475--Linguistics for Teachers of Culturally Linguistically Diverse Students 3 SH

* Student will teach eight weeks elementary and eight weeks secondary.

** Admission to the Department of Education required.

DEPARTMENTAL REGULATIONS

The Committee on Teacher Education of Regis (COTER) develops the policies of the program and regulates the admission, retention, and recommendation of students for licensure. To qualify for admission into the Teacher Education Program, students must satisfy the following requirements:

1. University entrance requirements.
2. All students enrolled in ED 204--Foundations of Education for Diverse Learners must complete the CBI background check prior to beginning fieldwork in schools.
3. Completion of the COTER Screening form and the COTER acceptance process.
4. A minimum grade point average of a 2.750 on a 4.000 scale for prior college work in all subjects. Upper division students and graduates of other institutions are evaluated and accepted/rejected on an individual basis.
5. Successful completion of ED 204, ED 302, and ED 306 or the equivalent with a grade of “B-” or higher.
6. Fingerprinting and national background check by a local police department in accordance with CDE and school district policies.
7. A student must be able to demonstrate a level of acceptable proficiency in oral language, by completing a college course in basic speech with a grade of “B” or higher.
8. Students must have completed RCC 200 or an equivalent composition course with a grade of “C+” or higher.
9. Transfer students: No upper division education coursework may be transferred into Regis College without the advance written approval of the department chair. Transfer students must complete predetermined coursework prior to student teaching, to include either elementary or secondary “Content, Instruction, and Assessment” courses. All students must also be registered for ED 380E-W the semester prior to student teaching.
10. COTER considers each candidate’s qualifications for admission into the teacher education program. After reviewing these qualifications, the Committee takes appropriate action, which may include admission, rejection, or provisional acceptance.
11. COTER may also place admitted students on probation. Students will have two semesters to resolve the terms of their probation. Probationary students will not be allowed to advance to student teaching.
12. No one is permitted to enter the methods block in the Junior year until all requirements for acceptance into the program have been met.

13. Fieldwork required in the various courses must be successfully completed as part of the course.
14. After admittance into a Teacher Education Program, students must successfully proceed through the program and meet COTER requirements for advancement and licensure.
15. Students will be placed in student teaching assignments by the Education Department Placement Coordinator according to a variety of criteria including growth needs of students. Placements will be in the Denver Metro area and provide the student with frequent mentoring by their Regis College Supervisor.

REQUIREMENTS FOR ADVANCEMENT TO STUDENT TEACHING

1. A cumulative grade point average of 2.75 must be maintained, secondary students must also maintain a 2.75 in content major.
2. A grade of "B" or higher in methods classes, including the reading courses, ED 403A for elementary and ED 403B for secondary.
3. A cumulative GPA of 3.000 or higher is required in all education coursework for teacher licensure at Regis University.
4. Successful completion of all assigned fieldwork will be determined by completion of required hours, evaluation by cooperating teacher and Dispositions of Teaching. Three sections of ED 380E-W--Fieldwork in Schools must be completed for licensure.
5. PLACE or Praxis II exam must be passed prior to application for student teaching.
6. All students must be registered for ED 380E-W the semester prior to student teaching.
7. Students must submit an application to student teach which includes a completed resume, TB test and proof of liability insurance by the end of the first month of classes the semester prior to student teaching.

REQUIREMENTS FOR RECOMMENDATION FOR LICENSURE

1. Successful completion of student teaching.
2. Continued evidence of effective communication skills, teacher competencies, and characteristics.
3. Successful completion of graduation requirements.
4. Successful completion of the State mandated assessment in program content.
5. Completion of Regis College Teacher Work Sample and Portfolio, including the eight performance standards at proficient level.
6. Should the student successfully complete these requirements, COTER may recommend that the Regis representative officially approved by the Colorado Department of Education sign the student's application for state licensure.
7. The committee reserves the right to withhold recommendation for licensure based on deficiencies in any of the dispositions or behaviors listed or in any of the requirements of the program.

Education Minor 18 SH

Both the elementary and secondary programs leading to approval for licensure meet the Regis College standard for a minor area of concentration.

If a student wishes to pursue a minor in education without teacher licensure, the following courses are required:

Prerequisites	*6 SH*
ED 204--Foundations of Education for Diverse Learners	3 SH
ED 302--Psychology for Educators	3 SH
Upper Division Requirements	*12 SH*

Twelve upper division semester hours of Education courses selected with the approval of the major advisor.

Special Education Minor 18 SH

This minor is designed to give teachers deeper knowledge of special education assessment processes, instruction, and students. These classes focus on interventions for working with students with special needs in the general education classroom.

Prerequisites	*6 SH*
ED 204--Foundations of Education for Diverse Learners	3 SH
ED 302--Psychology for Educators	3 SH
Upper Division Requirements	*12 SH*
EDSP 401--Teaching the Exceptional Student in the General Education Classroom	3 SH

Nine semester hours selected from the following courses:

EDSP 402--Collaboration for the Exceptional Student	3 SH
EDSP 403--Assessment for the Diverse Learner	3 SH
EDSP 404--Instruction for the Exceptional Student	3 SH
EDSP 405--Literacy Intervention	3 SH

Linguistically Diverse Education Minor (ESL) 18 SH

An endorsement track is available for Regis College education students who minor in Linguistically Diverse Education in their undergraduate studies and want to use that coursework (12-22 semester hours) to apply toward a full endorsement in LDE after they graduate. Completion of an Academic Certificate of 12 semester hour in the Master of Arts in Education (MAE) program and passing the LDE PLACE test completes the LDE endorsement. Students recommended by the Education Department may start

their graduate endorsement courses while completing undergraduate coursework.

Prerequisites	*6 SH*
ED 204--Foundations of Education for Diverse Learners	3 SH
ED 302--Psychology for Educators	3 SH
Upper Division Requirements	*12 SH*
EDLD 403--Assessment of the Diverse Learner	3 SH
EDLD 451--Multicultural Perspectives	3 SH
EDLD 475--Linguistics for Teachers of Culturally Linguistically Diverse Students	3 SH
EDLD 485--Theories, Strategies, and Assessment for Culturally and Linguistically Diverse K-12	3 SH

NOTE: Student teaching in a classroom with second language learners is expected.

Literacy Minor

With the increasing need for teachers of all levels and content areas to be experts in literacy instruction, these courses are focused on literacy interventions, strategies, and literature. These courses focus on methods to assess and teach reading, writing, listening and speaking.

ED 204--Foundations of Education for Diverse Learners	3 SH
ED 302--Psychology for Educators	3 SH
Upper Division Requirements	*12 SH*
The Literacy Minor (Secondary Level)	
ED/EDLT 403B-- Secondary Literacy: Content, Instruction and Assessment	3 SH
EDLT 415--Young Adult Literature	3 SH
EDLT/EDLD 413--Teaching Literacy to English Language Learners	3 SH
EDLT/EDSP 405 --Literacy Intervention	3 SH
The Literacy Minor (Elementary Level)	
EDLT/EDLD 413--Teaching Literacy to English Language Learners	3 SH
EDLT/EDSP 405 --Literacy Intervention	3 SH
ED/EDLT 403A-- Elementary Reading and Writing: Content, Instruction, and Assessment	3 SH
ED/EDLT 447--Multicultural Literature and Literacy Across the Elementary Curriculum	3 SH

EDUCATION COURSE DESCRIPTIONS (ED)

ED 200. MATH FOR TEACHERS (2). Focuses on the development of basic competency in mathematics. Studies number systems and number sense, geometry, measurement, statistics, probability and functions, and use of variables to gain conceptual and computational skills in mathematics. Reviews mathematics to develop a basic competence. Pass/No Pass grading only. NOTE: Does not meet Core Studies requirements in Mathematics.

ED 204. FOUNDATIONS OF EDUCATION FOR DIVERSE LEARNERS (3). Surveys theory and practice in American education, based on analyses of current practices and future projections, historical contributions, philosophical approaches and sociological foundations. NOTE: Assignment to a Metro Denver area school for 15 hours of fieldwork required. NOTE: Assignment to a Metro Denver area school for 15 hours of fieldwork required.

ED 300. PHYSICAL AND CULTURAL GEOGRAPHY (3). Studies the influence of geographic factors on the development of civilization; the interrelations of physical features, resources, and people; including historical, political, and economic implications.

ED 302. PSYCHOLOGY FOR EDUCATORS (3). Applies principles of development and learning theory to classroom teaching within the context of Colorado Model Content Standards for Teachers. Key theory-to-practice topics include models of learning, achievement gap issues and instructional strategies, motivation, classroom management, teaching diverse students, and parent involvement. Coursework includes readings, lectures, dialogue, simulations, guest speakers, 15 hours as an instructional assistant in public school classrooms, written analyses of fieldwork data, and a research paper and presentation in class. Prerequisite(s): ED 204 and PY 250 and Sophomore standing. NOTE: Assignment to a Metro Denver area school for 15 hours of fieldwork required

ED 306. ASSESSMENT OF LEARNING (3). Provides an overview of assessment and instruction on the construction of reliable and valid instruments, including selected response and constructed response formats. Examines performance assessment and the construction of a body of evidence necessitated by Standards-Based Education. Prerequisite(s): ED 204 and ED 302. NOTE: Assignment to a Metro Denver area school for 15 hours of fieldwork required

ED 380E-W. FIELD WORK IN SCHOOLS (0). Students will complete thirty-five (35) hours as an intern in a school classroom. Work with children/adolescents is designed to connect coursework with classroom experience. School placement will be arranged by the Education Department. NOTE: Students should only register for one section of fieldwork in any given semester. Pass/No Pass grading only.

ED 401-498 UPPER DIVISION COURSES IN EDUCATION. IF FIELDWORK IS REQUIRED IN ANY 400-LEVEL EDUCATION COURSE, THE STUDENT MUST ALSO REGISTER FOR ED 380E-W--FIELDWORK IN SCHOOLS.

ED 401. TEACHING THE EXCEPTIONAL STUDENT IN THE GENERAL EDUCATION CLASSROOM (3). Focuses on philosophy and methodology of integrating exceptional children into regular classroom. Studies mental retardation, learning disabilities, behavior disorders, communication disorders, hearing and visual impairment, physical impairment and the gifted and talented. Includes techniques and methods of diagnosis, remediation, and individualization. Prerequisite(s): ED 204 and ED 302. Cross listing: EDSP 401.

ED 403A. ELEMENTARY READING AND WRITING: CONTENT, INSTRUCTION AND ASSESSMENT (3). Focuses on the significance of literary and models teachers use to foster literacy acquisition in contemporary elementary classrooms. Participants observe, demonstrate, and evaluate peers and their own literacy instruction within the context of comprehension, phonetic awareness, phonics, fluency, and vocabulary. Includes reading and writing instruction and integration of fiction and nonfiction literature that stimulates joyful reading and writing. Coursework includes readings, demonstrates, simulations, lectures, dialogue, group and individual presentations, 35 hours as an instructional assistant in public school classrooms, and written analyses of fieldwork data. Prerequisite(s): Official acceptance into Teacher Licensure Program by COTER required. Cross listing: EDLT 403A. NOTE: Fieldwork required.

ED 403B. SECONDARY LITERACY: CONTENT, INSTRUCTION AND ASSESSMENT (3). Participants build background knowledge and apply instructional strategies and assessments designed to promote students success as readers, writers, speakers, and listeners in middle school and high school classrooms. Coursework includes readings, demonstrations, discussions, 35 hours as an instructional assistant in public school classrooms, and written analyses of fieldwork data. Prerequisite(s): Official acceptance into Teacher Licensure Program by COTER required. Cross listing: EDLT 403B. NOTE: Fieldwork required.

ED 410. LANGUAGE, LITERACY AND LINQUISTICS FOR EDUCATORS (3). Applies scientific research to classroom practices of language study including phonetics, phonology, morphology, orthography, semantics, and syntax. Emphasizes spelling, grammar, handwriting, and designing instruction according to students assessed needs. Additional Prerequisite(s): ED 204, ED 302, and ED 306. Official acceptance into the Teacher Licensure Program by COTER required or Education minors who have successfully completed all prerequisites. Fieldwork required.

ED 417. ELEMENTARY STUDENT TEACHING (8-11). Students approved by the Committee on Teacher Education of Regis (COTER) student teach during the educational semester in an elementary school in the Metro Denver area under the direction of a cooperating teacher. Co-requisite(s): ED 495. Prerequisite(s): Completion of all education courses and COTER approval. Fee required. Pass/No Pass grading only. NOTE: 16 weeks in a school observing, assisting, planning, teaching, and conferring under the direction of the cooperating teacher required.

ED 417A. ELEMENTARY STUDENT TEACHING I (3-8). In collaboration with the Cooperating Teacher, the student teacher will gradually assume the responsibilities of a teacher in the classroom and school. A minimum of 640 hours of student teaching must be completed over the two semester experience. Schedule will be arranged with the Education Department. Fee required. Co-requisite(s): ED 495. Prerequisite(s): ED 418A, ED 418C, and ED 418B or ED 418D. Official acceptance into the Teacher Licensure Program by COTER required. NOTE: Student must complete ED 417A and ED 417B to be eligible for Colorado Licensure.

ED 417B. ELEMENTARY STUDENT TEACHING II (3-8). In collaboration with the Cooperating Teacher, the student teacher will gradually assume the responsibilities of a teacher in the classroom and school. A minimum of 640 hours of student teaching must be completed over the two semester experience. Schedule will be arranged with the Education Department. This course completes the second half of the student teaching requirement for licensure. Fee required. Co-requisite(s): ED 495. Prerequisite(s): ED 417A and permission of Education Department required. NOTE: Student must complete ED 417A and ED 417B to be eligible for Colorado Licensure.

ED 418. WELLNESS: A PERSONAL COMMITMENT (3). Studies the concepts of physical, social, emotional, intellectual, and spiritual wellness, developing an information base from which to make effective decisions. Prerequisite(s): Junior standing. Cross listing: PE 418.

ED 418A. ELEMENTARY SCIENCE: CONTENT, INSTRUCTION, AND ASSESSMENT (2). Surveys methods, materials, and concepts related to the teaching of the various sciences. Combines the knowledge of content areas emphasizing the skills and approaches pertinent to the field. Co-requisite: ED 418D. NOTE: Fieldwork required.

ED 418B. ELEMENTARY MATH: CONTENT, INSTRUCTION, AND ASSESSMENT (2). Surveys methods and materials appropriate to teaching mathematics (material methods and content, and computers). Combines the knowledge of content area emphasizing the skills and approaches pertinent to the field. Co-requisite: ED 418C. NOTE: Official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 418C. ELEMENTARY LANGUAGE ARTS: CONTENT, INSTRUCTION, AND ASSESSMENT (2). Using the Colorado Model Content Standards, participants examine links between writing, reading comprehension, oral language, listening, and speaking. Focuses on writing instruction and assessment in establishing a writing community, becoming writers as teachers, and providing writing instruction based on assessment of students needs. Coursework includes readings, demonstrations, simulations, discussion, 35 hours as an instructional assistant in public school classrooms, and written analyses of fieldwork data. Co-requisite: ED 418B. NOTE: official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 418D. ELEMENTARY SOCIAL STUDIES: CONTENT, INSTRUCTION, AND ASSESSMENT (2). Surveys methods, materials, and concepts related to teaching social studies. Combines the knowledge of content area emphasizing the skills and approaches pertinent to the filed. Co-requisite: ED 418A. NOTE: official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 421. SECONDARY ENGLISH CONTENT, INSTRUCTION, AND ASSESSMENT (3). Presents the materials, methods, and practices in secondary English courses. Analyzes grammar, composition, the short story, the novel, drama, poetry, and communications. NOTE: Official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 425. SECONDARY FOREIGN LANGUAGE CONTENT, INSTRUCTION, AND ASSESSMENT (3). Studies methods of teaching a foreign language (French, German, or Spanish) at the secondary level. NOTE: Official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 427. SECONDARY MATHEMATICS CONTENT, INSTRUCTION, AND ASSESSMENT (3). Examines methods and materials appropriate for teaching junior and senior high school mathematics. Emphasizes classroom, small group and individualized instruction, and new curricular approaches. NOTE: Official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 427A. SECONDARY BUSINESS CONTENT, INSTRUCTION, AND ASSESSMENT (3). Examines methods and materials appropriate for teaching junior and senior high school accounting, bookkeeping, consumer law and economics. Emphasizes specific classroom applications related to non-clerical business courses. NOTE: Official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 429. SECONDARY SCIENCE CONTENT, INSTRUCTION, AND ASSESSMENT (3). Methods and materials appropriate for teaching junior and senior high school science. Attention given to classroom, laboratory, small group and individualized instruction and new curricular approaches. NOTE: Official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 431. SECONDARY SOCIAL STUDIES CONTENT, INSTRUCTION, AND ASSESSMENT (3). Adapts history, political science, economics, sociology, cultural geography, social psychology, and cultural anthropology to meaningfulness within the secondary Curriculum. Presents pedagogical procedures including lecture, discussion, field trips, resource specialists, and audio-visual aids. Explains integrating current events for curricular relevance. NOTE: Official acceptance into Teacher Licensure Program by COTER required. Fieldwork required.

ED 433. K-12 ART CONTENT, INSTRUCTION, AND ASSESSMENT (3). Explores and applies theoretical and practical issues in designing and implementing a K-12 art education program. Emphasizes current trends in art education; materials and methods of teaching and assessing various art media; and curriculum development. NOTE: Official acceptance to the Teacher Licensure Program by COTER required.

ED 433B. K-12 MUSIC CONTENT, INSTRUCTION, AND ASSESSMENT (3). Explores and applies theoretical and practical issues in designing and implementing a K-12 music education program. Emphasizes current trends in music education; materials and methods of teaching and assessing a variety of music formats; and curriculum development. NOTE: Official acceptance to the Teacher Licensure program by COTER required.

ED 434. SECONDARY STUDENT TEACHING (8-11). Students approved by the Committee on Teacher Education of Regis (COTER) student teach during the educational semester in a secondary school in the Denver Metro area under the direction of a cooperating teacher. Co-requisite(s): ED 495. Prerequisite(s): COTER approval. Fee required. NOTE: 16 weeks in a school observing, assisting, planning, teaching, and conferring under the direction of the cooperating teacher required. Pass/No Pass grading only.

ED 434A. SECONDARY STUDENT TEACHING I (3-8). In collaboration with the Cooperating Teacher, the student teacher will gradually assume the responsibilities of a teacher in the classroom and school. A minimum of 640 hours of student teaching must be completed over the two semester experience. Schedule will be arranged with the Education Department. Fee required. Prerequisite(s): ED 435 or ED 421, ED 427, ED 427A, ED 429A, and ED 431 or ED 433. Official acceptance to the Teacher Licensure program by COTER required. NOTE: Student must complete ED 434A and ED 434B to be eligible for Colorado Licensure.

ED 434B. SECONDARY STUDENT TEACHING II (3-8). In collaboration with the Cooperating Teacher, the student teacher will gradually assume the responsibilities of a teacher in the classroom and school. A minimum of 640 hours of student teaching must be completed over the two semester experience. Schedule will be arranged with the Education Department. This course completes the second half of the student teaching requirement for licensure. Fee required. Prerequisite(s): ED 434A and permission of Education Department required. NOTE: Student must complete ED 434A and ED 434B to be eligible for Colorado Licensure.

ED 435. SECONDARY CURRICULUM PLANNING AND CLASSROOM MANAGEMENT (3). Provides students with knowledge and skills needed for effective classroom management and planning in a Standards-Based environment. Student demonstrates mastery of short and long-term planning, time management, and research-driven methods to improve and report student achievement, and develop instructional and behavioral expectations for the successful classroom. NOTE: Acceptance in Teacher Licensure Program by COTER required. Fieldwork required.

ED 436. TECHNOLOGY IN THE CLASSROOM (2). Examines a variety of new and emerging technologies and information related to these technologies. Develops an understanding of integrating technology with the use of technology in the classroom or laboratory environment. Acquaints students with the personal computer and a variety of educational software packages. NOTE: Required for students seeking teacher licensure. Pass/No Pass grading only.

ED 438. K-12 STUDENT TEACHING (8-11). Students approved by the Committee on Teacher Education at Regis (COTER) student teach during the educational semester in an elementary and secondary placement in the Metro Denver area under the direction of a cooperating teacher. Co-requisite: ED 495. NOTE: Completion of all education courses and COTER approval. Sixteen weeks in a school observing, assisting, planning, teaching, and conferring under the direction of the cooperating teacher required. Senior standing required. Pass/No Pass grading only.

ED 439. PRACTRICUM : CULTURALLY AND LINGUISTICALLY DIVERSE (1). 20 hours field work with CLD learners. Co-requisite: ED 495.

ED 447. MULTICULTURAL LITERATURE AND LITERACY ACROSS THE ELEMENTARY CURRICULUM (3). Explores historical and contemporary literature for children in America. Examines literature representing various genres that teachers use in elementary classrooms. Coursework includes readings, demonstrations, discussions, field trips and written analyses of fieldwork data. Prerequisite(s): Education Majors and Minors only. Junior standing required. Cross listing: EDLT 447. NOTE: Fieldwork required.

ED 485. THEORIES, STRATEGIES, AND ASSESSMENT FOR CULTURALLY AND LINGUISTICALLY DIVERSE K-12 (3). Provides research-based methods and strategies for teaching English as a Second Language to speakers of other languages. Explores curriculum materials appropriate to the development of English as a Second Language. Examines process learning as it applies to ESL in content areas. Discusses and demonstrates specific teaching methodology including natural learning and sheltered approaches to develop academic English. Co-Requisite: ED 439. Cross listing: EDLD 485.

ED 490E-W. INDEPENDENT STUDY IN EDUCATION (1-3). Pursues independent exploration of areas of interest under the supervision of a department member. Prerequisite(s): Approval of department chair.

ED 495. STUDENT TEACHER SEMINAR (1). Examines current educational practices, addresses student teaching issues, classroom management, Teacher Work Sample and Teacher Portfolio. Co-requisite: ED 417 or ED 434. Prerequisite(s): Senior standing. NOTE: Approval by COTER required.

ED 498E-W. INTERNSHIP IN EDUCATION (3). Provides internships in education taken under the supervision of a department member. Prerequisite(s): Approval of department chair and director of Academic Internship Program.

EDUCATION: LINGUISTICALLY DIVERSE EDUCATION (EDLD)

EDLD 403. ASSESSMENT OF THE DIVERSE LEARNER (3). Explores the principles, purposes, and processes of assessment used in the evaluation of exceptional learners and English language learners. Includes how assessment results can be used to develop appropriate educational programs for diverse students. Prerequisite(s): ED 401 or EDSP 401 and ED 485. Cross listing: EDSP 403.

EDLD 413. TEACHING LITERACY TO ENGLISH LANGUAGE LEARNERS (3). Designed for teachers who desire to increase their knowledge of the development of reading literacy skills for all students, with a focus on ELLs. Examines specific research-based strategies to teaching reading based on Colorado State Standards, while adhering to constructive principles. Students consider the similarities and differences of teaching reading to native and non-native speakers of English emphasizing the importance of family literacy in teaching reading to ELLs. Prerequisite(s): ED 485, EDLD 485 or permission of instructor required. Cross listing: EDLT 413.

EDLD 433A. CULTURE IN CONTEXT (1). Involves travel to Costa Rica for two weeks, full immersion into the language and culture, and reflection on the stages of cultural and language acquisition. Students will compare their real-life experiences in Costa Rica to educational theories in cultural and language acquisition.

EDLD 451. MULTICULTURAL PERSPECTIVES (3). Explores and reflects on multicultural perspectives, issues of social justice, and societal structures which impact the success of individual students and programs. Investigates and discovers threads that tie diverse cultures together through literature and discusses the implications of these discoveries for their own attitudes. NOTE: Participation in the community-based cultural and language acquisition program required.

EDLD 475. LINGUISTICS FOR TEACHERS OF CULTURALLY AND LINGUISTICALLY DIVERSE STUDENTS (3). Provides the learner with information concerning first and second language acquisition theory. Explores the structure and function of the English language including linguistics, applied linguistics, psycholinguistics, and sociolinguistics. Instructional practices for teaching English to speakers of other languages will be reviewed. Process learning as it applies to the acquisition of the English language will be explored and modeled. Prerequisite(s): ED 485 or permission of instructor required.

EDLD 485. THEORIES, STRATEGIES, AND ASSESSMENT FOR CULTURALLY AND LINGUISTICALLY DIVERSE K-12 (3). Provides research-based methods and strategies for teaching English as a Second Language to speakers of other languages. Explores curriculum materials appropriate to the development of English as a Second Language. Examines process learning as it applies to ESL in content areas. Discusses and demonstrates specific teaching methodology including natural learning and sheltered approaches to develop academic English Co-Requisite: ED 439. Cross listing: ED 485. NOTE: Field component of 20 hours required.

EDLD 490E-W. INDEPENDENT STUDY: LINGUISTICALLY DIVERSE EDUCATION (1-6). Pursues independent exploration of areas of interest under the supervision of faculty. Prerequisite(s): Permission of instructor required.

EDUCATION: LITERACY (EDLT)

EDLT 403A. ELEMENTARY READING AND WRITING: CONTENT, INSTRUCTION, AND ASSESSMENT (3). Focuses on the significance of literary and models teachers use to foster literacy acquisition in contemporary elementary classrooms. Participants observe, demonstrate, and evaluate peers and their own literacy instruction within the context of comprehension, phonetic awareness, phonics, fluency, and vocabulary. Includes reading and writing instruction and integration of fiction and nonfiction literature that stimulates joyful reading and writing. Coursework includes readings, demonstrates, simulations, lectures, dialogue, group and individual presentations, 35 hours as an instructional assistant in public school classrooms, and written analyses of fieldwork data. Prerequisite(s): ED 204, ED 302, and official acceptance into Teacher Licensure Program by COTER required. Cross listing: ED 403A. NOTE: Fieldwork required.

EDLT 403B. SECONDARY LITERACY: CONTENT, INSTRUCTION AND ASSESSMENT (3). Participants build background knowledge and apply instructional strategies and assessments designed to promote students success as readers, writers, speakers, and listeners in middle school and high school classrooms. Coursework includes readings, demonstrations, discussions, 35 hours as an instructional assistant in public school classrooms, and written analyses of fieldwork data. Prerequisite(s): ED 204, ED 302, and official acceptance into Teacher Licensure Program by COTER required. Cross listing: ED 403B. NOTE: Fieldwork required.

EDLT 405. LITERACY INTERVENTIONS (3). Focuses on research-based approaches, strategies, assessment tools and issues related to effective literacy instruction for student performing significantly below grade level. Explores and evaluates individual reading and writing programs for students with the most challenging literacy needs. Students will also learn about reading disabilities and relationships of those disabilities to literacy development. Utilizes appropriate assessments to evaluate student needs and determine next steps for literacy interventions and instruction within the general education/content area classroom. Prerequisite(s): ED 204 and ED 302. Cross listing: EDSP 405.

EDLT 413. TEACHING LITERACY TO ENGLISH LANGUAGE LEARNERS (3). Designed for teachers who desire to increase their knowledge of the development of reading literacy skills for all students, with a focus on ELLs. Examines specific research-based strategies to teaching reading based on Colorado State Standards, while adhering to constructive principles. Students consider the similarities and differences of teaching reading to native and non-native speakers of English emphasizing the importance of family literacy in teaching reading to ELLs. Prerequisite(s): ED 485, EDLD 485 or permission of instructor required. Cross listing: EDLD 413.

EDLT 415. YOUNG ADULT LITERATURE (3). Examines a range of literature for young adults, with emphases on interpretation and pedagogy. Relates structural and thematic elements to the personal and academic development of adolescents, and explores ways to weave this literary genre into the fabric of secondary content area classes. Students will construct thematic units and lessons in a standards-based, assessment driven environment. Prerequisite(s): ED 204 and ED 302.

EDLT 447. MULTICULTURAL LITERATURE AND LITERACY ACROSS THE ELEMENTARY CURRICULUM(3). Explores historical and contemporary literature for children in America. Examines literature representing various genres that teachers use in elementary classrooms. Coursework includes readings, demonstrations, discussions, field trips and written analyses of fieldwork data. Prerequisite(s): Education Majors and Minors only. Junior standing required. Cross listing: ED 447. NOTE: Fieldwork required.

EDUCATION: SPECIAL EDUCATION (EDSP)

EDSP 401. TEACHING THE EXCEPTIONAL STUDENT IN THE GENERAL EDUCATION CLASSROOM (3). Focuses on philosophy and methodology of integrating exceptional children into regular classroom. Studies mental retardation, learning disabilities, behavior disorders, communication disorders, hearing and visual impairment, physical impairment and the gifted and talented. Includes techniques and methods of diagnosis, remediation, and individualization. Prerequisite(s): ED 204 and ED 302. Cross listing: ED 401.

EDSP 402. COLLABORATION FOR THE EXCEPTIONAL STUDENT (3). Provides students with the knowledge and skills needed to work with others to develop successful inclusive education programs. Includes working with parents, special educators, and related services personnel on behalf of exceptional students. Prerequisite(s): ED 401 or EDSP 401. NOTE: Admission to the Department not required for students intending to Minor in Special Education.

EDSP 403. ASSESSMENT FOR THE DIVERSE LEARNER (3). Explores the principles, purposes, and processes of assessment used in the evaluation of exceptional learners and English language learners. Includes how assessment results can be used to develop appropriate educational programs for diverse students. Prerequisite(s): ED 401 or EDSP 401 and ED 485. Cross listing: EDLD 403. NOTE: Admission to the Department not required for students intending to minor in Special Education.

EDSP 404. INSTRUCTION FOR THE EXCEPTIONAL STUDENT (3). Examines educational strategies and relevant research to address the skill deficits (language arts and mathematics) manifested in students with exceptionalities. Includes general classroom accommodations for exceptional students. Prerequisite(s): ED 401 or EDSP 401. NOTE: Admission to the Department not required for students intending to minor in Special Education.

EDSP 405. LITERACY INTERVENTIONS (3). Focuses on research-based approaches, strategies, assessment tools and issues related to effective literacy instruction for student performing significantly below grade level. Explores and evaluates individual reading and writing programs for students with the most challenging literacy needs. Students will also learn about reading disabilities and relationships of those disabilities to literacy development. Utilizes appropriate assessments to evaluate student needs and determine next steps for literacy interventions and instruction within the general education/content area classroom. Prerequisite(s): ED 204 and ED 302. Cross listing: EDLT 405.

EDSP 490E-W. INDEPENDENT STUDY IN SPECIAL EDUCATION (1-6). Pursues independent exploration of areas of interest under the supervision of faculty. Prerequisite(s): Permission of instructor required.

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ENGLISH

Dr. Mark Bruhn, Professor, Chairperson

Dr. Eleanor Swanson, Professor

Dr. David Hicks, Associate Professor

Dr. Joanne Karpinski, Associate Professor

Dr. Lara Narcisi, Associate Professor

Dr. Daryl Palmer, Associate Professor

Dr. Scott Dimovitz, Assistant Professor

Dr. Morgan Reitmeyer, Assistant Professor, Director of the Writing Program

DEPARTMENTAL INFORMATION

The English major is designed to offer a broad and balanced approach to the discipline. Course requirements are flexibly structured to emphasize genres, periods, and a diversity of literary traditions. Major requirements provide a substantive foundation upon which to base further reading and critical inquiry. Courses focus not only on primary texts, but on essential cultural, historical, and theoretical contexts as well.

Each student in the major works closely with a departmental advisor to develop a plan of study compatible with the individual's goals for graduation or professional school and employment.

English Major	**36 SH**
Lower Division Requirements	*9 SH*
EN 300--Literary Analysis	3 SH
EN 323--American Literature: Survey to 1865 or EN 353--British Literature: Survey to 1789	3 SH
EN 324--American Literature: Survey 1865 to Present or EN 354--British Literature Survey 1789 to Present	3 SH
Upper Division Requirements	*27 SH*
Twenty-seven upper division semester hours of English courses, which must include:	
British literature	3 SH
American literature	3 SH
One course on genre*	3 SH
One course on theme*	3 SH
One course on author*	3 SH
One course on period*	3 SH
Capstone*	3 SH

Upper division English electives (selected with the approval of the major advisor). One elective course may focus on the literature of another culture. 6 SH

* Classification of courses according to genre, theme, author, period, and major's seminar is detailed on the majors advising sheet available in the English Department.

Honors-in-English Major Requirements

In addition to the major requirements listed previously, students who complete the following requirements may graduate with an Honors-in-English major:

1. Candidacy approved by the English faculty.
2. Thirty-three upper division semester hours of English, which must include the courses required for an English major plus an additional three semester hour upper division course to be selected with the approval of the major advisor.
3. Successful completion of a supervised thesis and an oral defense of this thesis before a faculty committee. The honors thesis will be prepared and submitted according to the following schedule:
   a. Selection of thesis advisor and submission of preliminary thesis proposal no later than October 15th for May graduates (February 15th for December graduates).
   b. A one-page formal prospectus approved by the thesis advisor and submitted for departmental approval no later November 1st for May graduates (March 1st for December graduates).
   c. Submission of full draft to advisor and reader by March 1st for May graduates (October 15th for December graduates).
   d. Revised draft by April 1st (November 15th for December graduates) based on revisions recommended by advisor and reader. Resulting defense draft should be 30-50 pages long.
   e. Schedule thesis defense no later than April 15th (November 30th for December graduates).

English Minor 12 SH

Upper Division Requirements *12 SH*

Twelve upper division semester hours of English courses selected with the approval of the major advisor.

Writing Minor 12 SH

The English Department offers a writing minor for students not majoring in English. The upper division courses that fulfill the requirements of the writing minor are open to any qualified Regis student. The minor is intended to serve the needs of all majors, but in particular, majors in Business Administration, Communication, natural science, and social science, for whom the ability to write well in graduate school or a career will be of particular importance.

Upper Division Requirements *12 SH*

Twelve semester hours selected from the following:

EN 412--Rhetoric: The Art of Persuasive Writing	3 SH
EN 482A--Creative Writing: Fiction	3 SH
EN 482B--Creative Writing: Poetry	3 SH
EN 482C--Creative Writing: Advanced Fiction	3 SH
EN 498E-W–Internship in Writing	3 SH
COM 475--In-Depth News Reporting and Writing	3 SH

* Communication majors may not take Communication courses towards the writing minor.

ENGLISH COURSE DESCRIPTIONS (EN)

EN 203. INTERMEDIATE COMPOSITION (3). Studies expository writing. Concentrates on critical and argumentative essays of 500-1,000 words. NOTE: Reasonable competency in basic writing and word processing required.

EN 250/EN 250C. LITERATURE MATTERS (3). Introduces the literary genres of poetry, fiction, and drama, with an emphasis on works that have had a profound influence on our world. Students will write a series of analytical essays, including at least one research essay. Prerequisite(s): RCC 200. NOTE: EN 250C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

EN 250H. HONORS LITERATURE MATTERS (3). Undertakes detailed analysis of poetry, pose, and drama; offers students the opportunity to research a specific area of study. Explores aesthetic, ethical, and social values. Students engage texts through inquiry, critical thinking, analysis, and evaluation. NOTE: Honors students only.

EN 308E-W. MULTICULTURAL LITERATURE (3). Seeks to balance a study of the traditionally received literary canon with literature representing ethnic, religious, racial, and/or cultural diversity. Focuses on works representing various ethnic and/or cultural groups in America, on works representing international cultural diversity and/or on works representing the so-called "majority" viewpoint regarding cross-cultural insights and experiences. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 311E-W. THEMATIC STUDIES IN LITERATURE (3). Involves reading fiction, poetry and drama organized around a particular theme, such as "Literature of the American Southwest," "Environmental Literature," or "The Literature of Social Change." Emphasizes reading, writing, speaking and listening. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 313. DRAMA (3). Introduces drama in the Western literary tradition, emphasizing the conventions, types, and literary elements of the genre. Approaches the subject from a chronological, thematic, or multicultural perspective, and offers opportunities to improve competencies in critical thinking and writing. Dramatists such as Sophocles, Shakespeare, Moliere, Ibsen, Shaw, Beckett, O'Neill, and Wilson are studied. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 314E-W. NOVEL (3). Introduces the novel and/or novella. Emphasizes the beginning and subsequent history of the genre, including a broad range of American, English and Continental writers. Improves writing and analytical skills. Includes study of such authors as Jane Austen, Thomas Hardy, Herman Melville, Henry James, Franz Kafka, Nathaniel Hawthorne, Ernest Hemingway, and William Faulkner. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 315. LOVE, LOSS, AND MADNESS: THE AMERICAN SHORT STORY (3). Introduces short fiction drawn from a broad range of American writers. Emphasizes the beginning and subsequent history of the short story. Improves writing and analytical skills. Includes the works of such writers as Nathaniel Hawthorne, Ernest Hemingway, William Faulkner, Joyce Carol Oates, James Baldwin and Kate Chopin. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 316E-W. POETRY (3). Introduces poetry drawn from a broad range of traditional and contemporary American and English poets, as well as non-English-language poetry in translation. Emphasizes the various themes, forms, and literary elements that characterize the genre. Improves competencies in critical thinking and writing. Includes study of one or more kinds of poetry (lyric, narrative, epic, etc.).

EN 317. SHORT STORIES: THE STORY AND ITS WRITER (3). Introduces short fiction drawn from a broad range of American, English, and Continental writers. Emphasizes the beginning and subsequent history of the short story. Improves writing and analytical skills. Includes the works of such authors as Henry James, Nathaniel Hawthorne, Ernest Hemingway, William Faulkner, Joyce Carol Oates, James Baldwin, Kate Chopin, Jorge Luis Borges, and Toni Cade Bambera. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 321. MYTH AND CULTURE IN LITERATURE (3). Introduces the meaning and function of myth and its application to literature as symbol, metaphor, and structure. Examines such works as Homer's Iliad, Christopher Marlowe's The Tragical History of Dr. Faustus, and Shakespeare's A Midsummer Night's Dream, selections from Milton's Paradise Lost as well as modern poems and short stories using myth as reference. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250. Cross listing: WGS 321.

EN 323. AMERICAN LITERATURE SURVEY TO 1865 (3). Surveys significant works of American literature from first exploration to the end of the Civil War. Examines representative authors literary works, styles, and movements within a historical context. Includes authors such as Bradstreet, Irving, Poe, Hawthorne, Emerson, Thoreau, Whitman, and Dickinson. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250. Note: Recommended for English Majors.

EN 324. AMERICAN LITERATURE SURVEY 1865-PRESENT (3). Surveys significant works of American literature from the end of the Civil War to the present. Examines representative authors, literary works, styles, and movements within a historical context. Includes authors such as Twain, James, Frost, Eliot, Hemingway, and Morrison. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 328. WORLD LITERATURE (3). Introduces in English translation significant poetry, short stories, novels, and drama from a broad range of world literature. Explores both universality and the diversity of cultures, themes, forms, and structures. Emphasizes different literary paradigms and methods for appreciating and analyzing these literary works. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 341. CATHOLIC LITERATURE (3). Traverses literary history to explore the questions "Who might be considered a Catholic writer?" and "What is the difference between Catholicism as an iconic presence in a text and as a literary sensibility?" Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250. Cross listing: CAS 341 and HO 3481.

EN 353. BRITISH LITERATURE SURVEY TO 1789 (3). Surveys significant works of British literature from the Old English period to the eighteenth century. Examines representative authors, literary works, styles, and movements within a historical context. Includes such authors as Chaucer, Shakespeare, Milton, Behn, and Johnson. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250 NOTE: English Majors only..

EN 354. BRITISH LITERATURE SURVEY 1789-PRESENT (3). Surveys significant works of British literature from the Romantics to the present. Examines representative authors, literary works, styles, and movements within a historical context. Includes such authors as Coleridge, Wordsworth, Keats, Tennyson, Browning, Yeats, Eliot, and Heaney. Prerequisite(s): CCS 200 or RCC 200 and EN 210 or EN 250.

EN 410E-W. WOMEN IN LITERATURE (3). Surveys women's literary achievement, or focuses on a particular historical period or cultural milieu, ethnographic perspective or social theme. Examines literary and critical works focusing on women's viewpoints in social, cultural, economic, and aesthetic contexts. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250, or WGS 400 and one 300-level English course. Cross listing: WGS 410E-W.

EN 412. RHETORIC: THE ART OF PERSUASIVE WRITING (3). The study of classical rhetoric, the art of persuasion. Focuses on organizational and stylistic techniques used by great writers to inform and persuade audiences. Course is writing-intensive. Prerequisite(s): EN 210 or EN 250 and one 300-level English course.

EN 415. LOVE, LOSS, AND MADNESS: THE AMERICAN SHORT STORY (3). Examines and discusses American short fiction from early authors such as Hawthorne, Thoreau, Melville, Poe, and contemporary authors such as Alexie, Le Guin, and Russo. Prerequisite(s): EN 210 or EN 250 and one 300-level English course.

EN 422. MYTHIC THEMES IN CONTEMPORARY LITERATURE (3). Introduces the narrative, metaphorical and symbolic functions through which myth communicates the sacred truths of a culture. Emphasis on Graeco-Roman and Judeo-Christian themes that inflect the Western literary tradition. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 423E-W. INTERDISCIPLINARY STUDIES IN AMERICAN LITERATURE (3). Examines themes in American literature from an interdisciplinary perspective. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 425E-W. AMERICAN LITERATURE TO 1865 (3). Involves concentrated reading and analysis of a single theme, a single author or combination of authors or a single literary period or movement (e.g., Hawthorne and Melville, Whitman and Dickinson, The American Renaissance, Early American Women Writers). Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 426E-W. AMERICAN LITERATURE 1865-1918 (3). Provides an opportunity for concentrated reading and analysis of a single theme, a single author or combination of authors or a single literary period or movement (e.g., Twain, American Realism and Naturalism, Multi-Cultural Literature before World War I). Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 427E-W. AMERICAN LITERATURE 1918-PRESENT (3). Involves concentrated reading and analysis of a single theme, a single author or combination of authors, or a single literary period or movement (e.g., Hemingway, The Harlem Renaissance, and The Postmodernist Novel). Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 428. AMERICAN LITERATURE IN THE ATOMIC AGE (3). Examines American literature in the aftermath of World War II, focusing on the paranoia and fragmentation of the atomic age. Authors include Bellow, Kerouac, Pynchon, Nabokov, Vonnegut, DeLillo. Prerequisite(s): RCC 200 or CCS 200, EN 210 or EN 250, and one 300-level English course.

EN 430. FAULKNER (3). Read the greatest works of fiction from one of the greatest American writers. Includes Sound and the Fury, Absalom, Absalom!, Light in August, and As I Lay Dying, among others. Prerequisite(s): RCC 200 or CCS 200, EN 210 or EN 250, and one 300-level English course.

EN 431. CHAUCER (3). Involves the reading and analysis of The Canterbury Tales in the original Middle English, and similar study of other major poems by Chaucer. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 432E-W. SHAKESPEARE: (3). Involves the study of Shakespeare's poetry, plays, life, and age. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course. Cross listing: PJ 432E-W.

EN 433. JAMES JOYCE (3). Studies James Joyce's works, including Dubliners, A Portrait of the Artist as a Young man, and Ulysses. Prerequisite(s): EN 250 and one 300-level English course.

EN 439. CONTEMPORARY LITERATURE (3). Examines novels in contemporary fiction and other genres. Includes works by such authors as Franzen, DeLillo, Auster, Murakami, Zadie Smith, Chabon, Morrison, Lahiri, Nabokov, and Alexie. Prerequisite(s): EN 210 or EN 250 and one 300-level English course.

EN 446. THE 17TH CENTURY (3). Surveys the later Renaissance, Commonwealth, and Restoration eras, including representative works of Metaphysical, Cavalier, and/or Restoration poets, Jacobean and/or Restoration playwrights, and/or the prose stylists of the period. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 447. AUSTEN (3). Studies the works of Jane Austen. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 449. 18TH CENTURY NOVEL (3). Studies representative novels of the period, reflecting the dominant genres such as Realistic, Sentimental, and Gothic. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course. Cross listing: WGS 449.

EN 450. ROMANTICISM (3). Studies representative fiction and poetry from the first half of the 19th century. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 451. DICKENS (3). Involves the study of Dickens' novels, life and times. Prerequisite(s): CCS 200 or CCS 200 or RCC 200, EN 210 or EN 250, and one 300-level English course.

EN 452. WILLIAM WORDSWORTH (3). Covers William Wordsworth, the most influential poet of the British Romantic period. Includes readings from Wordsworth's major publications, including Lyrical Ballads and The Prelude, a biography and criticism from Coleridge to Hartmam. Prerequisite(s): CCS 200 or CCS 200 or RCC 200, EN 210 or EN 250, and one 300-level English course.

EN 453. BRITISH MODERNISMS (3). Examines literature in the British Isles from 1900 to 1950. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 454. LINGUISTIC APPROACHES TO LITERATURE (3). Introduces historical and comparative linguistics, semantics, syntax, phonology, stylistics, and pragmatics, and emphasizes their application in the analysis of literary texts. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250, one 300-level English course, and one 400-level English course. NOTE: Junior standing or permission of instructor.

EN 455. VICTORIAN LITERATURE (3). Involves reading and analysis of such novelists as Bronte, Eliot, and Hardy; such essayists as Carlyle, Mill, and Arnold; and such poets as Tennyson, Browning, and the Pre-Raphaelites. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 457. 20TH CENTURY IRISH LITERATURE (3). Studies Irish writers of the 20th century including Shaw, Yeats, Joyce, Synge, O'Casey and Beckett. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 460. MODERN POETRY (3). Involves the reading and analysis of such major poets as Auden, Eliot, Frost, Hopkins, Pound, Stevens, Thomas, Williams, and Yeats. Considers minor poets of the modern period and contemporary poets. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 462. CONTEMPORARY DRAMA (3). Involves the reading and analysis of 20th century plays, from realism and symbolism, through absurdism, to recent trends in drama. Representative writers include Chekhov, Beckett, Brecht, Williams, Wilson, and Henley. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 463. CONTEMPORARY FICTION (3). Studies representative novels written between World War II and the present, focusing on movements and styles characteristic of this era. Representative writers include Garcia-Marquez, Morrison, Gordimer, Kingsolver, and Eggers. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 464. POSTCOLONIAL WORLD LITERATURE (3). Investigates writings in and about previously colonized countries throughout the 20th century, paying close attention to the lingering effects of colonialism on the writing of the time. Literature includes works from India, the Caribbean, Africa, and Latin America. Prerequisite(s): RCC 200 or CCS 200, EN 210 or EN 250, and one 300-level English course.

EN 466. LITERARY THEORY (3). Surveys the varied approaches to literary study applied by scholars, attends to the differences in textual interpretation that result from the application of these approaches, and evaluates what these approaches reveal and conceal about literary texts. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250, one 300-level English course, and one 400-level English course.

EN 474E-W. COMPARATIVE LITERATURE (3). Studies significant works in English translations in the context of their interrelation with various traditions in English and American literature.

EN 482A. CREATIVE WRITING: FICTION (3). Provides a workshop in fiction emphasizing discussion of students' fiction. Includes analysis of the elements of fiction and techniques used by a variety of modern and contemporary writers. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 482B. CREATIVE WRITING: POETRY (3). Provides a workshop in poetry writing emphasizing the discussion of students' poetry. Includes analysis of the elements of poetry and techniques used by a variety of modern and contemporary writers. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 482C. CREATIVE WRITING: ADVANCED FICTION (3). Advanced instruction in craft of fiction; professional perspectives on the art in the context of rigorous criticism. In workshop format, students practice the genre, further define it, examine its many forms, and receive professional peer review. Prerequisite(s): RCC CCS 200 or RCC 200, EN 210 or EN 250, one 300-level English course, and EN 482A or permission of instructor.

EN 490E-W. INDEPENDENT STUDY (1-3). Develops independent exploration of areas of interest under the direction of a department member. Prerequisite(s): Approval of department chair. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 492E-W. SPECIAL TOPICS IN LITERATURE (3). Involves the reading and analysis of selected topics in literature. Focuses on selected literary issues, periods, or theoretical problems (e.g., After the Apocalypse, Writing in the Nuclear Age, Teaching Banned Books, and The Small Town in Literature). Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 495E-Z. THEMES IN LITERATURE (3). Provides an opportunity for concentration on a single theme, a single author, or combination of authors in an intensive study (e.g., Africa in Literature, Faulkner, and Literature of the Unconscious). Prerequisite(s): Majors and minors only. Junior standing. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course.

EN 498E-W. INTERNSHIP IN WRITING (3). Credit may be earned for employment in which the student is responsible for various kinds of writing and in which there is an integration of practical experience and academic guidance. Prerequisite(s): Approval of department chair and director of Academic Internship Program. NOTE: Students may obtain as many as six (6) semester hours of credit, but only three (3) semester hours may be applied to the English major.

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ENVIRONMENTAL STUDIES

Dr. Catherine Kleier, Program Director

Interest in environmental issues, such as resource depletion, habitat destruction, biological extinction, global economic development, and urbanization, is expanding. The Environmental Studies program focuses on these and other environmental issues from an interdisciplinary perspective. This program offers two majors, a Bachelor of Science in Environmental Science and a Bachelor of Arts in Environmental Studies, as well as a minor in Environmental Studies.

The Bachelor of Science in Environmental Science major emphasizes the natural sciences in understanding the environment and environmental issues. This degree program is recommended for students considering careers or further education in wildlife management, environmental health, science secondary education, environmental biology, environmental engineering, or forestry.

The Bachelor of Arts in Environmental Studies major emphasizes the interdisciplinary nature of the fields of environmental studies. This degree program is recommended for students considering careers or further education in environmental law, environmental sociology, environmental economics, environmental policy, secondary education, or environmental journalism.

Bachelor of Science in Environmental Science Major 48 SH

Students pursuing this degree are required to complete a companion major or minor in one of the following areas: Biology, Biochemistry, Chemistry, Computer Science, Mathematics, Neuroscience, Physics, or Secondary Education.

Lower Division Requirements	*29 SH*
BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic	3 SH
BL 263--Organismic Biology Laboratory	1 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
ENVS 250--Introduction to Environmental Science	3 SH
ENVS 251--Introduction to Environmental Science Laboratory	1 SH
GE 208--Introduction to Geology	3 SH
GE 209--Introduction to Geology Laboratory	1 SH

One of the following statistics courses:

- MT 270/MT 270C--Introduction to Statistics 3 SH
  MT 272/MT 272C--Statistics for the Life Sciences 3 SH
  MT 370--Intermediate Statistics 3 SH
  MT 470A--Mathematical Statistics I 3 SH

Upper Division Requirements *19 SH*

Ethics Elective Requirement ***3 SH***

Students must complete a minimum of one of the following courses in environmental ethics:*

ENVS 415--Environmental Ethics 3 SH

RT 401E--Eco-Theology 3 SH

Social Science Elective Requirement ***6 SH***

Students must complete a minimum of two ENVS cross-listed courses in the Social Sciences. The following courses are examples that would meet this requirement: **

ENVS 418--Environmental Economics and Law 3 SH

ENVS 432--International Political Economy 3 SH

ENVS 433--World History: An Ecological Perspective 3 SH

ENVS 440--Environment and Culture 3 SH

ENVS 441--Sustainable Communities 3 SH

ENVS 484--Anthropology of Tourism 3 SH

** Many social science courses require either SO 200 or SO 203 as a prerequisite. It is recommended that Environmental Science students take one of these courses to fulfill the Social Science Core Requirement for Regis College.

Natural Science Requirement ***7 SH***

Students must complete the following courses in natural science:

ENVS 402--Principles of Ecology 3 SH

ENVS 403--Ecology Laboratory 1 SH

ENVS 450--Environmental Impact Assessment 3 SH

Environmental Studies Elective Requirement ***3 SH***

Students must complete a minimum of one additional 400-level ENVS course.

Bachelors of Arts in Environmental Studies Major 40 SH

Students pursuing this degree are required to complete a companion major or minor in another subject area.

Lower Division Requirements *19 SH*

BL 262--Principles of Biology: Organismic 3 SH

BL 263--Organismic Biology Laboratory 1 SH

CH 202--Introduction to Environmental Chemistry 3 SH

CH 203--Introduction to Environmental Chemistry Laboratory 1 SH

ENVS 250--Introduction to Environmental Science 3 SH

ENVS 251--Introduction to Environmental Science Laboratory 1 SH

GE 208--Introduction to Geology 3 SH

GE 209--Introduction to Geology Laboratory 1 SH

One of the following statistics courses:

- MT 270/MT 270C--Introduction to Statistics 3 SH
  MT 272/MT 272C--Statistics for the Life Sciences 3 SH
  MT 370--Intermediate Statistics 3 SH
  MT 470A--Mathematical Statistics I 3 SH

Upper Division Requirements *21 SH*

Ethics Elective Requirement ***3 SH***

Students must complete a minimum of one of the following courses in environmental ethics:*

ENVS 415--Environmental Ethics 3 SH

RT 401E--Eco-Theology 3 SH

Social Science Elective Requirement ***9 SH***

Students must complete a minimum of three ENVS cross-listed courses in the social sciences. The following courses are examples that would meet this requirement:**

ENVS 418--Environmental Economics and Law 3 SH

ENVS 432--International Political Economy 3 SH

ENVS 433--World History: An Ecological Perspective 3 SH

ENVS 440--Environment and Culture 3 SH

ENVS 441--Sustainable Communities 3 SH

ENVS 484--Anthropology of Tourism 3 SH

** Many social science courses require either SO 200 or SO 203 as a prerequisite. It is recommended that Environmental Science students take one of these courses to fulfill the Social Science Core Requirement for Regis College.

Natural Science Requirement ***3 SH***

Students must complete the following courses in natural science:

ENVS 450-- Environmental Impact Assessment 3 SH

Environmental Studies Elective Requirement ***6 SH***

Students must complete a minimum of two additional 400-level ENVS courses.

Environmental Studies Minor 16 SH

Lower Division Requirement *4 SH*

ENVS 250--Introduction to Environmental Science 3 SH

ENVS 251--Introduction to Environmental Science Laboratory 1 SH

*Upper Division Requirements** *12 SH*

A minimum of 12 upper division semester hours of 400-level environmental studies courses are required for the minor. Note: Many upper-division ENVS courses have specific prerequisites beyond ENVS 250 and ENVS 251.

* PL 448K can be used to fulfill the environmental studies electives. The other 9 SH upper-division ENVS elective requirement must be met with ENVS courses.

ENVIRONMENTAL STUDIES COURSE DESCRIPTIONS (ENVS)

ENVS 250. INTRODUCTION TO ENVIRONMENTAL SCIENCE (3). Explores the environment and its modification by human activity within a scientific context. Considers the chemical, geological, climatological, and biological bases of current environmental issues. Co-requisite: ENVS 251. NOTE: Required for Environmental Studies majors and minors. Designed for non-science majors to meet the Natural Science Core requirement when taken with ENVS 251.

ENVS 251. ENVIRONMENTAL SCIENCE LABORATORY (1). Involves laboratory and field exercises accompanying and reinforcing lecture topics. May require a field trip outside of class time. Co-requisite: ENVS 250. NOTE: One three-hour laboratory per week.

ENVS 402. PRINCIPLES OF ECOLOGY (3). Explores the interactions of organisms in the context of their biotic and abiotic environments. Examines the basic models and principles used in evolutionary, behavioral, population, community, and ecosystem ecology. Co-requisite: ENVS 403. Prerequisite(s): BL 260 and BL 262 and MT 272. Cross listing: BL 402.

ENVS 403. ECOLOGY LABORATORY (1). Involves research design and the collection, evaluation, and statistical analysis of ecological data in the laboratory and in the field. Co-requisite: ENVS 402. Prerequisite(s): BL 261 and BL 263 and MT 272. Cross listing: BL 403. NOTE: Required for all Biology majors.

ENVS 410. AQUATIC AND FISHERIES ECOLOGY (3). Develops student knowledge of the ecology of freshwater and marine systems, emphasizing aquatic conservation and use of aquatic resources. Identifies aquatic resource issues and applications of perspectives to develop an integrative position. Prerequisite(s): BL 260 and BL 262. Cross listing: BL 410. NOTE: Participation in one of two field trips outside of class time required.

ENVS 411. ECOTHEOLOGY (3). Explores contemporary environmental issues from the perspectives of different religious traditions. Compares spiritual and religious views of the environment, its meaning, and its relation to human beings. Explores scientific understandings of contemporary environmental issues, asking how religions engage these issues.

ENVS 414. RELIGION AND THE ENVIRONMENT (3). Examines the interconnection between religion and the environment, including: the ways in which religion may be used to frame and discuss environmental issues; the contribution to environmental ethics made by religion; and the ways in which the environmental movement is shaped by and related to spiritualism.

ENVS 415. ENVIRONMENTAL ETHICS (3). Examines the theories of value, justice, and gender and applies them to environmental problems such as sustainability, climate change, over-population, consumption and waste, and wilderness protection, with the goal of developing ethical and political responses to these problems. Prerequisite(s): One 200 Level Philosophy Course. Cross listing: PL 448J and PJ 473 .

ENVS 416. JUST AND SUSTAINABLE DEVELOPMENT (3). Integrates knowledge of development practice and theory from the perspective of communities, states, and the global system. Builds on community-based models of just and sustainable development success. Interdisciplinary, drawing on health, environment, politics, business and law. Prerequisite(s):POL 231, POL 241, or POL 281. Cross listing: POL 406.

ENVS 417. ENVIRONMENTAL RHETORIC (3). Explores the values, needs, and persuasive strategies of various communities engaged in environmental debate, and includes guest speakers from across the Front Range, readings from multiple genres, and applied writing practice. Junior or senior standing.

ENVS 418. ENVIRONMENTAL ECONOMICS AND LAW (3). Examines the economic, legal, and political systems that affect and regulate the use and conservation of the environment. Examines topics such as sustainable development and environmental regulation. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 418.

ENVS 419. WILDERNESS: IDEALS, VALUES & LEGISLATION (3). Introduces the philosophy, the literature, the legislation, and the current debate surrounding "wilderness." Includes a mix of reading, discussion, writing, and a service learning project.

ENVS 420. ENVIRONMENTAL POLITICS (3). Uses four case studies of environmental progress to drive analysis of local, regional, national, and global levels of dealing with change and conservation. Examines civil society, state and UN system approaches to building environmental norms that shape policy and legislation. Prerequisite(s): POL 231, POL 241, and POL 281. Cross listing: POL 420. Note: Junior standing or completion of distributive core required.

ENVS 421. READ NATURE, WRITE THE WORLD (3). Integrates different types of disciplinary thinking through reading and writing across the genres of poetry, fiction, nonfiction essay/memoir, and research-based position papers. The latter genre will require the student to demonstrate a degree of scientific literacy and the ability to reason quantitatively. Prerequisite(s): Junior standing.

ENVS 423. GENDER, LANDSCAPE AND AMERICAN LITERATURE (3). Focuses on American literature and other media to examine responses to landscape and nature, and the implications of these responses to our understanding of gender, as well as political and historical forms of colonization of people, and exploitation. Prerequisite(s): RCC 200, EN 210, WGS 400 and one 300-level English course. Cross listing: WGS 413.

ENVS 425. ENVIRONMENT AND INTERNATIONAL SECURITY (3). Describes and evaluates environmental processes and conditions that affect contemporary and future international and human security. Examines causes, forms, and consequences of environmental scarcity and degradation. Prerequisite(s): POL 231 or POL 241. Cross listing: POL 451.

ENVS 428. CONSERVATION BIOLOGY (3). Introduces the fundamental principles of conservation biology including patterns of global biological diversity, biogeography, population genetics, extinction, restoration ecology, management, and conservation policy. Prerequisite(s): BL 260 and BL 262. Cross listing: BL 428.

ENVS 432. INTERNATIONAL POLITICAL ECONOMY (3). Analyzes the interactions and interrelationships between political and economics factors at the global level. Factors include monetary management, trade, multinational corporations, foreign aid, cartels, and debt. Considers Western and North-South systems. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 432, PJ 454 and POL 432.

ENVS 433. WORLD HISTORY: AN ECOLOGICAL PERSPECTIVE (3). Beginning with geographical parameters, surveys ecological, cultural, and civilizational regions of the world and their interactions from pre- history to the present. Cross listing: HS 403.

ENVS 435. ADVANCED FIELD ECOLOGY LABORATORY (2). Introduces students to methods of sampling and studying a variety of organisms in the field. Develops student ability to design, conduct, and appropriately interpret field ecological studies. Prerequisite(s): BL 403 or ENVS 403. Cross listing: BL 435.

ENVS 436. ENVIRONMENT AND ENERGY (3). Examines the relationship between the development of energy resources and environmental conditions. Emphasizes how economic and political ideology and institutions affect our relationship to the Earth. Prerequisite(s): SO 200 or SO 203 or permission of instructor required. Cross listing: PJ 436 and SO 436.

ENVS 438. THAT'S GARBAGE! MAKING DIGITAL STORIES OF AN ABOUNDING MYSTERY (3). Course explores the mysteries of garbage - its past and future, where it goes when you are done with it, the real people who deal with it, the human and environmental problems it causes, the untapped resource it is, and unique solutions for creating a world with less waste. Students will explore ideas through books, blogs, websites, field trips, self-reflection, interviews, and discussions, then analyze and distill that information to write great stories and to craft a series of your own digital stories for the public. Students will produce non-fiction digital video stories for personal reflection, research, and social change. Pre-requisite: Junior Standing.

ENVS 440. ENVIRONMENT AND CULTURE (3). Provides an introduction to cultural perspectives on the environment focusing on how social categories such as race, gender and class shape the way humans interact with the natural environment and react to environmental degradation.

ENVS 441. SUSTAINABLE COMMUNITIES (3). Explores social, environmental, and economic issues that prevent and encourage more sustainable communities. Topics include transportation, sprawl, poverty, urban/wildlife interface, housing, population, consumption, municipal/toxic waste, community resources and empowerment, and a variety of proposed solutions from around the world. Prerequisite(s): SO 200 or SO 203 or permission of instructor required. Cross listing: PJ 441 and SO 441.

ENVS 445. COMPARATIVE PUBLIC POLICY (3). Provides a comparative examination of public policy in western industrialized nation-states emphasizing the interaction and interdependency of politics and economics. Evaluates basic issues of public policy including distribution, extraction, and regulation focusing on identifying both the range of possible choices and the actual outcomes of adopted policies under a variety of circumstances. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 445 or POL 445 or PJ 446.

ENVS 448. PLANT DIVERSITY AND ECOLOGY (3). Surveys plant systematics and distributional aspects of plant community ecology. Emphasizes identification, classification, biogeography, and environmental effects on plant distribution and community structure. Focuses on the Colorado flora. Prerequisite(s): BL 260 and BL 262. Cross listing: BL 448. NOTE: One or two weekend field trips required.

ENVS 450. ENVIRONMENTAL IMPACT ASSESSMENT (3). Focuses on the theory and methods of creating environmental impact assessment reports. Explores various perspectives including ecology, chemistry, geology, economics, and environmental justice. This course is the capstone course for all environmental science and environmental studies students. Prerequisite(s): ENVS 250.

ENVS 455. MODELING SUSTAINABILITY (3). Sustainability can be defined in many different ways. This course explores the concept of sustainability and ask why it matters. Investigate the myriad of ways that services, products, business, institutions, and people can improve their sustainability, and discusses why that matters in a global context.

ENVS 458. ANIMAL BEHAVIOR AND BEHAVIORAL ECOLOGY (3). Explores the mechanisms and functions of animal behavior with emphasis on the ecological and evolutionary bases of animal behavior. Some areas discussed include communication, reproductive behavior, and social behavior. Prerequisite(s): BL 260 and BL 262. Cross listing: BL 458.

ENVS 459. ANIMAL BEHAVIOR LABORATORY (1). Laboratory and field exercises accompany and reinforce lecture topics. Involves non-invasive work with live animals. Co-requisite: ENVS 458. Prerequisite(s): BL 260 and BL 262. Cross listing: BL 459.

ENVS 460. FOREST AND LANDSCAPE ECOLOGY (3). Investigates the unique ecological characteristics of forest ecosystems, surveys the diversity of world forests, and explores methods of analysis and management of forests at landscape scales. Prerequisite(s): BL 260, BL 262, and MT 272. Cross listing: BL 460. NOTE: May require participation in field trips outside of class time.

ENVS 461. WESTERN ECOLOGY, LAW, AND LAND STEWARDSHIP (3). Investigates how ecology and laws have interacted to produce the specific ecology of the Western United States, particularly Colorado and Utah. Students will camp every night of the second two weeks of this course in the areas that will studied. Being in the field gives the student a unique opportunity to assess the ecological impacts of various land use laws.

ENVS 462. PRIMATE ECOLOGY AND BEHAVIOR (3). Explores the ecology and evolution of primates in the context of their biotic and abiotic environments. Emphasizes primate life history, behavior, social organization and conservation ecology. Prerequisite(s): BL 260 and BL 262. Cross listing: BL 462. NOTE: May require participation in field trips outside of class time.

ENVS 470. ECONOMIC DEVELOPMENT IN THE THIRD AND FOURTH WORLDS (3). Studies various models/theories of economic development that traces a history of underdevelopment in the third and fourth worlds. Investigates the various barriers and problem areas in developing countries. Assesses possibilities, prospects, and policies of the future. Prerequisite(s): EC 320. Cross listing: BA 472, EC 470, and PJ 470.

ENVS 472. PLANT PHYSIOLOGICAL ECOLOGY (3). Explores the physiological responses of plants to their biotic and abiotic environments. Focuses on the physiological ecology of Colorado flora. Co-requisite: ENVS 473. Prerequisite(s): BL 260 and BL 262. One course in Chemistry recommended. Cross listing: BL 472.

ENVS 473. PLANT PHYSIOLOGICAL ECOLOGY LABORATORY (1). Involves laboratories accompanying and reinforcing lecture topics. Co-requisite: ENVS 472. Prerequisite(s): BL 261 and BL 263. Cross listing: BL 473. NOTE: One or two field trips on weekends required.

ENVS 476. COLORADO FLORA AND FAUNA (3). Explores the range of ecological communities found in Colorado. Focuses on natural history and ecology of the plants, mammals, birds, reptiles, amphibians, fishes, and macroinvertebrates in Colorado. Prerequisite(s): BL 260 and BL 262. Cross listing: BL 476.

ENVS 481E-W. SPECIAL TOPICS IN ENVIRONMENTAL STUDIES (1-4). Explores selected topics in environmentally focused topics not normally covered in regular course offerings. Prerequisite(s): Sophomore standing or higher.

ENVS 484. ANTHROPOLOGY OF TOURISM (3). Examines the phenomenon of tourism in relationship to modernity, authenticity, sexual and romantic tourism, ecotourism, and others. Prerequisite(s): SO 200 and SO 204 or AN 204 or permission of instructor. Cross listing: AN 484 and SO 484.

ENVS 486. OIL AND WATER IN THE MIDDLE EAST (3). From the peripheralization of the economy of the marginal climatic zone of the Middle East in the nineteenth center to the far-reaching consequences of global dependence on fossil fuel in the present. Cross listing: HS 486 and PJ 488.

ENVS 490E-W. INDEPENDENT STUDY IN ENVIRONMENTAL STUDIES (1-3). Offers an opportunity for advanced study in independent research projects in environmental studies. Prerequisite(s): Permission of instructor and approval of Environmental Studies director.

ENVS 498E-W. INTERNSHIP IN ENVIRONMENTAL STUDIES (3). Develops skills related to real-life working situations in major-related field. Prerequisite(s): Approval of Environmental Studies director and Academic Internship Program director.

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EXERCISE SCIENCE

Dr. Clifford Barnes, Associate Professor, Chairperson

Exercise Science is a multidimensional study of human health and movement. This discipline explores normal movement and the physiological and functional adaptations of how it is organized, controlled, and regulated. This study is based on principles of biomechanics, exercise physiology, motor behavior, nutrition and psychosocial aspects of health and exercise. Exercise Science builds on courses of study in the natural and behavioral sciences linking the study of human physical activity with foundations of scientific knowledge. Students are challenged to discover and explain principles of human movement, and to apply this knowledge in a manner that guides individuals to optimize health and physical performance in leisure, work, and rehabilitative environments. This study of normal movement forms the foundation for modification of activity from a health and wellness perspective, to enhance performance, or to promote recovery following injury or illness of an individual. Career options can include Health and Wellness Coaching, Fitness Trainer and Exercise Specialist. Graduates are prepared for application to professional graduate programs such as Physical Therapy and other health fields, and academic graduate programs such as Exercise Science, Exercise Physiology, Integrated Physiology, and Kinesiology.

Major in Exercise Science

A major in Exercise Science is available at this time only as part of the Thematic Major Program. A typical thematic major program is designed by the student in consultation with the major advisor and the Committee on Extraordinary Studies within Regis College. A new major in Health and Exercise Science will be available within the School of Physical Therapy in Rueckert-Hartman College for Health Professions beginning in the academic year 2013-2014.

Minor in Exercise Science

A minor in Exercise Science is offered and is compatible with a number of undergraduate majors, including Biology, Neuroscience, and Psychology. Courses in the minor develop theoretical and practical knowledge related to the biological, mechanical, and behavioral basis for movement. The minor is designed so that students will experience the multidisciplinary foundations of human exercise and movement. Students who include the Exercise Science minor in their education will be able to apply this knowledge to strategies designed to improve and optimize physical performance.

The Exercise Science minor, offered through the Rueckert-Hartman College for Health Professions, School of Physical Therapy is open to all Regis University students. The four required courses in the minor are upper division courses that may be taken in any sequence.

The Exercise Science minor is required for undergraduate students intending to seek preferred admission to the Doctor of Physical Therapy program offered through Rueckert-Hartman College for Health Professions at Regis University. The four exercise science courses taught by faculty in the School of Physical Therapy promote an early introduction and mentoring of the student to the educational experiences leading to Physical Therapy as a profession. Students completing the Exercise Science minor are given preferred admission status for an interview with the physical therapy faculty for the doctoral program. For additional information regarding the preferred admission process for the Doctor of Physical Therapy program, contact the School of Physical Therapy and/or refer to the Doctor of Physical Therapy section in this *Catalog*.

Lower Division Requirements	*22-23 SH*
BL 274--Introduction to Human Anatomy	3 SH
BL 275--Human Anatomy Laboratory	1 SH
BL 276--Introduction to Human Physiology	3 SH
BL 277--Human Physiology Laboratory	1 SH
MT 272/MT 272C--Statistics for the Life Sciences	3 SH
PH 202A--General Physics with Trigonometry I	3 SH
PH 205A--General Physics with Trigonometry Laboratory I	1 SH
PH 202B--General Physics with Trigonometry II	3 SH
PH 205B--General Physics with Trigonometry Laboratory II	1 SH
PY 250/PY 250C--General Psychology	3 SH
or	
NS 260--Introduction to Brain and Behavior	3 SH
and	
NS 261--Introduction to Brain and Behavior Laboratory	1 SH
Upper Division Requirements	*12 SH*
EXS 421--Functional Anatomy	3 SH
EXS 422--Concepts of Motor Behavior	3 SH
EXS 423--Physiology of Exercise	3 SH
EXS 424--Biomechanics of Exercise	3 SH
Upper Division Electives	*2-6 SH*
EXS 490E-W-Independent Study in Exercise Science	1-3 SH
EXS 498E-W-Internship in Exercise Science	1-3 SH

EXERCISE SCIENCE COURSE DESCRIPTIONS (EXS)

EXS 421. FUNCTIONAL ANATOMY (3). Examines anatomical concepts of the musculoskeletal and nervous systems that form the basis of analysis of human movement. Explores joint movement, complex muscular activity, and integration of components of the nervous system. Includes anatomical principles through examples as they apply to work, general physical activity, sports performance, and lifespan issues. Prerequisite(s): BL 274 and BL 275. NOTE: Offered every other fall semester.

EXS 422. CONCEPTS OF MOTOR BEHAVIOR (3). Examines basic principles and concepts involved in human development, control, and learning of motor skills. Explores characteristics of the learner affecting motor performance, processes involved in movement control, and variables affecting long-term retention of motor skills. Includes application of theoretical principles and research findings to practical settings. Prerequisite(s): BL 274 and BL 275, MT 272, and PY 250. NOTE: Offered every other fall semester.

EXS 423. PHYSIOLOGY OF EXERCISE (3). Explores concepts of nutrition and energy production during exercise involving the pathways from food ingestion to final production of ATP. Relates measurement of energy expenditure to differences in endurance exercise capacity. Adaptations of the pulmonary, cardiovascular, skeletal muscle, nervous, urinary, gastrointestinal, and endocrine systems to the stress of exercise are discussed. Developmental differences of age are incorporated. Prerequisite(s): BL 274, BL 275 and BL 276, BL 277. NOTE: Offered every other spring semester.

EXS 424. BIOMECHANICS OF EXERCISE (3). Evaluates internal and external forces acting on a human body and the effects produced by these forces. Quantitative and qualitative evaluations are performed with an introduction to the associated kinematic and kinetic variables used to describe body movements. Prerequisite(s): PH 202A, PH 205A, BL 274 and BL 275. NOTE: Offered every other spring semester.

EXS 490E-W. INDEPENDENT STUDY IN EXERCISE SCIENCE (1-3). Offers an opportunity for independent advanced study in one of the specific Exercise Science disciplines. Prerequisite(s): Approval of program chair required.

EXS 498E-W. INTERNSHIP IN EXERCISE SCIENCE (1-3). Involves placement in a clinical or research facility to experience the application of concepts of Exercise science. Prerequisite(s): Approval of Director of Experiential Education and program chair required.

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DEPARTMENT OF FINE AND PERFORMING ARTS

Dr. Barbara Coleman, Associate Professor, Chairperson

Dr. Mark Davenport, Associate Professor

Mr. Anthony Ortega, Associate Professor

Mr. Eugene Stewart, Associate Professor

Mr. William Sutton, Associate Professor

Dr. Loretta K. Notareschi, Assistant Professor

DEPARTMENTAL INFORMATION

The Department of Fine and Performing Arts offers courses in visual arts, art history, music, music history, music theory, applied music, music ensembles, and theatre. The Bachelor of Arts degree is available with a major in Visual Arts, Art History, Music, Music Performance, and Music History and Literature. Minors are available in Visual Art, Art History and Music.

FINE ARTS: VISUAL ARTS

Students planning to major in Visual Arts must obtain and submit a Major Declaration form with the Office of the Dean, Regis College. Acceptance into the major requires a portfolio review by the Department and approval of the department chair. Students wishing to obtain more information regarding the portfolio requirement should contact the department chair.

The Visual Arts major is designed to give students a broad and flexible foundation in the visual arts while also giving them an opportunity to develop an emphasis in a particular medium. Students establish a firm basis in design, art history, and criticism while pursuing technical proficiency. This prepares students for the practice of art and grounds their knowledge in experience and first-hand problem solving. The Visual Arts major prepares students for jobs in a wide field of options, including publications, public relations, graphic design and others. The Bachelor of Arts in Visual Arts is also excellent preparation for graduate programs in Fine Arts.

Each student works with an advisor from the department who will guide her or him through completion of the requirements for the major and assure that the student's future plans are optimized by the art curriculum.

A Junior Portfolio Review of each fine arts major will be conducted in the second semester of the student's junior year. The purpose of this evaluation is to determine how the student has progressed in his/her chosen medium or media and discuss goals and objectives for the senior thesis show.

Transfer students who wish to major in Fine Arts must present a portfolio for review by the Department. Besides the requirement that at least half of the upper division courses must be taken at Regis, graduating art students must complete FAA 499--Senior Thesis, which culminates with a student exhibition in the O'Sullivan Arts Center.

Fine Arts: Visual Arts Major **39 SH**

Lower Division Requirements *18 SH*

Eighteen lower division semester hours, which must include the following:

FAA 230--Two Dimensional Design	3 SH
FAHS 211--Art History: Prehistory to the Proto-Renaissance	3 SH
FAHS 212--Art History Survey: Renaissance to Present	3 SH
Lower Division Studio Electives	9 SH

Upper Division Requirements *21 SH*

Twenty-one upper division semester hours, which must include the following:

Upper division in a single medium	6-9 SH
Upper division in additional mediums	3-6 SH
Upper division in Art History	6 SH
FAA 499--Senior Thesis	3 SH

Visual Arts Minor **12 SH**

Upper Division Requirements *12 SH*

Twelve upper division semester hours of Studio Art and/or Art History courses selected with the approval of the major advisor.

FINE ARTS: CORE

All Regis College students are required to complete a Fine Arts Core course. The Core Studies requirement emphasizes that the basic human impulse to create is common across all of the arts. The requirement may be fulfilled by taking any courses with the FAC prefix. These courses introduce students to aesthetic vocabularies through a survey of specific art disciplines (Visual Arts, Music or Theatre). Core Studies students are also exposed to the fine and performing arts through attendance at exhibitions, performances, poetry readings, and lectures in the O'Sullivan Art Gallery and the department performance hall.

Exhibitions and events in the O'Sullivan Art Gallery serve students in the Fine and Performing Arts Department as well as the entire Regis University and Denver area community. The O'Sullivan Art Gallery is a widely recognized cultural center.

FINE ARTS: ART HISTORY

Art History Major **36 SH**

Lower Division Requirements *9 SH*

FAA 230--Two Dimensional Design	3 SH
FAHS 211--Art History: Prehistory to the Proto-Renaissance	3 SH
FAHS 212--Art History Survey: Renaissance to Present	3 SH

Upper Division Requirements *27 SH*

FAHS 408E-W--Themes in Art History	3 SH
FAHS 410--Modern Art: Neo-Classicism to 1945	3 SH
FAHS 415--Contemporary Art: 1945 to the Present	3 SH
FAHS 453E-W--Special Topics in Music and Art	3 SH
FAHS 499--Senior Art History Thesis	3 SH

Six upper division semester hours of Fine Arts: History courses selected from the following:

FAHS 435--Images of Women in Art and the Popular Media	3 SH
FAHS 440--American Art: Colonial to Present	3 SH
FAHS 445--History of Photography	3 SH
FAHS 450--Medieval/Renaissance Art	3 SH

Six semester hours from any of the following selected in consultation with an academic advisor:

PL 445--Philosophy of Art	3 SH

Any level Communications Course

Any level English Literature Course

Any level History Course

Any level Music Course

Any level Religious Studies Course

Art History Minor **12 SH**

Upper Division Requirements *12 SH*

Twelve upper division semester hours of Art History courses selected with the approval of the major advisor.

FINE ARTS: MUSIC

Dr. Mark Davenport, Program Director

The Music Program includes a wide variety of courses and is intended for students of all levels of experience, offering participation in beginning to advanced music lessons and classes, performing ensembles, and courses in music history and music theory. Students who want to concentrate in more advanced studies in music may pursue a Bachelor of Arts or a structured music minor.

Students wishing to pursue the music major or minor should contact the director of the Music Program or the Chairperson of the Department of Fine and Performing Arts. Currently, the Department of Fine and Performing Arts offers three music major degrees: the Bachelor of Arts in Music; the Bachelor of Arts in Music Performance; and the Bachelor of Arts in Music History and Literature. The music major curriculum offers a comprehensive course of study in historical, cultural, theoretical, and performance perspectives. With a grounding in the traditional music styles of

Western art music, music majors will also acquire an essential awareness and knowledge of contemporary musical directions, American music, interdisciplinary studies between music and art, and the musical traditions of other cultures. The Bachelor of Arts in Music prepares students to go onto graduate studies, education, or one that combines music with other disciplines such as music and liturgy, arts management and administration, communication, business or community-based professions.

Music majors with an emphasis in performance are expected to participate in applied lessons and ensembles every semester, once they have declared the major. Performance majors have added studies in Techniques and Performance and advanced ensembles. Performance majors prepare and present public recitals in both their junior and senior years. The Department currently offers the Performance Emphasis in the applied areas of voice, piano, guitar, oboe, clarinet, flute, bassoon, recorder, violin, viola, and cello. Auditions are required.

The Structured Music minor is offered to any Regis College student who demonstrates substantial skill and technique on an instrument or voice (audition required). The music minor at Regis College is designed to give students an excellent general foundation in music, music history, and the technical language of music. Music minors develop a serious mastery of an instrument or voice and gain experience working in advanced ensemble groups.

NOTE: All music majors must pass a keyboard proficiency exam.

Bachelor of Arts in Music — 39 SH

Lower Division Requirements — *21 SH*

Vernacular Traditions/American Music (choose one)

FAC 251--United States Folk, Pop, and Jazz	3 SH
FAC 253E-W--Topics in Music and Art	3 SH
FAC 254--American Musical Theater	3 SH

Music in World Cultures

FAC 250E-W--World Music	3 SH

Music Theory

FAMT 200--Music Theory I *	3 SH
FAMT 201--Aural Skills I *	2 SH
FAMT 300--Music Theory II	3 SH
FAMT 301--Aural Skills II	2 SH
FAMT 350--Music Theory III	3 SH

* Prerequisites may be required depending upon music theory placement.

Applied Music (FAM 200-level)

Applied Lesson	1 SH
Applied Lesson	1 SH

Music Ensemble (FAM-200 level)

Ensemble	0 SH
Ensemble	0 SH

Recital Hour

FAMR 200A--Freshman Recital Hour A	0 SH
FAMR 200B--Freshman Recital Hour B	0 SH
FAMR 300A--Sophomore Recital Hour A	0 SH
FAMR 300B--Sophomore Recital Hour B	0 SH

NOTE: Required every semester once the music major is declared.

Upper Division Requirements — *18 SH*

Advanced Music History

FAMH 452--European Music Literature	3 SH
FAMH 455E-W--Topics in Music History	3 SH

Advanced Music Theory

FAMT 400--Orchestration, Arranging, and Conducting	3 SH

Advanced Applied Music (FAM 400-level)

Advanced Applied Lesson	1 SH
Advanced Applied Lesson	1 SH

Advanced Music Ensemble (FAM-400 level)

Advanced Ensemble	2 SH
Advanced Ensemble	2 SH

Recital Hour

FAMR 400A--Junior Recital Hour A	0 SH
FAMR 400B--Junior Recital Hour B	0 SH
FAMR 450A--Senior Recital Hour A	0 SH
FAMR 450B--Senior Recital Hour B	0 SH

Senior Thesis: Music in the Arts

FAM 499--Senior Thesis: Music in the Arts	3 SH

Bachelor of Arts in Music Performance — 45 SH

Lower Division Requirements — *21 SH*

Vernacular Traditions/American Music (choose one)

FAC 251--United States Folk, Pop, and Jazz	3 SH
FAC 253E-W--Topics in Music and Art	3 SH
FAC 254--American Musical Theater	3 SH

Music in World Cultures

FAC 250E-W--World Music	3 SH

Music Theory

FAMT 200--Music Theory I *	3 SH
FAMT 201--Aural Skills I *	2 SH
FAMT 300--Music Theory II	3 SH
FAMT 301--Aural Skills II	2 SH
FAMT 350--Music Theory III	3 SH

* Prerequisites may be required depending upon music theory placement.

Applied Music (FAM 200-level)

Applied Lesson	1 SH
Applied Lesson	1 SH

Music Ensemble (FAM-200 level)

Ensemble	0 SH
Ensemble	0 SH

Recital Hour

FAMR 200A--Freshman Recital Hour A	0 SH
FAMR 200B--Freshman Recital Hour B	0 SH
FAMR 300A--Sophomore Recital Hour A	0 SH
FAMR 300B--Sophomore Recital Hour B	0 SH

NOTE: Required every semester once the music major is declared.

Upper Division Requirements *24 SH*

Advanced Music History

FAMH 452--European Music Literature	3 SH
FAMH 455E-W--Topics in Music History	3 SH

Advanced Music Theory

FAMT 400--Orchestration, Arranging, and Conducting	3 SH

Techniques and Performance in applied area

Techniques and Performance I	2 SH
Techniques and Performance II	2 SH
Techniques and Performance III	2 SH
Techniques and Performance IV	2 SH

Music Major Recitals

FAMR 403--Junior Recital	0 SH
FAMR 404--Senior Recital	0 SH

Advanced Music Ensemble (FAM-400 level)

Advanced Ensemble	0-2 SH
Advanced Ensemble	0-2 SH
Advanced Ensemble	0-2 SH
Advanced Ensemble	0-2 SH

NOTE: Four semester hours required--sustained over four semesters.

Recital Hour (Required every semester)

FAMR 400A--Junior Recital Hour A	0 SH
FAMR 400B--Junior Recital Hour B	0 SH
FAMR 450A--Senior Recital Hour A	0 SH
FAMR 450B--Senior Recital Hour B	0 SH

Senior Thesis: Music in the Arts

FAM 499--Senior Thesis: Music in the Arts	3 SH

Bachelor of Arts in Music History and Literature 45 SH

Lower Division Requirements *24 SH*

Vernacular Traditions/American Music (choose one)

FAC 251--United States Folk, Pop, and Jazz	3 SH
FAC 253E-W--Topics in Music and Art	3 SH
FAC 254--American Musical Theater	
or	
FAC 250E-W--World Music	3 SH

Music Theory

FAMT 200--Music Theory I *	3 SH
FAMT 201--Aural Skills I *	2 SH
FAMT 300--Music Theory II	3 SH
FAMT 301--Aural Skills II	2 SH
FAMT 350--Music Theory III	3 SH

* Prerequisites may be required depending upon music theory placement.

Applied Music (FAM 200-level)

Applied Lesson	1 SH
Applied Lesson	1 SH
Applied Lesson	1 SH
Applied Lesson	1 SH

Music Ensemble (FAM 200-level)

Ensemble	0-2 SH
Ensemble	0-2 SH
Ensemble	0-2 SH
Ensemble	0-2 SH

Recital Hour

FAMR 200A--Freshman Recital Hour A	0 SH
FAMR 200B--Freshman Recital Hour B	0 SH
FAMR 300A--Sophomore Recital Hour A	0 SH
FAMR 300B--Sophomore Recital Hour B	0 SH

NOTE: Required every semester once the music major is declared.

Upper Division Requirements *21 SH*

Advanced Music History

FAMH 452--European Music Literature	3 SH
FAMH 455E-W--Topics in Music History	3 SH

Six semester hours selected from the following:(Students must complete either FAC 250E-W or FAMH 450E-W.)

FAMH 450E-W--World Music Literature	3 SH
FAMH 451--History of U.S. Folk, Pop and Jazz	3 SH
FAMH 453E-W--Special Topics in Music and Art	3 SH
FAMH 454--History and Performance of American Musical Theater	3 SH

Advanced Music Theory

FAMT 400--Orchestration, Arranging, and Conducting	3 SH
FAMT 401--Counterpoint	3 SH

Recital Hour

FAMR 400A--Junior Recital Hour A	0 SH
FAMR 400B--Junior Recital Hour B	0 SH
FAMR 450A--Senior Recital Hour A	0 SH
FAMR 450B--Senior Recital Hour B	0 SH

Senior Thesis: Music in the Arts

FAM 499--Senior Thesis: Music in the Arts	3 SH

Music Minor	**21 SH**
Lower Division Requirements	*9 SH*
Vernacular Traditions/American Music (choose one)	
FAC 251--United States Folk, Pop, and Jazz	3 SH
FAC 253E-W--Topics in Music and Art	3 SH
FAC 254--American Musical Theater	
or	
FAC 250E-W--World Music	3 SH
Music Theory	
FAM 235--Foundations of Music	3 SH
FAM 236--Basic Musicianship	2 SH
Note: These courses may be waived depending on music theory placement.	
Applied Music (FAM 200-level) Applied Lesson	1 SH
Music Ensemble (FAM 200-level) Ensemble	0-2 SH
Recital Hour	
FAMR 200A--Freshman Recital Hour A	0 SH
FAMR 200B--Freshman Recital Hour B	0 SH
FAMR 300A--Sophomore Recital Hour A	0 SH
FAMR 300B--Sophomore Recital Hour B	0 SH
Upper Division Requirements	*12 SH*
Advanced Music History	
FAMH 452--European Music Literature	3 SH
Techniques and Performance (Applied area)	
Techniques and Performance I	2 SH
Techniques and Performance II	2 SH
Techniques and Performance III	2 SH
Advanced Ensemble	
Advanced Ensemble	0-2 SH
Advanced Ensemble	0-2 SH
Advanced Ensemble	0-2 SH
Music Minor Recital	
FAMR 402--Music Minor Recital	0 SH

DEPARTMENT OF FINE AND PERFORMING ARTS COURSE DESCRIPTIONS (FA)

FINE ARTS: ART (FAA)

FAA 215. INTRODUCTION TO ELECTRONIC IMAGING (3). Introduces students to the foundations, practice, history, and technical domain of electronic imaging and digital image processing. Esthetic, technical, social, and ethical issues regarding the practice of electronic image making are discussed in the context of student's own electronic image making. Course utilizes imaging programs (such as PhotoShop and Illustrator) and graphic design programs (such as PageMaker).

FAA 217. INTRODUCTION TO GRAPHIC DESIGN (3). Lecture/studio course in graphic design covering historical and applied practices. Covers typography, concept development, production tools and portfolio development using individual and group design projects.

FAA 230. TWO-DIMENSIONAL DESIGN (3). Uses various materials to present the fundamentals of two-dimensional perception, while encouraging individual expressive exploration.

FAA 240. INTRODUCTION TO PHOTOGRAPHY (3). Introduces photography as a medium of artistic expression that utilizes the camera, basic digital imaging techniques, and inkjet printers to develop and express ideas and experience through visual means.

FAA 250. INTRODUCTION TO PAINTING (3). Uses various materials to teach fundamental painting techniques and to facilitate the development of individual expressive exploration.

FAA 260. INTRODUCTION TO SCULPTURE (3). Provides an extensive working knowledge of the basic three-dimensional techniques and concepts of sculpture.

FAA 270. INTRODUCTION TO DRAWING (3). Studies the fundamental principles of drawing with emphasis on the physical as well as mental aspects of creative drawing.

FAA 290. INTRODUCTION TO PRINTMAKING (3). Introduces students to the foundations, practice, history, and technique of Fine Art printmaking. Discusses esthetic, social, and ethical issues in the context of student's own creative output. Covers reflex, intaglio, and Plano graphic techniques.

FAA 420. ADVANCED ELECTRONIC IMAGING (3). Explores issues particular to the current practice of digital image making. Focuses on digital printmaking and presentation. Prerequisite(s): FAA 215 or permission of instructor.

FAA 421E-W. ELECTRONIC IMAGING STUDIO (3). Provides continued supervised studio electronic imaging practice beyond the beginning level. Includes the development of student portfolios and enjoyment in peer and instructor critiques. Prerequisite(s): FAA 215 and FAA 420 or permission of instructor.

FAA 443. ADVANCED PHOTOGRAPHY (3). A continuation of the study of photography as a fine art with an exploration of various applications of photography that guide the student in the development of a portfolio of creative work. Prerequisite(s): FAA 240.

FAA 446E-W. PHOTOGRAPHY STUDIO (3). Provides supervised studio photography practice beyond the beginning level. Involves the development of student portfolios and engaging in peer and instructor critiques. Prerequisite(s): FAA 443 or permission of instructor.

FAA 450. ADVANCED PAINTING (3). A continuation of FAA 250. Prerequisite(s): FAA 250 or equivalent, or permission of instructor.

FAA 451E-W. PAINTING STUDIO (3). Provides continued supervised studio painting practice beyond the beginning level. Involves the development of student portfolios and engaging in peer and instructor critiques. Prerequisite(s): FAA 450 or permission of instructor.

FAA 460. ADVANCED SCULPTURE (3). A continuation of FAA 260. Prerequisite(s): FAA 260 or permission of instructor.

FAA 461E-W. SCULPTURE STUDIO (3). Provides continued supervised studio sculpture practice for students beyond the beginning level. Involves the development of student portfolios and engaging in peer and instructor critiques. Prerequisite(s): FAA 460 or permission of instructor.

FAA 472. ADVANCED DRAWING (3). Provides advanced level drawing in studio format with critiques and discussions of student work. Prerequisite(s): FAA 270 or permission of instructor.

FAA 474E-W DRAWING STUDIO (3). Provides continued supervised studio drawing practice for students beyond the beginning level. Involves the development of student portfolios and engaging in peer and instructor critiques. Prerequisite(s): FAA 472 or permission of instructor.

FAA 475E-W. LIFE DRAWING (3). Studies human figure as drawing subject matter. Anatomy will be discussed with emphasis on composition and examination of historical references. Prerequisite(s): FAA 230 or FAA 270 or permission of instructor.

FAA 480. ADVANCED PRINTMAKING (3). Explores issues particular to the current practice of Fine Arts printmaking. Focuses on extending technical proficiency and portfolio development. Prerequisite(s): FAA 290.

FAA 481E-W. PRINTMAKING STUDIO (3). Provides continued supervised studio printmaking practice beyond the advanced level. Focuses on extended portfolio development and engagement in the critical process. Prerequisite(s): FAA 480.

FAA 490E-W. INDEPENDENT STUDY IN ART (1-3). Explores and pursues areas of interest. Prerequisite(s): Approval of department chair.

FAA 498E-W. INTERNSHIP IN ART (3). Provides practical experience and intellectual guidance in an area of art. Prerequisite(s): Approval of department chair and Academic Internship Program.

FAA 499. SENIOR THESIS (3). Presents a public exhibition of the student's work, representative of their studio production. Prerequisite(s): Majors only.

FINE ARTS: CORE (FAC)

FAC 200/FAC 200C. ART IN CULTURE (3). Introduces the visual arts as an expression of human values within a cultural context and develops a visual vocabulary and critical methods for evaluating and responding to art. NOTE: FAC 200C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

FAC 205. INTRODUCTION TO LITERACY AND ART (3). Examines artists' work, vocabulary, and critical methods for evaluating and responding to visual arts. Visits to artists' studios and non-profit art centers are integral as is work with children from the local Latino community. NOTE: Non-major's only.

FAC 211. ART HISTORY: PREHISTORY TO THE PROTO-RENAISSANCE (3). Investigates major art developments from the pre-history to the proto-renaissance in western and non-western traditions. Discusses major works, figures, and world events as they relate to human artistic expression. Prerequisite(s): Majors, minors, or honors students only or permission of instructor required. Cross listing: FAHS 211. NOTE: Permission of Instructor required.

FAC 212. ART HISTORY SURVEY: RENAISSANCE TO PRESENT (3). Examines the style, content, and context of works of art from the Renaissance to the present. Prerequisite(s): Majors, minors, or honors students only or permission of instructor required. Cross listing: FAHS 212.

FAC 225. MUSIC OF THE ROCK ERA (3). Explores music of the Rock Era (1945 - today), focusing on the 1950's through the 1970's, major trends and developments are investigated while drawing comparisons and relevance to popular musical styles of today.

FAC 250E-W. WORLD MUSIC (3). Studies musical practices of diverse cultures including instrumental and vocal styles, dance, drama, and ceremonies.

FAC 251. UNITED STATES FOLK, POP, AND JAZZ (3). Surveys various folk, popular and jazz styles cultivated in the United States from the 18th century to the present, with an emphasis on cultural diversity that contributes to 'American' music, manifested in cultural regionalism and cross-cultural developments. Students will identify, aurally recognize, and evaluate various cultural components and trends in vernacular music in the United States.

FAC 252. EXPLORING MUSIC (3). Provides basic knowledge and appreciation of music through a survey of music traditions from the Greeks through the present day. Explores circumstances, cultural values, and representative pieces of music from each major period.

FAC 253E-W. TOPICS IN MUSIC AND ART (3). Introduction to the interdisciplinary study of music and art in the Western world. Emphasizes the interconnectedness of art and music by stressing their similarities in style, content, and context.

FAC 254. AMERICAN MUSICAL THEATER (3). Offers a survey of the American Musical through general musical concepts while developing a working vocabulary of the elements of music. Examines the historical and social context of musical theater in the United States, from its earliest developments in the mid-nineteenth century to present day, and explores its major developments and influence in American culture. Concentrates on written assignments and current approaches to music research.

FAC 255/FAC 255C. MUSIC OF THE TWENTIETH CENTURY (3). A survey of classical music in the western world in the twentieth century. Covers trends such as modality, atonality, serialism, neoclassicism, experimental music, and electronic and computer music and the social contexts surrounding these movements. NOTE: FAC 255C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

FAC 256/FAC 256C. MUSIC IN AMERICAN CULTURE (3). Introduces music as an expression of the unique culture of the U.S.A. and develops critical methods for evaluating and responding to American music. Topics explored in this course include traditional, folk, religious, and art music of the various ethnic groups that comprise the United States, including Anglo-European, African-American, Latin-American, Asian-American, and American Indian. Examines ways the popular music industry in America has served as an expression of cultural trends and investigates ways American composers have created their own aesthetic within the Western classical art tradition.

FINE ARTS: HISTORY (FAHS)

FAHS 211. ART HISTORY: PREHISTORY TO THE PROTO-RENAISSANCE (3). Investigates major art developments from the pre-history to the proto-renaissance in western and non-western traditions. Discusses major works, figures, and world events as they relate to human artistic expression. Prerequisite(s): Majors, minors, or honors students only or permission of instructor required. Cross listing: FAC 211.

FAHS 212. ART HISTORY SURVEY: RENAISSANCE TO PRESENT (3). Examines the style, content, and context of works of art from the Renaissance to the present. Prerequisite(s): Majors or honors students only or permission of instructor required. Cross listing: FAC 212.

FAHS 408E-W. THEMES IN ART HISTORY (3). A revolving seminar examining specialized topics in art history.

FAHS 410. MODERN ART: NEO-CLASSICISM TO 1945 (3). Concentrates on issues of modernism in Western art from the late nineteenth century to approximately 1945, looking closely at how we observe, interpret, and write about art in its historical, religious, and political context. An integral part of this class will be to develop a working definition of "modernism". Prerequisite(s): FAHS 211 or FAC 211 or FAC 200 or permission of instructor.

FAHS 415. CONTEMPORARY ART: 1945 TO THE PRESENT (3). Examines the shift in the art world from Paris to New York after World War II. Explores men and women artists whose work pursues a dialogue about the meaning of all media and whose lives are lived against the social, economic, political and cultural background of their times. Prerequisite(s): FAC 200 or FAHS 211 or HU 203.

FAHS 435. IMAGES OF WOMEN IN ART AND THE POPULAR MEDIA (3). Examines the visual representation of women in both art and the popular media. Emphasizes the examination of the construction of gender utilizing various theoretical models of analysis. Prerequisite(s): FAC 200 or FAC 211 or FAC 212. Cross listing: WGS 435.

FAHS 440. AMERICAN ART: COLONIAL TO PRESENT (3). Examines American art from the pre-colonial era to the present day. Examines the role American art has played in the formation of values such as national identity, class formation, race, gender, and ethnicity. Emphasizing cultural history, considers a variety of media from painting and sculpture to films and theme parks. Prerequisite(s): FAC 200 or FAC 211 or FAC 212.

FAHS 445. HISTORY OF PHOTOGRAPHY (3). Explores the history of photography from its invention in the early 19th century to its practice as a fine art in the present time. Includes critical and analytical readings as well as examination of photographic images in the fine arts. Prerequisite(s): FAC 200 or FAC 211or FAC 212 or FAHS 211 or FAHS 212.

FAHS 450. MEDIEVAL/RENAISSANCE ART (3). Examines art from the late Roman period to the proto-renaissance. Topics include Early Christian, Byzantine, Medieval, Romanesque, and Gothic art, and architecture. Prerequisite(s): FAC 200, or FAC 211, or FAC 212, or permission of instructor.

FAHS 453E-W. SPECIAL TOPICS IN MUSIC AND ART (3). Emphasizes the interconnectedness of art and music by stressing their similarities in style, content, and context. Prerequisite(s): FAC 200 or FAC 211 or FAC 212, Majors and minors only or permission of instructor.

FAHS 490E-W. INDEPENDENT STUDY IN ART HISTORY (1-3). Explores and pursues areas of interest. Prerequisite(s): Approval of department chair.

FAHS 499. SENIOR ART HISTORY THESIS (3). Provides the final step for a degree in Art History. Students write individual thesis in consultation with the program director. Prerequisite(s): Majors only. Senior standing. Permission of instructor required.

FINE ARTS: MUSIC (FAM)

FAM 202E-W. UNIVERSITY CHOIR (0-2). Students will study, prepare, and sing in performance, choral literature from the Gothic to the present.

FAM 203. BEGINNING CLASS VOICE (2). Involves basic vocal technique and music reading for non-music minors or majors with little or no prior vocal experience. Studies very easy classical or popular repertoire.

FAM 204. INTERMEDIATE CLASS VOICE (2). Continuation of FAM 203. Intermediate level vocal technique and music reading. Studies very easy classical or popular repertoire. Prerequisite(s): FAM 203 or permission of instructor required.

FAM 205. BEGINNING CLASS GUITAR (2). Introduces the guitar and music reading for music minors or majors with little or no prior guitar experience. Studies very easy classical or popular repertoire.

FAM 206. INTERMEDIATE CLASS GUITAR (2). Continuation of FAM 205. Focuses on development of music reading. Studies technical patterns and exercises. Easy classical or popular repertoire and improvisation. Prerequisite(s): FAM 205 or permission of instructor.

FAM 214E-W. APPLIED MUSIC: VIOLIN (1). Provides individual instruction in violin.

FAM 216E-W. APPLIED MUSIC: VIOLA (1). Provides individual instruction in viola.

FAM 218E-W. APPLIED MUSIC: CELLO (1). Provides individual instruction in cello.

FAM 220E-W. APPLIED MUSIC: CHAPEL CHOIR (1). Introduces students to the rich variety of Catholic liturgical choral music through preparation for and performances at weekly Masses..

FAM 221E-W. APPLIED MUSIC: FLUTE (1). Provides individual instruction in flute.

FAM 223E-W. APPLIED MUSIC: OBOE (1). Provides individual instruction in oboe.

FAM 225E-W. APPLIED MUSIC: BASSOON (1). Provides individual instruction in bassoon.

FAM 227E-W. APPLIED MUSIC: RECORDER (1). Provides individual instruction in recorder.

FAM 230E-W. COLLEGIUM MUSICUM (0-2). Performing ensemble designed to offer students a chance to explore music from the 13th through the early 18th centuries. Through the use of early instruments and voice, students will develop an understanding of musical forms, performance practices, and styles in both sacred and secular traditions. A wide variety of topics will be examined including early medieval chant, troubadour songs, sacred motets and mass movements, renaissance dances, and music composed at the European courts. Prerequisite(s): FAM 235 or permission of instructor.

FAM 235. FOUNDATIONS OF MUSIC (3). Introduces the fundamental concepts of music. Student acquires understanding of important historical, theoretical and performance issues. Explores basic music elements: sound, the notational system, meter, scales, key, intervals, chords, harmony, and simple forms. Establishes a working vocabulary of musical terms and develops reading, writing, and listening skills essential to music literacy.

FAM 236. BASIC MUSICIANSHIP (2). Designed to improve a student's musicianship skills. Focuses on sight singing and dictation of diatonic melodies in major and minor keys (treble and bass clefs); sight reading of rhythms in simple and compound meters; and performance at the keyboard of scales, intervals, and triads. Prerequisite(s): FAM 235.

FAM 240. BEGINNING CLASS PIANO (2). Introduces the keyboard and music reading to non-music minors or majors with little or no prior keyboard experience. Studies very easy classical or popular repertoire.

FAM 241. INTERMEDIATE CLASS PIANO (2). Members perform selections of their choice, prepare program notes, improve performance skills, join in critique, and hear new repertoire. Outside concert attendance required. Not a "how to play piano" course but "how to play better!" All levels of ability beyond beginner welcome! Prerequisite(s): FAM 240 or permission of instructor.

FAM 246E-W. APPLIED MUSIC: VOICE (1-2). Provides individual instruction in voice. Prerequisite(s): FAM 203 and FAM 204 or permission of instructor. NOTE: Participation in a voice recital required.

FAM 247E-W. APPLIED MUSIC: PIANO (1-2). Provides individual instruction in piano. Prerequisite(s): FAM 240 and FAM 241 or permission of instructor. NOTE: Participation in a piano recital required.

FAM 248E-W. APPLIED MUSIC: GUITAR (1-2). Provides individual instruction in guitar. Accommodates any level of guitar understanding of chords and chord relationships. Advanced levels explore scales and improvisation. Prerequisite(s): FAM 205 and FAM 206 or permission of instructor.

FAM 252E-W. APPLIED MUSIC: BANJO (1-2). Provides individual instruction in banjo.

FAM 259E-W. JAZZ ENSEMBLE (0-2). The Regis Jazz Ensemble explores the American jazz repertoire, covering a variety of styles that developed from the early 20th century to today. Ensemble is open to wind, percussion, piano, bass, guitar, and brass instruments.

FAM 261E-W. APPLIED MUSIC: CLARINET (1-2). Provides individual instruction in clarinet.

FAM 265E-W. APPLIED MUSIC: JAZZ PIANO (1-2). Provides instruction in jazz piano concepts and techniques. Includes melodic improvisation, chord voicing, accompaniment styles in both solo and ensemble settings, and playing by ear.

FAM 269E-W. CHAMBER ENSEMBLE (0-2). The Regis Chamber Ensemble explores music from 1750 to today, concentrating on the wealth of symphonic literature for orchestral strings and woodwinds.

FAM 278E-W. APPLIED MUSIC: BASS (1-2). Provides individual instruction on double bass and/or electric bass guitar.

FAM 280E-W. APPLIED MUSIC: SAXOPHONE (1-2). Provides individual instruction in saxophone.

FAM 282E-W. APPLIED MUSIC: TRUMPET (1-2). Provides individual instruction in trumpet.

FAM 284E-W. APPLIED MUSIC: TROMBONE (1-2). Provides individual instruction in trombone.

FAM 286E-W. APPLIED MUSIC: PERCUSSION (1-2) Provides individual instruction in percussion.

FAM 288E-W. APPLIED MUSIC: HARP (1-2) Provides individual instruction in harp.

FAM 402E-W. CONCERT CHOIR (0-2). Advanced choral ensemble work including more complex and challenging literature as well as on- and off-campus performance. NOTE: Audition required.

FAM 409A. APPLIED VOICE: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction for voice designed for students with prior vocal training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236 or equivalent. Majors and minors only. Permission of instructor required.

FAM 409B. APPLIED VOICE: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 409A. Private instruction for voice designed for students with prior vocal training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 409A or approval of program director required.

FAM 409C. APPLIED VOICE: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 409B. Private instruction for voice designed for students with prior vocal training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency. Culminates in end-of-semester student recital. Prerequisite(s): FAM 409B or approval of program director required.

FAM 409D. APPLIED VOICE: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 409C. Private instruction for the voice. Offers students with substantial prior vocal training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 409C or approval of program director required.

FAM 414E-W. APPLIED MUSIC: ADVANCED VIOLIN (1-2). Provides advanced individual instruction in violin. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 214E-W or permission of instructor.

FAM 415A. APPLIED VIOLIN: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the violin designed for students with prior string training and knowledge of basic music theory. Surveys repertoire form the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 415B. APPLIED VIOLIN: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 415A. Private instruction on the violin designed for students with prior string training. Surveys repertoire from the classical period to the contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 415A or approval of program director.

FAM 415C. APPLIED VIOLIN: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 415B. Private instruction on the violin designed for students with prior string training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the violin. Culminates in end-of-semester student recital. Prerequisite(s): FAM 415B or approval of program director required.

FAM 415D. APPLIED VIOLIN: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 415C. Private instruction on the violin. Offers students with substantial prior string training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 415C or approval of program director.

FAM 416E-W. APPLIED MUSIC: ADVANCED VIOLA (1-2). Provides advanced individual instruction in viola. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 216E-W or permission of instructor.

FAM 417A. APPLIED VIOLA: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the viola designed for students with prior string training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 417B. APPLIED VIOLA: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 417A. Private instruction on the viola designed for students with prior string training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of techniques suitable for student's level of proficiency. Prerequisite(s): FAM 417A or approval of program director.

FAM 417C. APPLIED VIOLA: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 417B. Private instruction on the viola designed for students with prior string training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the viola. Culminates in end-of-semester student recital. Prerequisite(s): FAM 417B or approval of program director.

FAM 417D. APPLIED VIOLA: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 417C. Private instruction on the viola. Offers students with substantial prior string training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 417C or approval of program director.

FAM 418E-W. APPLIED MUSIC: ADVANCED CELLO (1-2). Provides advanced individual instruction in cello. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 218E-W or permission of instructor.

FAM 419A. APPLIED CELLO: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the cello designed for students with prior string training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of performance. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 419B. APPLIED CELLO: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 419A. Private instruction on the cello designed for students with prior string training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 419A or approval of program director.

FAM 419C. APPLIED CELLO: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 419B. Private instruction on the cello designed for students with prior string training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the cello. Culminates in end-of-semester student recital. Prerequisite(s): FAM 419B or approval of program director.

FAM 419D. APPLIED CELLO: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 419C. Private instruction on the cello. Offers students with substantial prior string training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 419C or approval of program director.

FAM 421E-W. APPLIED MUSIC: ADVANCED FLUTE (1-2). Provides advanced individual instruction in flute. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 221E-W or permission of instructor.

FAM 422A. APPLIED FLUTE: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the flute designed for students with prior woodwind training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 422B. APPLIED FLUTE: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 422A. Private instruction on the flute designed for students with prior woodwind training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 422A or approval of program director required.

FAM 422C. APPLIED FLUTE: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 422B. Private instruction on the flute designed for students with prior woodwind training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the flute. Culminates in end-of-semester student recital. Prerequisite(s): FAM 422B or approval of program director required.

FAM 422D. APPLIED FLUTE: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 422C. Private instruction on the flute. Offers students with substantial prior woodwind training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 422C or approval of program director.

FAM 423E-W. APPLIED MUSIC: ADVANCED OBOE (1-2). Provides advanced individual instruction in oboe. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 223E-W or permission of instructor.

FAM 424A. APPLIED OBOE: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the oboe designed for students with prior woodwind training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 424B. APPLIED OBOE: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 424A. Private instruction on the oboe designed for students with prior woodwind training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 424A or approval of program director.

FAM 424C. APPLIED OBOE: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 424B. Private instruction on the oboe designed for students with prior woodwind training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the oboe. Culminates in end-of-semester student recital. Prerequisite(s): FAM 424B or approval of program director.

FAM 424D. APPLIED OBOE: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 424C. Private instruction on the oboe. Offers students with substantial prior woodwind training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 424C or approval of program director.

FAM 425E-W. APPLIED MUSIC: ADVANCED BASSOON (1-2). Provides advanced individual instruction in bassoon. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 225E-W or permission of instructor.

FAM 426A. APPLIED BASSOON: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the bassoon designed for students with prior woodwind training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 426B. APPLIED BASSOON: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 426A. Private instruction on the bassoon designed for students with prior woodwind training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 426A or approval of program director.

FAM 426C. APPLIED BASSOON: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 426B. Private instruction on the bassoon designed for student with prior woodwind training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the bassoon. Culminates in end-of-semester student recital. Prerequisite(s): FAM 426B or approval of program director.

FAM 426D. APPLIED BASSOON: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 426C. Private instruction on the bassoon. Offers students with substantial prior woodwind training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 426C or approval of program director.

FAM 427E-W. APPLIED MUSIC: ADVANCED RECORDER (1-2). Provides advanced individual instruction in recorder. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 227E-W or permission of instructor.

FAM 428A. APPLIED RECORDER: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the recorder designed for students with prior woodwind training and knowledge of basic music theory. Surveys repertoire from the medieval period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 428B. APPLIED RECORDER: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 428A. Private instruction on the recorder designed for students with prior woodwind training. Surveys repertoire from the medieval period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 428A or approval of program director.

FAM 428C. APPLIED RECORDER: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 428B. Private instruction on the recorder designed for students with prior woodwind training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the recorder. Culminates in end-of-semester student recital. Prerequisite(s): FAM 428B or approval of program director.

FAM 428D. APPLIED RECORDER: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 428C. Private instruction on the recorder. Offers students with substantial prior woodwind training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 428C or approval of program director.

FAM 430E-W. CONCERT COLLEGIUM MUSICUM (0-2). Explores an array of literature from Gregorian Chant through the works of J.S. Bach. Advanced participants perform on- and off-campus. Prerequisite(s): FAM 230 and permission of instructor. NOTE: Audition required.

FAM 442E-W. PIANO ENSEMBLE (2). The Piano Ensemble is designed for intermediate to advanced pianists. Offers an ensemble opportunity for piano performance. May include piano duets and/or trios, quartets, quintets, with strings or winds. Prerequisite(s): FAM 247E-W or FAM 467E-W and permission of instructor.

FAM 443A. APPLIED PIANO: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the piano designed for students with prior keyboard training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 443B. APPLIED PIANO: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 443A. Private instruction on the piano designed for students with prior keyboard training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 443A or approval of program director required.

FAM 443C. APPLIED PIANO: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 443B. Private instruction on the piano designed for students with prior keyboard training. Focuses on two pieces from different style periods that demonstrate an upper intermediate to advanced technical proficiency on the keyboard. Culminates in end-of-semester student recital. Prerequisite(s): FAM 443B or approval of program director required.

FAM 443D. APPLIED PIANO: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 443C. Private instruction on the piano. Offers students with substantial prior keyboard training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s); FAM 443C or approval of program director.

FAM 448E-W. GUITAR ENSEMBLE (0-2). Emphasizes styles of music, dynamics, rhythm, and harmonic structure in an acoustic ensemble. Prerequisite(s): FAM 248E or permission of instructor.

FAM 449A. APPLIED GUITAR: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the guitar designed for students with prior fretboard training and knowledge of basic music theory. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 449B. APPLIED GUITAR: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 449A. Private instruction on the guitar designed for students with prior fretboard training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 449A or approval of program director.

FAM 449C. APPLIED GUITAR: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 449B. Private instruction on the guitar designed for students with prior fretboard training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the guitar. Culminates in end-of-semester student recital. Prerequisite(s): FAM 449B or approval of program director.

FAM 449D. APPLIED GUITAR: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 449C. Private instruction on the guitar. Offers students with substantial prior fretboard training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 449C or approval of program director.

FAM 452E-W. APPLIED MUSIC: ADVANCED BANJO (1-2). Provides advanced individual instruction on the banjo. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 252E-W or permission of instructor.

FAM 453A. APPLIED BANJO: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the banjo designed for students with prior fretboard training and knowledge of basic music theory. Surveys repertoire from the 18th century to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 453B. APPLIED BANJO: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 453A. Private instruction on the banjo designed for students with prior fretboard training. Surveys repertoire from the 18th century to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 453A or approval of program director.

FAM 453C. APPLIED BANJO: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 453B. Private instruction on the banjo designed for students with prior fretboard training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the banjo. Culminates in end-of-semester student recital. Prerequisite(s): FAM 453B or approval of program director.

FAM 453D. APPLIED BANJO: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 453C. Private instruction on the banjo. Offers students with substantial prior fretboard training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 453C or approval of program director.

FAM 459E-W. CONCERT JAZZ ENSEMBLE (0-2). The Regis Concert Jazz Ensemble continues to explore material covered in FAM 259 with a focus on performance practice, especially improvisation and arrangement. The ensemble is open to wind, percussion, piano, bass, guitar, and brass instruments. Prerequisite(s): FAM 259E-W and permission of instructor.

FAM 461E-W. APPLIED MUSIC: ADVANCED CLARINET (1-2). Provides advanced individual instruction in clarinet. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 261E-W and permission of instructor.

FAM 462A. APPLIED CLARINET: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the clarinet designed for students with prior woodwind training and knowledge of basic music theory. Surveys repertoire from the classical period to the contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 462B. APPLIED CLARINET: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 462A. Private instruction on the clarinet designed for students with prior woodwind training. Surveys repertoire from the classical period to contemporary styles. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 462A or approval of program director required.

FAM 462C. APPLIED CLARINET: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 462B. Private instruction on the clarinet designed for students with prior woodwind training. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the clarinet. Culminates in end-of-semester student recital. Prerequisite(s): FAM 462B or approval of program director required.

FAM 462D. APPLIED CLARINET: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 462C. Private instruction on the clarinet. Offers students with substantial prior woodwind training a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 462C or approval of program director required.

FAM 465E-W. APPLIED MUSIC: ADVANCED JAZZ PIANO (1-2). Provides advanced instruction in jazz piano concepts and techniques. Includes advanced topics in melodic improvisation, chord voicing, and reharmonization. Prerequisite(s): FAM 265E or permission of instructor.

FAM 466E-W. APPLIED MUSIC: ADVANCED VOICE (1-2). Advanced vocal instruction, including more complex and challenging literature as well as exploring opportunities for on- and off-campus performance. Prerequisite(s): FAM 246E-W and permission of instructor. NOTE: Audition required.

FAM 467E-W. APPLIED MUSIC: ADVANCED PIANO (1-2). Advanced piano instruction, including more complex and challenging literature as well as exploring opportunities for on- and off-campus performance. Prerequisite(s): FAM 247E-W and permission of instructor. NOTE: Audition required.

FAM 468E-W. APPLIED MUSIC: ADVANCED GUITAR (1-2). Advanced instruction, including more complex and challenging literature as well as exploring opportunities for on- and off-campus performance. Prerequisite(s): FAM 248E-W and permission of instructor. NOTE: Audition required.

FAM 469E-W. CONCERT CHAMBER ENSEMBLE (0-2). The Regis Concert Chamber Ensemble explores symphonic literature from 1750 with an emphasis on material that demands a higher level of performance technique and mastery than Chamber Ensemble, FAM 269 (such as concertos and solo repertoire). Prerequisite(s): FAM 269E-W and permission of instructor.

FAM 478E-W. APPLIED MUSIC: ADVANCED BASS (1-2). Provides advanced individual instruction in double bass and/or electric bass guitar. Offers opportunities for on- and off-campus performance. Additional Prerequisite(s): Permission of Instructor required. Prerequisite(s): FAM 278E.

FAM 480E-W. APPLIED MUSIC: ADVANCED SAXOPHONE (1-2). Provides advanced individual instruction on the saxophone. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 280E-W and permission of instructor.

FAM 481A. APPLIED SAXOPHONE: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the saxophone designed for students with prior saxophone training and knowledge of basic music theory. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 481B. APPLIED SAXOPHONE: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 481A. Private instruction on the saxophone designed for students with prior saxophone training and knowledge of basic music theory. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 481A or approval of program director.

FAM 481C. APPLIED SAXOPHONE: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 481B. Private instruction on the saxophone designed for students with prior saxophone training and knowledge of basic music theory. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the saxophone. Culminates in end-of-semester student recital. Prerequisite(s): FAM 481B or approval of program director.

FAM 481D. APPLIED SAXOPHONE: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 481C. Private instruction on the saxophone. Offers students with substantial prior saxophone knowledge a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 481C or approval of program director.

FAM 482E-W. APPLIED MUSIC: ADVANCED TRUMPET (1-2). Provides advanced individual instruction on the trumpet. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 282E-W and permission of instructor.

FAM 483A. APPLIED TRUMPET: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the trumpet designed for students with prior trumpet training and knowledge of basic music theory. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 483B. APPLIED TRUMPET: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 483A. Private instruction on the trumpet designed for students with prior trumpet training and knowledge of basic music theory. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 483A or approval of program director.

FAM 483C. APPLIED TRUMPET: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 483B. Private instruction on the trumpet designed for students with prior trumpet training and knowledge of basic music theory. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the trumpet. Culminates in end-of-semester student recital. Prerequisite(s): FAM 483B or approval of program director.

FAM 483D. APPLIED TRUMPET: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 483C. Private instruction on the trumpet. Offers students with substantial prior trumpet knowledge a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 483C or approval of program director.

FAM 484E-W. APPLIED MUSIC: ADVANCED TROMBONE (1-2). Provides advanced individual instruction on the trombone. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 284E-W and permission of instructor.

FAM 485A. APPLIED TROMBONE: TECHNIQUES AND PERFORMANCE I (1-2). Private instruction on the trombone designed for students with prior trombone training and knowledge of basic music theory. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAM 485B. APPLIED TROMBONE: TECHNIQUES AND PERFORMANCE II (1-2). Continuation of FAM 485A. Private instruction on the trombone designed for students with prior trombone training and knowledge of basic music theory. Focuses on development of technique suitable for student's level of proficiency. Prerequisite(s): FAM 485A or approval of program director.

FAM 485C. APPLIED TROMBONE: TECHNIQUES AND PERFORMANCE III (1-2). Continuation of FAM 485B. Private instruction on the trombone designed for students with prior trombone training and knowledge of basic music theory. Focuses on two pieces from different style periods that demonstrates an upper intermediate to advanced technical proficiency on the trombone. Culminates in end-of-semester student recital. Prerequisite(s): FAM 485B or approval of program director.

FAM 485D. APPLIED TROMBONE: TECHNIQUES AND PERFORMANCE IV (1-2). Continuation of FAM 485C. Private instruction on the trombone. Offers students with substantial prior trombone knowledge a chance to continue private studies. Continues to develop material suitable for performance. May include a student recital. Prerequisite(s): FAM 485C or approval of program director.

FAM 486E-W. APPLIED MUSIC: ADVANCED PERCUSSION (1-2). Provides advanced individual instruction in percussion. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 286E or permission of instructor.

FAM 488E-W. APPLIED MUSIC: ADVANCED HARP (1-2). Provides advanced individual instruction in harp. Offers opportunities for on- and off-campus performance. Prerequisite(s): FAM 288E-W or permission of instructor.

FAM 490E-W. INDEPENDENT STUDY IN MUSIC (1-3). Explores area of special interest. Prerequisite(s): Approval of department chair.

FAM 498E-W. INTERNSHIP IN MUSIC (3). Provides practical experience and intellectual guidance in an area of music. Prerequisite(s): Approval of department chair and director of Academic Internship Program.

FAM 499. SENIOR THESIS: MUSIC IN THE ARTS (3). Offers sequence of practical activities covering topics such as ensemble direction, development of repertoire, designing outreach programs, grant writing, implementation of curriculum and arts management. Prerequisite(s): Majors only. Senior standing.

FINE ARTS: MUSIC HISTORY (FAMH)

FAMH 450E-W. WORLD MUSIC LITERATURE (3). Studies musical practices of diverse cultures, including instrumental and vocal styles, dance, drama, and ceremonies, with an emphasis on research. Prerequisite(s): FAM 235 and FAM 236 or permission of instructor.

FAMH 451. HISTORY OF U.S. FOLK, POP, AND JAZZ (3). Surveys various folk, popular, and jazz styles cultivated in the United States from the 18th century to the present. Research project will explore a topic in American Music. Prerequisite(s): FAM 235 and FAM 236 or permission of instructor.

FAMH 452. EUROPEAN MUSIC LITERATURE (3). Examines Western European art music traditions, through a historical survey of the style, structure, and function of music. Students discover the rich variety of Western European art music while developing a working vocabulary and understanding of musical terms. Improves listening skills and advances the ability of students to articulate relevant observations about music through independent, objective, and critical musical thought. Prerequisite(s): FAM 235 and FAM 236 or permission of instructor.

FAMH 453E-W. TOPICS IN MUSIC AND ART (3). Emphasizes the interconnectedness of art and music by stressing their similarities in style, content, and context. Prerequisite(s): FAM 235 and FAM 236. Majors and minors only. Permission of instructor required.

FAMH 454. HISTORY AND PERFORMANCE OF AMERICAN MUSICAL THEATER (3). Provides a comprehensive approach to learning by providing students with a historical and cultural background to the major developments of Musical Theatre and by developing performance skills through participation in class performances and a cabaret-style concert at the end of the semester (presented by the Department of Fine and Performing Arts). Prerequisite(s): FAM 235 and FAM 236 or permission of instructor required.

FAMH 455E-W. TOPICS IN MUSIC HISTORY (3). Provides an in-depth examination of musical styles and genres, as well as the cultural and historical content in which music was created in each area of study. Emphasizes writing, research, and musical analysis that draws on each student's earlier experiences and training in music theory and history. Prerequisite(s): FAMH 452.

FAMH 457. WOMEN IN MUSIC (3). Using the lenses of gender studies and feminist criticism, this course will examine the historically marginalized roles of women in Western music as composers and performers.

FINE ARTS: MUSIC RECITAL (FAMR)

FAMR 200A/B. FRESHMAN RECITAL HOUR A/B (0). Required for all music majors and minors each semester. Promotes a culture of concert attendance for student and faculty recitals and guest artists. Tracks student attendance for on- and off-campus music events. Prerequisite(s): Majors and minors only. Pass/No Pass grading only.

FAMR 300A/B. SOPHOMORE RECITAL HOUR A/B (0). Required for all music majors and minors each semester. Promotes a culture of concert attendance for student and faculty recitals and guest artists. Tracks student attendance for on- and off-campus music events. Prerequisite(s): Majors and minors only. Pass/No Pass grading only.

FAMR 400A/B. JUNIOR RECITAL HOUR A/B (0). Required for all music majors and minors each semester. Promotes a culture of concert attendance for student and faculty recitals and guest artists. Tracks student attendance for on- and off-campus music events. Prerequisite(s): Majors and minors only. Pass/No Pass grading only.

FAMR 402. MUSIC MINOR RECITAL (0). All music minors perform at least a 20-minute recital that demonstrates ability to perform in several style periods. Music minor recitals are typically given in conjunction with the third semester of techniques and performance. NOTE: Presentation of music minor recital requires successful "hearing" at least one month before recital date. Pass/No Pass grading only.

FAMR 403. JUNIOR RECITAL (0). All music majors with an emphasis in performance are required to perform at least a 30-minute recital that demonstrates the student's ability to perform in three style periods. The Junior Recital is typically given in the junior year in conjunction with the second semester of Techniques and Performance. Prerequisite(s): Majors only. Junior standing. Pass/No Pass grading only.

FAMR 404. SENIOR RECITAL (0). All music majors with an emphasis in performance are required to perform a Senior Recital in their senior year; at least 60 minutes of music that demonstrates a wide variety of musical styles and ability to memorize a portion or all of the music is expected. The Senior Recital is typically given in conjunction with the fourth semester of Techniques and Performance. Prerequisite(s): Majors only. Senior standing. Pass/No Pass grading only.

FAMR 450A/B. SENIOR RECITAL HOUR A/B (0). Required for all music majors and minors each semester. Promotes a culture of concert attendance for student and faculty recitals and guest artists. Tracks student attendance for on- and off-campus music events. Prerequisite(s): Majors and minors only. Pass/No Pass grading only.

FINE ARTS: MUSIC THEORY (FAMT)

FAMT 200. MUSIC THEORY I (3). Students gain fluency in four-part writing and voice leading principles in four-voice textures using root position and inverted triads and seventh chords; analysis of music literature; the identification and use of non-chord tones; the identification of various forms in music; and other in-depth theoretical concepts.

FAMT 201. AURAL SKILLS I (2). Students gain fluency in sight singing and dictation of diatonic melodies; sight reading rhythms using subdivision and syncopation in simple and compound meters; and performance at the keyboard of various diatonic chord progressions.

FAMT 300. MUSIC THEORY II (3). A continuation of concepts and materials learned in Music Theory I. Emphasizes chromatic harmony, various types of modulation, more complex forms, and extended tonality. Co-requisite(s): FAMT 301. Prerequisite(s): FAMT 200 and FAMT 201.

FAMT 301. AURAL SKILLS II (2). A continuation of materials learned in Aural Skills I. Students gain fluency in sight singing and dictation of chromatic melodies, sight reading rhythms with changing and unequal meters, and performance at the keyboard of more complex chord progressions. Co-requisite(s): FAMT 300. Prerequisite(s): FAMT 200 and FAMT 201.

FAMT 350. MUSIC THEORY III (3). A continuation of Music Theory II. Study of the structures and systems used in music throughout the twentieth century, including modality, serialism, neoclassicism, and electronic and computer music. Includes composition and a hands-on music technology component. Prerequisite(s): FAMT 300 and FAMT 301.

FAMT 400. ORCHESTRATION, ARRANGING, AND CONDUCTING (3). Study of instruments in band and orchestra regarding range, color, quality, and technical restriction as applied to scoring for solo and ensemble performance. Fundamental study of conducting, score reading, and arranging skills applicable to instrumental and choral ensembles. Prerequisite(s): FAMT 300 and FAMT 301.

FAMT 401. LOGIC AND PROOF (3). Studies 16th century and 18th century counterpoints. Evaluation materials include both analysis and composition. Prerequisite(s): FAMT 400.

FAMT 430. HEARING THE WORLD: MUSIC AND AUDIO TECHNOLOGY IN CONTEMPORARY SOCIETY (3). Engage creatively and critically with the society around us in artistic and socially aware ways through creation of original audio projects such as studio and live recordings, electronic compositions, radio plays, oral histories, audio postcards, etc. Techniques to be covered include the use of microphones, recording equipment, and audio sequencing/editing software. Cross listing: COM 430. Note: Junior standing required.

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GEOLOGY

A major in Geology is not available.

Geology is the study of the Earth, its materials, processes, and history. Geology courses are offered in support of the Environmental Studies, Core, and Education programs.

GEOLOGY COURSE DESCRIPTIONS (GE)

GE 204E-W. TOPICS IN GEOLOGY (3). Develops course content around a central geological theme on selected topics chosen by the instructor. Co-requisite: GE 205E-W. NOTE: This course has been approved to satisfy the core natural science with laboratory requirement when taken with GE 205E-W.

GE 205E-W. TOPICS IN GEOLOGY LABORATORY (1). Involves laboratory exercises accompanying and reinforcing lecture topics. Co-requisite: GE 204E-W.

GE 208. INTRODUCTION TO GEOLOGY (3). Introduces students to natural science through study of the Earth. Develops student knowledge of geology; notably Earth materials, Earth history, topography, tectonics, fossil fuels, groundwater, and soils. Highlights social and ethical issues. NOTE: Designed primarily for Environmental Studies students and students fulfilling the natural science core requirement. This course has been approved to satisfy the core natural science with laboratory requirement when taken with GE 209. Co-requisite: GE 209.

GE 209. INTRODUCTION TO GEOLOGY LABORATORY (1). Introduces students to scientific inquiry through participation in field and laboratory activities. Involves exercises reinforcing lecture content. Co-requisite: GE 208.

GE 481E-W. SPECIAL TOPICS IN GEOLOGY (1-4). Explores selected topics in the field of Earth science. Course format varies according to topic selected. Prerequisite(s): Completion of the natural science core requirement. Note: Certain topics may include a laboratory.

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HISPANIC STUDIES

A major in Hispanic Studies is available only through the Thematic Major Program.

Hispanic Studies Minor **12 SH**

Twelve upper division semester hours of Spanish courses that deal with Spanish literature or language, Hispanic civilization or Hispanic literature in translation.

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HISTORY AND POLITICS

Dr. Daniel Wessner, Professor, Chairperson

Dr. Gladys Frantz-Murphy, Professor

Dr. Terry Schmidt, Professor

Dr. Daniel Clayton, Associate Professor

Dr. Nicki Gonzales, Assistant Professor

Rev. James Guyer, S.J., Assistant Professor

History Major **39 SH**

Lower Division Requirements *12 SH*

Twelve lower division semester hours of History courses with at least three fields (Asia, Europe, Middle East, United States, World) and two time periods covered (before 1600 and after 1600). One three-semester-hour course constitutes minimum representation.

Upper Division Requirements *27 SH*

HS 495J--Reading Seminar in History	3 SH
HS 495K--Research Seminar in History	3 SH
HS 498E--W-Internship in History	3 SH

Plus 18 upper division semester hours of History courses with at least two fields (Asia, Europe, Middle East, United States) represented. One three-semester-hour course constitutes minimum representation.

History Minor **12 SH**

Upper Division Requirements *12 SH*

Twelve upper division semester hours of History courses selected with the approval of the major advisor.

Politics Major **33 SH**

Lower Division Requirements *9 SH*

POL 231--Introduction to International Relations 3 SH

POL 241--Introduction to Comparative Politics and Government 3 SH

POL 281--Introduction to Political Philosophy 3 SH

Upper Division Requirements *24 SH*

POL 499--Capstone Seminar in Politics 3 SH

An Upper Division History Course 3 SH

Plus 18 upper division semester hours of Politics courses, which must include a minimum of one, three semester hour course, selected from each of the following four areas:

United States ***3 SH***

POL 413--United States Elections and Political Behavior 3 SH

POL 415--Balancing Power 3 SH

POL 421--State and Urban Politics 3 SH

POL 496E-W--Seminar in United States Politics 3 SH

International or Comparative ***3 SH***

POL 432--International Political Economy 3 SH

POL 439--United States Foreign Policy Since World War II 3 SH

POL 445--Comparative Public Policy 3 SH

POL 449--Comparative Foreign Policy 3 SH

POL 451--Environment and International Security 3 SH

POL 493E-W--Seminar in International Politics 3 SH

POL 494E-W--Seminar in Comparative Politics 3 SH

Political Theory

POL 481--Theories of International Relations 3 SH

POL 482E-W--Topics in Political Theory 3 SH

POL 483--American Political Theory 3 SH

Politics and the Law

POL 400--Constitutional Law 3 SH

POL 403--Courts and the Judicial Process 3 SH

POL 404--International Law and Human Rights 3 SH

POL 406--Just and Sustainable Development 3 SH

POL 420--Environmental Politics 3 SH

Internship ***3 SH***

POL 498E-W--Internship in Politics and Law 3 SH

Politics Minor **12 SH**

Upper Division Requirements *12 SH*

Twelve upper division semester hours of Politics courses selected with the approval of the major advisor.

Pre-Law Minor **21-24 SH**

Substantive Courses *15 SH*

PJ 200--Peace and Justice in Theory and Practice 3 SH

PL 452/CR 456--Philosophy of Law 3 SH

POL 400--Constitutional Law 3 SH

POL 404--International Law and Human Rights 3 SH

Plus three semester hours selected from the following:

BA 481A--Business Law I 3 SH

CR/SO 450--Criminology 3 SH

POL 403--Courts and the Judicial Process 3 SH

Skill-based Course

PL 460--Critical Thinking 3 SH

Inter-disciplinary Law Capstone

POL 497--Vocation of Law Capstone 3 SH

Law-Related Internship

POL 498E-W--Internship in Politics and Law* 3 SH

*Required only if the student has not completed a law-related internship through their major.

HISTORY AND POLITICS COURSE DESCRIPTIONS (HS & POL)

HISTORY (HS)

HS 204. WORLD HISTORY II: SUSTAINABLE DEVELOPMENT (3). Examines the environmental foundations of the growth of the world economy from the fifteenth century to the present and past and current societal responses to environmental challenges.

HS 213. SURVEY OF WESTERN CIVILIZATION TO 1600 (3). Studies the evolution of western civilization from the beginnings of civilization through the period of the Reformation. Emphasizes concepts and institutions that have played major roles in the evolution of western civilization. Includes major themes on the formation of the great religions, which have influenced the West, Classical culture, the Middle Ages, the Renaissance, and the Reformation.

HS 214. SURVEY OF WESTERN CIVILIZATION SINCE 1600 (3). Traces the evolution of modern western civilization, and those events and institutions that have had a decisive influence on modern Western culture. Includes major themes on absolutism, the Enlightenment, the French Revolution, the great wars of the 20th century and the ideologies of the modern world.

HS 223. HISTORY OF THE UNITED STATES TO 1877 (3). Surveys the development of United States civilization from the era of discovery, exploration, and settlement to the end of the Reconstruction.

HS 224. HISTORY OF THE UNITED STATES SINCE 1865 (3). Studies the evolution of modern industrial United States from the end of the Civil War to the present.

HS 226. HISTORY OF THE AMERICAN WEST (3). Surveys the major political, social, environmental and cultural changes of the trans-Mississippi American West, from pre-Columbian times to the late 20th Century.

HS 232. WORLD HISTORY SINCE 1500 (3). Traces the origins of an interdependent world through investigation of modern history in a global context. Examines how Europe, relatively insignificant in 1500, came to dominate the globe by 1900. Includes nationalism, decolonization, the Cold War, and the end of bipolarity.

HS 238. SURVEY OF THE MIDDLE EAST (3). An introductory survey of the Middle East focusing on the environmental resource base, regional and cultural identities, and social, economic, and political organization from the founding of Islam to the present.

HS 239. CONTEMPORARY MIDDLE EAST (3). Focuses on the effects of globalization on the natural and human resources of the arid Middle East in the 19th and 20th centuries as local communities sought to gain control over their environment and resources.

HS 253. SURVEY OF ASIAN HISTORY TO THE 16TH CENTURY (3). Surveys the history of East Asia (China, Japan, and Korea) from earliest times to the arrival of Western imperialism.

HS 254. SURVEY OF ASIAN HISTORY SINCE 1850 (3). Provides an overview of East Asia (China, Japan, and Korea) during modern times, emphasizing cultural developments, modern institutions, increased trade, industrialization, imperialistic intrusions, destructive warfare, and burgeoning population.

HS 311. REVOLUTION/RESISTANCE: 19TH CENTURY IN PHILOSOPHY AND LITERATURE (3). Examines European and American philosophical and literary works from the 19th century through the lenses of political, historical and scientific developments of the era, such as the French and American Revolutions, the rise of nationalism, the industrial revolution, the rise of the mass culture, the women's sufferance movement, and the abolition movement. Prerequisite(s): RCC 200, EN 210, and PL 250.

HS 346. HISTORY OF ISLAM (3). Explores foundational texts of Islam within their historical context, the emergence of sectarianism in the development of Islam as it spread to the rest of the world, and contemporary and political Islam.

HS 403/303. WORLD HISTORY: AN ECOLOGICAL PERSPECTIVE (3). Beginning with geographical parameters, surveys ecological, cultural, and civilizational regions of the world and their interactions from pre-history to the present. NOTE: Additional coursework required for 400-level.

HS 406. HISTORY OF THE AMERICAN SOUTHWEST (3). Provides an overview of the regions social, cultural, and political history. Explores Southwestern history from the eve of the Spanish explorations through the Spanish and Mexican periods, and through the American occupation of the region-1848 to the present. Prerequisite(s): Junior or Senior standing.

HS 410. THE RENAISSANCE IN EUROPE (3). This interdisciplinary course examines significant political, military, social, religious, and cultural developments in Europe during the Renaissance, from the Black Death of the 14th Century through the end of the Wars of Religion in 1650. Prerequisite(s): Junior or Senior standing.

HS 412. IMMIGRATION IN AMERICAN HISTORY (3). Examines the history of immigration into the United States from the early 19th century to the present. Explores federal policies, public debates surrounding the issue of immigration, and the social, economic, political consequences of immigration and the historical experiences of immigrants. Cross listing: PJ 412.

HS 415. READINGS IN NATIVE AMERICAN HISTORY (3). Surveys a variety of texts as they examine some of the major themes and experiences that have defined and shaped the history of Native American peoples, from Pre-Columbian times to the present.

HS 416. LABOR IN THE AMERICAS (3). Examines the history of labor and the working class in the United States with particular attention to the transnational nature of labor and laborers across national borders. Cross listing: PJ 476.

HS 425. THE CIVIL WAR AND RECONSTRUCTION: 1848-1877 (3). Summarizes the history of the United States. Includes the war with Mexico (1840s), the presidencies of Abraham Lincoln and Jefferson Davis, the prosecution of the war between the states, the diplomacy of both the union and the confederate governments, the politics of emancipation and reconstruction policy. Provides an overview of the ongoing efforts of historians to evaluate and interpret this era.

HS 426. THE AGE OF ENTERPRISE, 1865-1917 (3). Studies the United States from the end of the Civil War to World War I, emphasizing transportation, industrial expansion, the rise of organized labor, populism, and progressivism and the growth of American power. Prerequisite(s): Junior or Senior standing or permission of instructor.

HS 427. 20TH CENTURY UNITED STATES, 1917-1945 (3). Studies the history of the United States from intervention in World War I to the end of World War II, emphasizing the Depression and the New Deal.

HS 428. UNITED STATES HISTORY, 1945 TO THE PRESENT (3). Studies recent events and trends in the United States since the end of World War II.

HS 429. UNITED STATES IN THE 1960'S AND 70'S (3). Studies the United States from the election of JFK to the Reagan Revolution, examining politics, culture and society.

HS 430. HISTORY OF COLORADO (3). Surveys Indian, Spanish, French, and United States influences; the impact of traders, trappers, miners, cattlemen and farmers; the creation and organization of the Territory; the movement for statehood and the problems of a rapidly growing commonwealth.

HS 437. THE WEST IN UNITED STATES HISTORY (3). Includes an inquiry into the influence of the West on United States history, the settlement of the western regions, problems of frontier transportation and finance, and the organization of new government entities.

HS 446. HISTORY OF ISLAM (3). Explores foundational texts of Islam within their historical context, the emergence of sectarianism in the development of Islam as it spread to the rest of the world, and contemporary and political Islam.

HS 451. HISTORY OF PREMODERN JAPAN (3). Traces themes from earliest times into the Tokugawa period. Examines Shintoism, Buddhism, Chinese influences, the Japanese genius for adaptation, the rise of the samurai class, cultural advances, and institutional and social developments that grounded the modern transformation. Prerequisite(s): Junior standing or permission of instructor.

HS 452. HISTORY OF MODERN JAPAN (3). Studies Japan's attempts, beginning in the mid-19th century, to face the Western challenge, internal reforms, the Meiji restoration of the emperor, the astounding efforts of modernization, involvement with imperialism and war, adventures in China, the struggle at home between the forces of militarism and democracy, the Pacific war and occupation and the economic miracle. Prerequisite(s): Junior standing or permission of instructor.

HS 453. HISTORY OF IMPERIAL CHINA (3). Studies the dynastic cycles, Confucianism and Taoism, in their historical settings; the "barbarian" threat, the Golden Ages of Chinese culture; the tributary system; the early European arrivals; the Rites controversy; and Western fascination for Chinese ways. Concludes with the Qing dynasty in the early 1800s. Prerequisite(s): Junior or Senior standing or permission of instructor.

HS 454. HISTORY OF MODERN CHINA (3). Examines the institutions and developments of the late 19th and 20th centuries. Includes the Self-Strengthening Movement, Western imperialism, the transformation of the gentry and peasant classes, the use of revolutions, the rise of the Communist and Nationalist parties, the Maoist cult, the Cultural Revolution and subsequent developments. Prerequisite(s): Junior standing or permission of instructor.

HS 457. THE PACIFIC WAR: THE ROAD TO PEARL HARBOR AND NAGASAKI (3). Sorts out and evaluates the many interpretations of the war. Relying on books and/or films, traces the struggle between Japan and the United States, emphasizing Japan. Examines imperialistic military adventurism versus liberal democracy. Studies Japanese and American goals and diplomacy over issues in the western Pacific, the domestic implications for Japan and the impact of the war on Japanese society. Prerequisite(s): Junior or Senior standing or permission of instructor.

HS 464. 19TH CENTURY EUROPE, 1789-1914 (3). Studies the great age of European dynamism emphasizing political and economic events. Includes the French Revolution, industrialization, the rise of the working class, Marxism, unification of Italy and Germany, nationalism, the New Imperialism and the origins of World War I. Prerequisite(s): Junior standing.

HS 465. EUROPE FROM 1914 T0 1945 (3). Studies the transformation of Europe from World War I emphasizing military, economic, political, and ideological developments. Includes World War I, Versailles, the rise of totalitarianism, World War II, the collapse of the European empires and the loss of European preeminence.

HS 468. MODERN GERMAN HISTORY (3). Studies the course of German history from 1815 to 1945. Emphasizes the age of revolution, the evolution of German nationalism, the unification movement, Bismarck and Imperial Germany, the First World War and Versailles, the Weimar Republic, Hitler and the Third Reich and Germany's involvement in World War II. Also emphasizes the origins of the Third Reich.

HS 468E-W. TOPICS IN EUROPEAN HISTORY (3). Provides an in-depth analysis of topics such as economic and social history, women and gender, religion, and the Cold War in European history.

HS 469E-W. FRAME OF REFERENCE (3). Provides an in-depth analysis of topics such as economic and social history, women and gender, or religion, and the Cold War.

HS 477. THE MODERN MIDDLE EAST (3). Examines the Ottoman Empire and Iran from their incorporation into the world economy beginning in the sixteenth century to their recreation as nation-states on the basis of their strategic location and resource base following World War I. Cross listing: PJ 477.

HS 483E-W. MODEL LEAGUE OF ARAB STATES (3). Provides a participatory simulation experience in international relations. Students represent a particular Arab state, serve on one of five committees, and attend a 3-4 day Model League in Colorado and/or elsewhere. Arab states covered vary with each offering. Prerequisite(s): Permission of instructor.

HS 486. OIL AND WATER IN THE MIDDLE EAST (3). From the peripheralization of the economy of the marginal climatic zone of the Middle East in the nineteenth center to the far-reaching consequences of global dependence on fossil fuel in the present. Cross listing: ENVS 486 and PJ 488.

HS 489E-W. TOPICS IN EAST ASIAN HISTORY (3). Provides an in-depth analysis of a significant East Asian problem. Content varies from year to year. May include the communist revolution in China, the Meiji Restoration, the Nanjing (Nationalist) Decade in China, Japanese democracy in the inter-war years, the Korean War, or imperialism in East Asia. Prerequisite(s): Junior standing and permission of instructor.

HS 490E-W. INDEPENDENT STUDY IN HISTORY (1-3). Offers an opportunity for independent exploration of areas of interest under the direction of a department member. Prerequisite(s): Approval of department chair.

HS 495E-W. SEMINAR IN HISTORY (3). Focuses on the application of research methodology appropriate to the seminar topic. Prerequisite(s): Permission of instructor.

HS 495J. SEMINAR IN HISTORY: READING SEMINAR (3). One of two seminars in historiography required of all History majors, the Reading Seminar focuses on critical analysis of selected themes in historical writing. The Reading Seminar is team-taught by members of the History faculty.

HS 495K. SEMINAR IN HISTORY: RESEARCH SEMINAR (3). One of two seminars in historiography required of all History majors, students in the Research Seminar engage in the process of researching, writing, and presenting a major seminar paper. The Research Seminar is supervised by the History faculty.

HS 498E-W. INTERNSHIP IN HISTORY (3). Provides practical experience in applied history. Students are placed according to their interest at national archives, museums, historical societies, public interest groups, nonprofit organizations, international businesses, at the local, regional, national, or international level. Includes research work in history with the Department's faculty. Prerequisite(s): Approval of department chair and director of Academic Internship Program. NOTE: 10-20 hours per week required.

POLITICS (POL)

POL 215. INTRODUCTION TO UNITED STATES NATIONAL POLITICS (3). Studies the basic institutions of American government and the forces that shape governmental action. Examines the Constitution, the role of the presidency, federal-state relations, the party system, and the operation of the Congress and the courts.

POL 231. INTRODUCTION TO INTERNATIONAL RELATIONS (3). Evaluates the elements, relationships, issues, and problems of contemporary international relations. Includes national systems, superpower relations, diplomacy, war, international organizations, arms control, North-South relations, and interdependency.

POL 241. INTRODUCTION TO COMPARATIVE POLITICS AND GOVERNMENT (3). Compares and evaluates power, policy, politics, and government in contemporary nation states. Includes political culture and socialization, governmental structures and performance in political systems.

POL 281. INTRODUCTION TO POLITICAL PHILOSOPHY (3). Introduces a variety of philosophies and alternative visions of social organization, politics, government, economics, peace, and justice. Examines underlying assumptions, propositions, and potential implications of particular political attitudes, processes and policies.

POL 400. CONSTITUTIONAL LAW (3) Comparative analysis of the US Constitutional legal system to other systems, with a primary focus on the US system. Covers a standard undergraduate law text. Prerequisite(s): POL 281, POL 241, POL 231, or permission of instructor. Note: Junior or Senior standing or permission of instructor required. Cross listing: CR 401.

POL 403. COURTS AND THE JUDICIAL PROCESS (3). Explores administration of justice, emphasizing United States systems. Focuses on judicial decision-making and procedures in federal and state judicial systems. Prerequisite(s): Junior standing or permission of instructor required. Cross listing: CR 403.

POL 404. INTERNATIONAL LAW AND HUMAN RIGHTS (3). Examines how International Law has become a process of normative regime-building that secures the inherent Human Rights of all people with the help of global monitoring, domestic education and law enforcement and international discourse through the UN system. Prerequisite(s): POL 215, POL 241, or POL 261. Cross listing: PJ 403.

POL 406. JUST AND SUSTAINABLE DEVELOPMENT (3). Integrates knowledge of development practice and theory from the perspective of communities, states, and the global system. Builds on community-based models of just and sustainable development success. Interdisciplinary, drawing on health, environment, politics, business and law. Prerequisite(s): POL 231, POL 241, or POL 281. Cross listing: ENVS 416

POL 413. UNITED STATES ELECTIONS AND POLITICAL BEHAVIOR (3). Examines U.S. elections in the context of the political arena. Emphasizes political parties, special interest groups, voting behavior, and campaign strategies. Prerequisite(s): Junior standing or permission of instructor required.

POL 415. BALANCING POWER (3). Examines institutions, functions, relations, and powers of Executive, Legislative and Judiciary coordinate branches of the US federal government, and countervailing federalist powers. Case studies of leading models of the Presidency, Congress, and Supreme Court. Prerequisite(s): POL 215.

POL 417. URBAN-RURAL POLITICS (3). Covers urban and rural conflicts of interest which pervade the politics of nation-states. Compares and contrasts US regional issues with those concerns of other nation-states where cities and agricultural communities contend over power, infrastructure, and values. Prerequisite(s): POL 231, POL 241, or POL 281.

POL 420. ENVIRONMENTAL POLITICS (3). Uses four case studies of environmental progress to drive analysis of local, regional, national, and global levels of dealing with change and conservation. Examines civil society, state and UN system approaches to building environmental norms that shape policy and legislation. Prerequisite(s): POL 231, POL 241, or POL 281. Cross-listing ENVS 420. Junior standing or permission of instructor.

POL 421. STATE AND URBAN POLITICS (3). Explores state and urban political systems as they function within the American federal structure. Emphasizes governmental functions, interactions, structures, constraints and resources. Prerequisite(s): Junior or Senior standing or permission of instructor required. Cross listing: CR 421.

POL 432. INTERNATIONAL POLITICAL ECONOMY (3). Analyzes the interactions and interrelationships between political and economic factors at the global level. Factors include monetary management, trade, multinational corporations, foreign aid, cartels, and debt. Considers Western and North-South systems. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 432, ENVS 432 and PJ 454.

POL 439. UNITED STATES FOREIGN POLICY SINCE WORLD WAR II (3). Reviews and evaluates the nature and conduct of U.S. foreign policy since 1945. Considers policies adopted by the U.S. to deal with the perceived international system, including intended outputs and actual outcomes of policy, and contemporary challenges. Prerequisite(s): POL 231 or POL 241. Junior or Senior standing required. Cross listing: PJ 438.

POL 445. COMPARATIVE PUBLIC POLICY (3). Provides a comparative examination of public policy in western industrialized nation-states emphasizing the interaction and interdependency of politics and economics. Evaluates basic issues of public policy including distribution, extraction, and regulation focusing on identifying both the range of possible choices and the actual outcomes of adopted policies under a variety of circumstances. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 445 or ENVS 445 or PJ 446. NOTE: Junior or Senior standing required.

POL 449. COMPARATIVE FOREIGN POLICY (3). Comparative description and evaluation of the foreign policies of a variety of contemporary nation-states, emphasizing systematic conditions, national priorities and objectives, and external outputs and outcomes. Future controversies and challenges will be identified, discussed, and evaluated. Prerequisite(s): POL 231 or POL 241 or permission of instructor. Cross listing: PJ 449. NOTE: Junior or Senior standing required.

POL 451. ENVIRONMENT AND INTERNATIONAL SECURITY (3). Describes and evaluates environmental processes and conditions that affect contemporary and future international and human security. Examines causes, forms, and consequences of environmental scarcity and degradation. Prerequisite(s): POL 231 or POL 241. Cross listing: ENVS 425.

POL 481. THEORIES IN INTERNATIONAL RELATIONS (3). Explores primary theoretical approaches to understanding international relations, including individual, state, and systemic levels of analysis, analyzed from realist, idealist, and radical perspectives. Compares and analyses theories by their assumptions, major assertions, and empirical manifestations and implications for present and future international relations. Prerequisite(s): POL 231, POL 281, POL 241, or equivalent. NOTE: Junior or Senior standing required.

POL 482E-W. TOPICS IN POLITICAL THEORY (3). Provides an intensive examination of the nature and aims of various forms of political theory, specific periods of political thought, major political thinkers, or significant topics in political theory. Cross listing: PJ 482E-W. NOTE: Junior or Senior standing required.

POL 483. AMERICAN POLITICAL THEORY (3). Examines the historical context, religious and secular bases, and contending political and economic theories that underlie a spectrum of American thought. "American" considers inclusively and compares the northern, central and southern America. Prerequisite(s): POL 281, equivalent, or permission of instructor. Cross listing: PJ 482F and PL 451.

POL 490E-W. INDEPENDENT STUDY IN POLITICS (1-3). Offers an opportunity for independent exploration of areas of interest under the supervision of department member. Prerequisite(s): Approval of department chair.

POL 493E-W. SEMINAR IN INTERNATIONAL POLITICS (3). Provides an intensive study of selected issues and problems of international politics, emphasizing individual research interests. Includes preparation and presentation of a major research project. Prerequisite(s): POL 231 or POL 241. Junior standing.

POL 494E-W. SEMINAR IN COMPARATIVE POLITICS (3). Provides an intensive study of selected issues, problems, and regions in comparative politics, emphasizing individual research interests. Includes preparation and presentation of a major research project. Prerequisite(s): POL 231 or POL 241. Junior standing.

POL 495E-W. SEMINAR IN POLITICS (3). Provides an intensive study of selected topics, issues, or problems in political science. Includes preparation and presentation of a major research project. Prerequisite(s): Junior standing.

POL 496E-W. SEMINAR IN UNITED STATES POLITICS (3). Provides an intensive study of selected issues of U.S. politics, emphasizing individual research projects. Includes preparation and presentation of a major research project. Prerequisite(s): Junior standing.

POL 497.VOCATION OF LAW CAPSTONE (3). Provides pre-law minors the opportunity to study and consult closely with their professor, pre-law advisor, and practitioners of law in preparation for graduate studies and diverse vocations related to the practice of law. Prerequisite(s): Junior or Senior standing. Enrollee's should have substantially completed all other pre-law minor requirements.

POL 498E-W. INTERNSHIP IN POLITICS AND LAW (3). Offers an opportunity for placement in a governmental organization or private institution involved in political processes. Progress is guided and monitored by the site supervisor and the faculty sponsor. Site selection emphasizes the best combination of prior academic learning and on-the-job experience. Prerequisite(s): Junior or Senior standing. Approval of Departmental Chair and director of Academic Internship Program.

POL 499. CAPSTONE SEMINAR IN POLITICS (3). Provides majors in Politics the opportunity to work closely with the professor in an examination of the selected topic(s). This work will culminate in the production of a major paper equivalent to a senior thesis. Utilization of professional literature (both printed and electronic) will be required during the research process. Prerequisite(s): Senior standing.

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HONORS PROGRAM

Dr. Thomas Bowie, Program Director

Dr. J. Thomas Howe, Assistant Professor

The Honors Program at Regis College is an alternative way of meeting the College's Core requirements. At least 27 semester hours of Honors courses substitute for a portion of the Core curriculum. The honors curriculum has two major components: a five-semester sequence of Integrative Seminars, and a requirement for dedicated Core replacement courses, which can be offered by any department.

The Integrative Seminars: In the honors curriculum, there is a five-course sequence that replaces standard integrative Core courses. Each seminar is organized under a broad theme that invites interdisciplinary conversation and thus is taught by faculty members from different disciplines. Each seminar takes its charter from the University Mission Statement and Core Philosophy Statement, drawing course objectives and a potential reading list from the synergy between these grounding documents. Each of these courses is thematically oriented and historically recursive.

Dedicated Core Replacements: All departments have an opportunity to teach an Honors section of their Distributive Core courses. Each of these honors offerings meets certain protocols--such as expectations for greater depth or student involvement--and is approved by the Honors Advisory Council. These sections are open primarily to honors students, however, instructors have the option to grant permission to students to join the seminar.

The most accomplished students accepted into Regis College are invited each spring to make application to participate in this more rigorous and interdisciplinary curriculum. The Honors Program is competitive and normally limited to 42 students per year. Participation in Honors also promotes integration of a student's intellectual life with personal, community, and world experiences. All Honors students prepare either a Senior Thesis or a Senior Portfolio, so the program is especially well suited for anyone planning on graduate study or a professional program such as law or medicine. To be distinguished as an honors graduate, a student must maintain a 3.500 cumulative grade point average, complete at least 27 semester hours of dedicated honors courses, and complete either a Senior Thesis or a Senior Portfolio. Students interested in the Honors Program should contact the director to apply by March 1st of the year they intend to matriculate at Regis University. Honors scholarship consideration will be given to all honor applications received by March 1st.

All Honors students take a special Honors section of the following Core courses:

RCC 200H--Honors Writing Seminar: The Idea of a University	3 SH
RCC 300H--Honors Seminar: Tradition and Innovation	3 SH
RCC 410H--Honors Seminar: Chaos and Order	3 SH
RCC 420H--Honors Seminar: Justice for All	3 SH
RCC 430H--Honors Seminar: Magis and the Search for Meaning	3 SH

In addition to the Integrative seminars, all Honors students also take at least four other honors courses, which may include three semester hours of the following:

HO 490E-W--Independent Study in Honors	1-3 SH
HO 493A--Honors Thesis Research Seminar A	0-2 SH
HO 493B--Honors Thesis Research Seminar B	0-2 SH
HO 499--Honors Thesis	0-2 SH

HONORS COURSE DESCRIPTIONS

INTEGRATIVE SEMINARS

RCC 200H. HONORS WRITING SEMINAR: THE IDEA OF A UNIVERSITY (3). As the foundational offering in a five-semester honors sequence, this course begins a series of historically recursive seminars that bring the traditions of Christianity and classical learning into fruitful engagement with new developments in culture and thought. Examines the human heart and mind, the timeless struggle between reason and emotion, situating the conversation within an ongoing dialog on the nature of education and a university's role in fostering it. NOTE: Honors students only.

RCC 300H. HONORS SEMINAR: TRADITION AND INNOVATION (3). As the second course in a five-semester sequence, this course draws upon the intellectual tradition commonly called the humanities as it investigates the play between tradition and innovation in the human story. Prerequisite(s): RCC 200H or permission of instructor. NOTE: Honors students only.

RCC 410H. HONORS SEMINAR: CHAOS AND ORDER (3). As the third course in a five-semester honors sequence, this course invites students to consider the human person in relation to both society and the natural world. Uses a historically recursive approach, to investigate the scientific method and induction as modes of understanding our world. Prerequisite(s): RCC 200H & RCC 300H or permission of instructor. NOTE: Honors students only.

RCC 420H. HONORS SEMINAR: JUSTICE FOR ALL (3). As the fourth course in a five-semester honors core sequence, this team-taught interdisciplinary course examines the implications of "justice for all" in a global context. The course examines historical and contemporary notions of peace and justice as it cultivates an international perspective on fundamental questions of peace, security, and justice. Prerequisite(s): RCC 410H or permission of instructor. NOTE: Honors students only.

RCC 430H. HONORS SEMINAR: MAGIS AND THE SEARCH FOR MEANING (3). Explores the Jesuit concept of magis in relation to the fundamental human quest for meaning. Drawing upon a variety of personal and literary narratives that seek to come to terms with the central question animating the Regis core experience, "How ought we to live?", this historically recursive and interdisciplinary course will end with a profound reflection on what it means to be in our time. Prerequisite(s): RCC 410H or permission of instructor. NOTE: Honors students only.

RCC 490E-W. INTEGRATIVE CORE (3). Focuses around the themes of Diversity & Cultural Tradition, Global Environmental Awareness, Justice & the Common Good, or Search for Meaning. Deliberately value-laden and emphasizes Jesuit values. Examines relevant fundamental issues and the student's role in an increasingly interconnected world. Prerequisite(s): Junior standing or completion of Distributive Core required.

HONORS (HO)

HO 490E-W. INDEPENDENT STUDY IN HONORS (1-3). Offers an opportunity to explore an idea, issue, problem, or project from an interdisciplinary perspective with the consent and collaboration of an instructor. Prerequisite(s): Approval of director of the Honors Program.

HO 493A. HONORS THESIS RESEARCH SEMINAR A (0-2). Focuses on the application of research methodology appropriate to the student's thesis topic. Students conduct research, complete a literature review, prepare an annotated bibliography, and present a specific proposal for their thesis. Prerequisite(s): Junior standing.

HO 493B. HONORS THESIS RESEARCH SEMINAR B (0-2). A continuation of HO 493A. Focuses on the application of research methodology appropriate to the student's thesis topic. Students conduct research, complete a literature review, prepare an annotated bibliography, and present a specific proposal for their thesis. Prerequisite(s): Senior standing.

HO 499. HONORS THESIS (0-2). Students prepare the honors thesis produced in HO 493A and HO 493B for presentation in a defense or symposium. Students submit final drafts of the thesis, prepare the document for permanent binding and submission to the library archives, and make a public presentation of their work. Prerequisite(s): HO 493A and HO 493B. Senior standing.

HONORS DISTRIBUTIVE CORE COURSE DESCRIPTIONS

BIOLOGY (BL)

BL 261H. HONORS MOLECULAR AND CELLULAR BIOLOGY LABORATORY AND SEMINAR (2). Involves laboratory exercises accompanying and reinforcing lecture topics; introduces techniques for exploring cell structure and function, emphasizing recombinant DNA. Seminar readings explore topics in greater depth and link biological topics to broader academic themes. Co-requisite: BL 260. NOTE: Students with AP credit are not required to take BL 260 as a co-requisite. One three-hour laboratory and one seminar session per week. Honors students only or permission of instructor.

BL 263H. HONORS ORGANISMIC BIOLOGY LABORATORY AND SEMINAR (2). Involves laboratory exercises accompanying and reinforcing lecture topics. Includes dissection of representative organisms and fieldwork. Seminar readings explore topics in greater depth and link biological topics to broader academic themes. NOTE: One three-hour laboratory and one seminar session per week. Honors students only or permission of instructor.

BL 414H. HONORS GENETICS SEMINAR (1). Develops student understanding of the historic development, social context, and primary literature of genetics via discussion of readings in a seminar format. Prerequisite(s): BL 260 and BL 262. Co-requisite: BL 414. NOTE: Honors students only or permission of instructor.

COMMUNICATION (COM)

COM 210H. HONORS SPEECH COMMUNICATION (3). Provides knowledge and skills to enable students to lead others more effectively through improved presentational communication in a variety of contexts. Includes developing a more meaningful voice based on ethical communication, audience engagement, and thoughtful responses to contemporary issues. NOTE: Honors students only.

ECONOMICS (EC)

EC 200H. HONORS INTRODUCTION TO THE AMERICAN ECONOMY (3). Examines the history and development of the market economy and the effectiveness of relatively free markets in allocating society's scarce resources to their best uses. Discusses other economic systems and the role of government in correcting shortcomings of the market system including externalities, cyclical instability and income distribution. NOTE: Honors students only.

ENGLISH (EN)

EN 250H. HONORS LITERATURE MATTERS (3). Undertakes detailed analysis of poetry, pose, and drama; offers students the opportunity to research a specific area of study. Explores aesthetic, ethical, and social values. Students engage texts through inquiry, critical thinking, analysis, and evaluation. NOTE: Honors students only.

EN 300H. HONORS ENGLISH (3). Undertakes detailed analysis of primary texts; offers students the opportunity to research a specific area of study. Explores aesthetic, ethical, and social values. Students engage texts through inquiry, critical thinking, analysis, and evaluation. Prerequisite(s): RCC 200H AND RCC 300H. NOTE: Honors students only.

PHILOSOPHY (PL)

PL 270H. HONORS PHILOSOPHICAL EXPLORATIONS (3). An introductory course in philosophy which acquaints students with the range of questions and issues raised in both philosophical tradition and contemporary thought. Engages students in a critical analysis and evaluation of different philosophical positions, including their own. NOTE: Honors Students only.

PSYCHOLOGY (PY)

PY 250H. HONORS GENERAL PSYCHOLOGY (3). Introduction to the scientific study of behavior and mental processes, including the biological basis of behavior, sensation/perception, learning, memory, cognition, language, motivation, emotion, intelligence, personality, social behavior, psychological disorders, and therapy. Addresses the applicability of psychology to understanding societal problems. NOTE: Honors Students only.

RELIGIOUS STUDIES (RS) AND RELIGION AND THEOLOGY (RT)

RT 201H. HONORS RELIGION AND THE HUMAN QUEST (3). Cultivates curiosity about what it means to be human in the fact of the sacred, the ultimate, the mystery of existence, and how different people historically have understood this. Develops and enhances ability to evaluate critically various approaches to existential and social questions about meaning, suffering, goodness, and ultimacy. NOTE: Honors students only.

RT 411H. HONORS RELIGIOUS STUDIES (3). Explores themes central to the study of religion, such as, classics of Christian thought, major thinkers, topics in Christianity, including church history, ethics, or spirituality; topics from Old and New Testament studies; intersections between various traditions, as well as between Religious Studies and other disciplines. Prerequisite(s): RT 201H or permission of instructor. NOTE: Honors students only.

HUMANITIES

Humanities courses offer an integrated approach to the liberal arts. Regis believes that a multi-disciplinary approach to learning can best help the undergraduate achieve the aims of a broad general education and provide a solid basis for more specialized learning in upper division courses.

Representative works from the literature and history of Western people are examined within the context of the philosophy, art, and music that helped shape Western civilization.

ENROLLMENT

Lower division courses (except for the Humanities Colloquium) are open to all Regis College students. Upper division courses may require the permission of the instructor, and may have lower division prerequisites. The Regis College Dean's Office may be contacted for further information.

HUMANITIES COURSE DESCRIPTIONS (HU)

HU 365. A LITERARY TOUR OF IRELAND (3). Introduces students to the works and work places of such writers as Yeats, Shaw, Synge, Beckett, Kavanagh, Behan, Joyce, and others. Studies a variety of genres and disciplines, and will visit important spiritual and intellectual places while in Ireland.

HU 492E-W. TOPICS IN HUMANITIES (3). Provides a value-based approach to explore special topics focusing on the integration of literature, humanities, and the arts. Prerequisite(s): EN 210 or HU 201.

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LEARNING SUPPORT

Courses designated by the "LS" prefix are available to Regis College students as electives in their program of study. The courses are designed to develop skills necessary for successful college-level academic work.

LEARNING SUPPORT COURSE DESCRIPTIONS (LS)

LS 103. MATH LEARNING STRATEGIES (1). Provides help for students with learning difficulties in the areas of mathematics or science. Emphasizes better self-understanding as learners in these disciplines. Enables students to select and employ appropriate and effective learning/study strategies. Co-requisite: Any Mathematics course.

LS 201. READING DEVELOPMENT (1). Provides structured opportunities to develop reading rate and comprehension through wide reading practices. Note: Service learning component required.

LS 210. READING EFFICIENCY (1). Develops strategies to increase ability to process information while reading. Studies methods of recording meanings from text which improve memory. Primarily a reading rate and memory improvement course requiring basic reading ability.

LS 230. BASIC WRITING WORKSHOP (1). Develops ability to write clearly and effectively, and organize and develop ideas through frequent writing practice. Provides opportunities for individual conferences with the instructor and for small group writing and editing sessions with other students.

LS 231. BASIC WRITING WORKSHOP II (1). Continuation of LS 230. Provides additional study of analytical and argumentative writing with both lecture and workshop sessions. Includes significant research component to support students work in seminar courses. NOTE: Commitment Program students only.

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MATHEMATICS

Dr. James Seibert, Associate Professor, Chairperson

Dr. Suzanne Caulk, Associate Professor

Dr. Linda Duchrow, Associate Professor

Dr. Diane Wagner, Associate Professor

Dr. Timothy Trenary, Assistant Professor

DEPARTMENTAL REGULATIONS

The modern language recommended for mathematics majors planning to enter graduate school is either French or German.

Mathematics Major	**24-36 SH**
*Lower Division Requirements**	*0-12 SH*
MT 360A--Calculus I	4 SH
MT 360B--Calculus II	4 SH
MT 360C--Calculus III	4 SH
Upper Division Requirements	*24 SH*
Twenty-four upper division semester hours of Mathematics courses, which must include:	
MT 401--Logic and Proofs	3 SH
MT 415--Linear Algebra	3 SH
MT 423A--Abstract Algebra I	3 SH
Upper Division Mathematics Electives	15 SH
Strongly recommended courses, especially for students planning to go to graduate school include:	
MT 454--Real Analysis	3 SH
MT 480--Complex Analysis	3 SH

Mathematics Minor	**12-20 SH**
*Lower Division Requirements**	*0-8 SH*
MT 360A--Calculus I	4 SH
MT 360B--Calculus II	4 SH
Upper Division Requirements	*12 SH*

Twelve upper division semester hours of Mathematics courses beyond the Core Studies requirement, selected with the approval of the major advisor.

* Lower division major/minor requirements may not be required depending upon mathematics placement.

MATHEMATICS COURSE DESCRIPTIONS (MT)

MT 201. COLLEGE ALGEBRA (3). Includes algebraic operations, equations and inequalities, functions and their graphs, solution of polynomial, exponential and logarithmic functions and linear systems of equations. Prerequisite(s): Placement by department.

MT 204. CONTEMPORARY MATHEMATICS (3). Presents topics in contemporary mathematics that are relevant to the Liberal Arts student. Develops the skills required to understand and interpret quantitative information that students encounter in the Liberal Arts curriculum. Prerequisite(s): Placement by department.

MT 231. PLANE TRIGONOMETRY (3). Presents trigonometric functions, relation and graphs, solution of triangles, solution of trigonometric equations and identities, applications, other topics as time permits. Prerequisite(s): MT 201 or placement by department.

MT 260. PRE-CALCULUS (3). Reviews the fundamental topics from Algebra and Trigonometry that are necessary for success in calculus. Topics include graphs, polynominals, rational functions, trigonometric functions, exponentials, logs, and vectors. Prerequisite(s): Placement by Department required. Does not fulfill Core Math requirement.

MT 270/MT 270C. INTRODUCTION TO STATISTICS (3). Presents standard topics in introductory statistics for students whose major is not mathematics. Topics include descriptive statistic, probability distributions, estimations, hypothesis testing, linear regression and correlation, and other topics. Prerequisite(s): Two (2) years of High School Algebra required. NOTE: MT 270C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

MT 272/MT 272C. STATISTICS FOR THE LIFE SCIENCES (3). Presents introductory statistics emphasizing application in biology, psychology, neuroscience, and kinesiology. Includes descriptive statistics, hypothesis testing, regression, t-tests, Chi-square, and ANOVA with particular emphasis to analysis using p-scores. Prerequisite(s): Two (2) years of High School Algebra required. NOTE: MT 272C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

MT 274. INTRODUCTION TO STATISTICS FOR HEALTH PROFESSIONS (3). Provides basic understanding of statistical analysis in the health sciences. Focuses on the interpretation and analysis of health care data as it applies to organizational and clinical decision-making. Uses case studies to demonstrate measures of central tendency, position, and variation. Explores quantitative epidemiology concepts as applied to analysis of the health needs of a population, skills needed to evaluate inference in hypothesis testing including the t-test, F-test, and chi-square test.

MT 340. QUANTITATIVE METHODS (3). Introduces operations research. Emphasizes decision making under conditions of uncertainty, linear programming, regression models, PERT and CPM, and other quantitative techniques used in a typical business setting. Prerequisite(s): MT 270 and BA 282 or CS 282 or permission of instructor.

MT 360A. CALCULUS I (4). Treats standard topics of single variable calculus including limits, continuity, derivatives, applications of derivatives, and elements of integration. Prerequisite(s): MT 231 or placement by department.

MT 360B. CALCULUS II (4). Continues treatment of single variable calculus including definite and indefinite integrals, applications of integrals, transcendental functions, techniques of integration and infinite series. Prerequisite(s): MT 360A or placement by department.

MT 360C. CALCULUS III (4). Presents topics of multivariable calculus including calculus of vector functions, multivariable functions, partial derivatives, multiple integrals, applications and other topics as time permits. Prerequisite(s): MT 360B or placement by department.

MT 370. INTERMEDIATE STATISTICS (3). Introduces stratified sampling and experimental design; one factor ANOVA, two factor ANOVA, -factor ANOVA; selected multiple comparison tests; multiple correlation and regression; the sign test; the Mann-Whitney U-test; the runs test; and the Spearman correlation. Prerequisite(s): MT 270 or MT 272 or permission of instructor.

MT 401. LOGIC AND PROOFS (3). Provides an introduction to mathematical reasoning and proof writing. Topics include set theory, logic and methods of proof. Prerequisite(s): MT 360B or permission of instructor.

MT 405. NUMERICAL AND COMPUTATIONAL METHODS (3). Uses computers in solving linear and nonlinear equations, approximation theory, numerical integration and differentiation, numerical solution of differential equations, and linear programming. Prerequisite(s): MT 360B.

MT 415. LINEAR ALGEBRA (3). Studies vector spaces, linear transformations, matrices, determinants, systems of equations, eigenvalues, and characteristic matrices. Prerequisite(s): MT 360A. NOTE: Required for students preparing to teach secondary mathematics.

MT 420A. INTRODUCTION TO OPERATIONS RESEARCH I (3). Summarizes matrix and vector algebra. Introduces hyperplanes and convex geometry in n-dimensions, scanning extreme points and tableau pivots, the simplex algorithm and slack variables, degeneracy and classification of linear programming problems, duality theory and shadow variables, imputed values and sensitivity analysis. Prerequisite(s): MT 360B or permission of instructor.

MT 420B. INTRODUCTION TO OPERATIONS RESEARCH II (3). Introduces sequential search techniques, Fibonnacci search, three point interval search, convex functions, gradient techniques, exploratory sequences and accelerated pattern moves for an n-dimensional setting; the feasible direction algorithm; dynamic programming; active versus inactive constraints and penalty functions. Prerequisite(s): MT 360B.

MT 423A. ABSTRACT ALGEBRA I (3). Provides an axiomatic treatment of basic concepts of groups, rings, and fields. Prerequisite(s): MT 401 or permission of instructor. NOTE: At least one upper division mathematics course required.

MT 423B. ABSTRACT ALGEBRA II (3). A continuation of MT 423A. Prerequisite(s): MT 423A.

MT 426. HISTORY AND FOUNDATIONS OF MATHEMATICS (3). Discusses topics in ancient methods of numeration and calculation, the history and solution of classical problems, including topics from number theory, algebra, geometry, and calculus. Includes contributions of the great mathematicians, under-represented groups (including minorities and women), and diverse cultures. Investigates the role of mathematics in civilization. Prerequisite(s): MT 360B. NOTE: Required for students preparing to teach secondary mathematics.

MT 430. INTRODUCTION TO MATHEMATICAL MODELING (3). Studies principles of constructing mathematical models using techniques such as: difference equations, proportionality, geometric similarity, graphical analysis and dimensional analysis, simulation with random numbers, and systems of differential equations. Prerequisite(s): MT 360B. NOTE: Required for students preparing to teach secondary mathematics.

MT 435. APPLIED COMBINATORICS (3). Studies methods for counting arrangements and selections, generating functions, recurrence relations, the inclusion-exclusion principle, elements of graph theory, covering circuits, trees and searching and network algorithms. Prerequisite(s): MT 360B. NOTE: Required for students preparing to teach secondary mathematics.

MT 437. CRYPTOGRAPHY (3). Includes a brief history of code making and code breaking, modern private key systems (AES), and public key cryptosystems. Prerequisite(s): MT 415.

MT 441. MODERN GEOMETRY (3). Studies Euclidean and non-Euclidean geometries such as: Mobius, hyperbolic, elliptic, absolute, and projective geometries. Geometries are studied using analytic methods and the relation to real-world situations. Prerequisite(s): MT 360B. NOTE: Required for students preparing to teach secondary mathematics.

MT 454. REAL ANALYSIS (3). Provides rigorous treatment of real numbers, functions, sets, and limits-the foundations underlying Calculus. Studies sequences and series of numbers and functions, basis topology, continuity and differentiability of functions, and integration. Prerequisite(s): MT 401.

MT 463. DIFFERENTIAL EQUATIONS (3). Studies solutions first and second order differential equations, applications, linear differential equations, series solutions, laplace transforms, numerical solutions, and systems of linear differential equations with constant coefficients. Prerequisite(s): MT 360B.

MT 470A. MATHEMATICAL STATISTICS I (3). Introduces probability; distribution functions and moment generating functions, correlation and regression; development and applications of binomial, normal, student's T, chi square, and F distributions. Prerequisite(s): MT 360B. NOTE: Required for students preparing to teach secondary mathematics.

MT 470B. MATHEMATICAL STATISTICS II (3). A continuation of MT 470A. Prerequisite(s): MT 360B.

MT 472. PROBABILITY AND STATISTICS (3). Introduces probability and statistics and the underlying mathematical theory, discrete and continuous distributions, sampling distributions, estimation, hypothesis testing and regression. Prerequisite(s): MT 360B.

MT 480. COMPLEX ANALYSIS (3). Studies calculus of complex variables including algebra of complex numbers, analytic functions, complex integration, series for complex functions and residue theory. Focuses on applications in mathematics and science. Examines the difference between real and complex variables. Prerequisite(s): MT 360B.

MT 490E-W. INDEPENDENT STUDY IN MATHEMATICS (1-3). Provides an opportunity for independent exploration of areas of interest. Prerequisite(s): Approval of department chair.

MT 498E-W. INTERNSHIP IN MATHEMATICS (3). Gain experience working with professional mathematicians and scientists in a techni-cal field. Students will be able to relate the mathematics, which they are learning in the classroom to the work they expect to be doing after graduation.

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MODERN AND CLASSICAL LANGUAGES AND LITERATURE

Dr. Obdulia Castro, Associate Professor, Chairperson

Dr. Deborah Gaensbauer, Professor

Dr. Elizabeth Medina, Professor

Dr. Kimberly Habegger, Associate Professor

Dr. Gabriela Carrión, Assistant Professor

Dr. Leonardo Palacios, Assistant Professor

FRENCH

French Major 31 SH

Lower Division Requirement

The equivalent of second-year written and oral proficiency in another foreign language or the equivalent of first-year proficiency in another foreign language plus a six semester hour combination selected from the following options:

- Phonetics (if not already counted toward major) 3-6 SH
- Coursework towards certification in English as a second language 3-6 SH
- Coursework in bilingual education 3-6 SH
- Spanish for health care practitioners (if not already counted toward major) 3 SH
- Related coursework in other academic fields subject to departmental approval 3 SH
- Full-time enrollment for a minimum of one semester in a non-English-based study abroad program 6 SH

Upper Division Requirements *25 SH*

Twenty-two upper division semester hours of French courses, which must include:

FR 409--Advanced French I	3 SH
FR 410--Advanced French II	3 SH
FR 411--Advanced French III	3 SH
FR 415--French Politics and Culture	3 SH
FR 460--Romance Linguistics	3 SH
FR 499--Senior Seminar	1 SH
Upper Division French Electives	6 SH
Upper division semester hours in a related field selected in consultation with the French advisor.	3 SH

French Minor 12 SH

Twelve upper division semester hours of French courses selected with the approval of the French advisor.

SPANISH

Spanish Major **31 SH**

Lower Division Requirement

The equivalent of second-year written and oral proficiency in another foreign language or the equivalent of first-year proficiency in another foreign language plus a six semester hour combination selected from the following options:

- Phonetics (if not already counted toward major) 3-6 SH
- Coursework towards certification in English as a second language 3-6 SH
- Coursework in bilingual education 3-6 SH
- Spanish for health care practitioners (if not already counted toward major) 3 SH
- Related coursework in other academic fields subject to departmental approval 3 SH
- Full-time enrollment for a minimum of one semester in a non-English-based study abroad program 6 SH

Upper Division Requirements *25 SH*

Twenty-five upper division semester hours of Spanish courses, which must include:

SP 409--Advanced Spanish I	3 SH
SP 410--Advanced Spanish II	3 SH
SP 411--Advanced Spanish III	3 SH
SP 430A--Survey of Spanish Literature	3 SH
SP 430B--Survey of Latin American Literature	3 SH
SP 460--Romance Linguistics	3 SH
Upper Division Spanish Elective	6 SH
SP 496--Senior Project	1 SH

NOTE: The Modern Language Department highly recommends study abroad as an integral part of the Spanish major.

Spanish Minor **12 SH**

Twelve upper division semester hours of Spanish courses selected with the approval of the major advisor.

GERMAN

A major in German is available only through the Thematic Major Program.

GREEK

A major in Greek is not available.

LATIN

A major in Latin is not available.

MODERN AND CLASSICAL LANGUAGES AND LITERATURE COURSE DESCRIPTIONS

FRENCH (FR)

FR 209A. ELEMENTARY FRENCH I (4). Studies the essentials of grammar and oral drill, dictation, reading of elementary and intermediate texts, conversation, and written exercises and introduces some of the most important cultural traits of the French speaking world.

FR 209B ELEMENTARY FRENCH II (4). A continuation of FR 209A. Prerequisite(s): FR 209A or equivalent.

FR 309A. INTERMEDIATE FRENCH I (3). Provides intensive study in current idiomatic French. Develops accuracy and proficiency in the use of the language by means of a thorough grammar review, oral exercises, and written work. Includes reading of intermediate and semi-advanced texts. Emphasizes the use of French linguistic skills to gain a more in-depth understanding of the cultural practices, products, and perspectives of the French speaking world. Prerequisite(s): FR 209B or equivalent.

FR 309B. INTERMEDIATE FRENCH II (3). A continuation of FR 309A. Prerequisite(s): FR 309A or equivalent.

NOTE: ALL 400-LEVEL FRENCH COURSES ARE TAUGHT IN FRENCH.

FR 409. ADVANCED FRENCH I (3). Provides an intensive review of French grammar focused primarily on development of oral competency and composition skills to promote in-depth understanding of the histories and the diverse socio-cultural and linguistic practices of the French speaking world. Prerequisite(s): FR 309B or equivalent.

FR 410. ADVANCED FRENCH II (3). Provides an intensive review of French grammar focused primarily on French cultural history and politics. Prerequisite(s): FR 309B or equivalent.

FR 411. ADVANCED FRENCH III (3). Provides an intensive review of French grammar focused primarily on literary criticism and an introduction to formal research methods through the introduction of major literary periods, genres, and themes. Prerequisite(s): FR 309B or equivalent.

FR 415. FRENCH POLITICS AND CULTURE (3). Analyzes the political and cultural evolution of France and francophone countries and the European Union. Prerequisite(s): FR 309B.

FR 423. TRANSLATION/INTERPRETATION/COMPOSITION (3). Offers practice in advanced composition, translation, and stylistic analysis in French to develop grammar, vocabulary and analytic skills in a contemporary and realistic context. Prerequisite(s): FR 309B or equivalent.

FR 426. ADVANCED FRENCH CONVERSATION I (1). Involves conversation based on readings and current events, film and cultural excursions as well as other topics selected by the instructor and students. Provides an informal format for development of communication skills and understanding of contemporary Francophone issues. Prerequisite(s): FR 309B or permission of instructor

FR 427. ADVANCED FRENCH CONVERSATION II (3). Phonetics-based, advanced-level discussion of contemporary French and francophone, social, political and cultural issues. Emphasizes development of oral proficiency. Prerequisite(s): FR 309B or permission of instructor.

FR 429. SURVEY OF FRENCH LITERATURE FROM THE MEDIEVAL PERIOD THROUGH THE 17TH CENTURY (3). Examines major French writers and literary movements from the medieval through the classical periods. Prerequisite(s): FR 309B or equivalent.

FR 435. Survey of French Theater (3). A critical study of representative French plays from the Middle Ages to the 21st Century through reading, viewing, discussion and in-class performance. Taught in French. Prerequisite(s): FR 309B or equivalent.

FR 437. 20TH AND 21ST CENTURY FRENCH LITERATURE (3). Examines major developments in the 20th and 21st century French literature and critical theory. Prerequisite(s): FR 409 or FR 410 or FR 411 or equivalent or permission of instructor.

FR 439. DIVERSITY IN THE FRENCH-SPEAKING WORLD (3). Multi-disciplinary study of representative works from the Francophone world including Canada, France, North and sub-Saharan Africa, Haiti, Martinique and Guadeloupe. Prerequisite(s): FR 309B. Sophomore standing and permission of instructor required.

FR 460. ROMANCE LINGUISTICS (3). Studies the fundamental structures of the romance languages: phonology, morphology, syntax, and semantics. Explores evolution of the romance languages from Latin and studies relationships among language, thought and culture. Prerequisite(s): FR 309B. Cross listing: SP 460.

FR 490E-W. INDEPENDENT STUDY IN FRENCH (3). Offers an opportunity for independent exploration of topics of interest in French or Francophone literature and art. Prerequisite(s): FR 409, or FR 410, or FR 411 or equivalent and approval of department chair and director of Academic Internship Program required.

FR 495E-W. SEMINAR IN FRENCH AND FRANCOPHONE STUDIES (3). Provides an intensive study of French and francophone authors, genres or literary movements. Prerequisite(s): FR 409, or FR 410 or FR 411 or equivalent or permission of instructor.

FR 498E-W. INTERNSHIP IN FRENCH (3). Provides practical on-site experience in the use of French and an opportunity to enhance reading, writing, speaking, and listening skills. Prerequisite(s): Junior standing and approval of department chair and director of Academic Internship Program.

FR 499. SENIOR SEMINAR (1). Individualized reading and writing assignments based on courses previously taken. Prerequisite(s): Permission of instructor. NOTE: Future departmental recommendations based on successful completion of the course.

SPANISH (SP)

SP 200. SPANISH LANGUAGE AND CULTURE (3). Explores different aspects of Hispanic culture. Prerequisite(s): Approval of Office of Disability Services and Department Chair.

SP 209A. ELEMENTARY SPANISH I (4). Provides a thorough grounding in essentials of grammar, oral drill, dictation, elementary and intermediate texts, conversation, and written exercises and introduces some of the most important cultural traits of the Spanish speaking world.

SP 209B. ELEMENTARY SPANISH II (4). A continuation of SP 209A. Prerequisite(s): SP 209A or equivalent.

SP 299E-W. MAINTAINING SPANISH (1). Keeps the Spanish language updated by using practical skills in oral and written language. Prerequisite(s): SP 209B or equivalent. NOTE: Does not meet Regis College Core Studies requirement in Foreign Language. Pass/No Pass grading only.

SP 309A. INTERMEDIATE SPANISH I (3). Provides an intensive grammar review to develop accuracy and proficiency in the use of the language. Emphasizes the use of Spanish linguistic skills to gain a more in-depth understanding of the cultural practices, products, and perspectives of the Spanish speaking world. Prerequisite(s): SP 209B or equivalent.

SP 309B. INTERMEDIATE SPANISH II (3). A continuation of SP 309A. Prerequisite(s): SP 309A or equivalent.

SP 320. SPANISH FOR MEDICAL AND HEALTH CARE WORKERS (4). Provides Spanish students and medical and health care workers the opportunity to better communicate with the growing Spanish community in the United States. Explores how to progressively merge grammar, content, and health care vocabulary in various medical contexts. Provides flexibility and will be tailored to students with different proficiency levels in Spanish.

NOTE: ALL 400-LEVEL SPANISH COURSES ARE TAUGHT EXCLUSIVELY IN SPANISH UNLESS OTHERWISE INDICATED.

SP 409. ADVANCED SPANISH I (3). Provides an intensive review of Spanish grammar focusing on development of oral competency and reading and writing skills to promote in-depth understanding of the histories and the diverse socio-cultural and linguistic practices of the Spanish speaking world. Prerequisite(s): SP 309B or equivalent.

SP 410. ADVANCED SPANISH II (3). Continues intensive review of Spanish grammar focusing on development of oral competency and reading and writing skills to promote in-depth understanding of the histories and the diverse socio-cultural and linguistic practices in the Spanish speaking world. Prerequisite(s): SP 309B or equivalent.

SP 411. ADVANCED SPANISH III (3). Continues development of oral competency and reading and writing skills by focusing primarily on literary criticism and introduction to formal research methods through the introduction of major literary periods, genres, and themes. Prerequisite(s): SP 309B or equivalent.

SP 415. SPANISH CIVILIZATION (3). Studies the development of Spain from prehistoric times to the present. Includes the art, literature, and music of the Spanish culture. Prerequisite(s): SP 409, or SP 410, or SP 411.

SP 423. TRANSLATION/INTERPRETATION/ COMPOSITION (3). Offers practice in advanced composition, translation, and stylistic analysis in Spanish to develop grammar, vocabulary, and analytic skills in a contemporary and realistic context. Prerequisite(s): SP 309B or equivalent.

SP 424. SPANISH FOR THE MEDICAL AND HEALTH CARE WORKER (3). Provides Spanish students, medical, and health care workers the opportunity to enhance communication skills with the vast number of Spanish speaking patients. Examines direct and Indirect commands; formal and informal speech; and the nuance of language paired with cultural aspects of communication. Prerequisite(s): Two or more semesters of Spanish or permission of instructor. Majors and minors only.

SP 430A. SURVEY OF SPANISH LITERATURE (3). Studies advanced composition centered on a survey of Spanish literature. Prerequisite(s): SP 409, or SP 410, or SP 411.

SP 430B. SURVEY OF LATIN AMERICAN LITERATURE (3). Studies advanced composition centered on a survey of Latin American literature. Prerequisite(s): SP 409, or SP 410, or SP 411.

SP 432. 18TH AND 19TH CENTURY SPANISH LITERATURE (3). A survey of the most important literary movements in 18th and 19th century Spain. Emphasizes the works of Jovellanos, El Duque de Rivas, Espronceda, Zorrilla, Becquer, Galdós, and Pardo Bazán. Prerequisite(s): SP 409, SP 410, and SP 411.

SP 433. CONTEMPORARY HISPANIC WOMEN WRITERS (3). Surveys contemporary Hispanic women's literary achievements. May draw from the literature of Latin America, the United States, and Spain. Examines literary and critical works focusing on women's viewpoints in social, cultural, economic, and aesthetic contexts. Cross listing: WGS 433.

SP 434. CONTEMPORARY SPANISH LITERATURE (3). Studies representative authors of the early 20th century, beginning with the generation of 1898 and ending with 1945, emphasizing the works of Unamuno and Garcia Lorca. Prerequisite(s): SP 409, or SP 410, or SP 411.

SP 435. LATIN AMERICAN AND LATINO LITERATURE, CULTURE, AND SOCIETY (3). Provides a multi-disciplinary study of contemporary Latin American society represented in literature from the United States and Latin America emphasizing social, economic and political issues. NOTE: Course does not count towards the Core language requirement.

SP 436. NATIVE LATIN AMERICAN LITERATURE (3). Introduction to Indigenous literature and cultural production within the Spanish colonies in the Americas. Includes texts from the colonial period to the present. This class is taught in Spanish. Prerequisite(s): SP 409, SP 410, or SP 411.

SP 437. WRITING BY AND ABOUT HISPANIC WOMEN (3). Analyzes the creation and re-creation of the female persona in selected texts by and about Hispanic women writers from the middle ages to the present. Emphasizes critical analysis and the continued development of speaking, reading, writing, listening, and cultural proficiency. Prerequisite(s): SP 309B or equivalent or permission of instructor required. Cross listing: WGS 437.

SP 441. 20TH AND 21ST CENTURY LATIN AMERICAN LITERATURE (3). Studies representative selections from the main currents of 20th and 21st century Latin American writing. Prerequisite(s): SP 410 or permission of instructor.

SP 445. SPANISH PHONETICS AND PHONOLOGY (3). Introduction to practical and theoretical aspects of phonetics and phonology. Analyzes important contrasts between sounds of Spanish and English by means of phonetic transcription. Prerequisite(s): SP 409 or permission of instructor.

SP 460. ROMANCE LINGUISTICS (3). Studies the fundamental structures of the romance languages: phonology, morphology, syntax, and semantics. Explores the evolution of the romance languages from Latin and studies the relationships among language, thought and culture. Prerequisite(s): SP 309B. Cross listing: FR 460.

SP 461. LATIN AMERICAN CIVILIZATION (3). Studies the development of Latin American cultures from pre-Columbian times to the present. Traces the general history of these countries as well as art, literature, and music. Prerequisite(s): SP 409 or SP 410 or SP 411 or equivalent.

SP 490E-W. INDEPENDENT STUDY IN SPANISH (1-3). Offers an opportunity for independent exploration of topics of interest and Spanish and Latin American authors. Prerequisite(s): Approval of department chair and director of Academic Internship Program required.

SP 495E-W. HISPANIC STUDIES (3). Provides an intensive study of individual authors, works, periods, or literary movements. Prerequisite(s): Majors only.

SP 496. SENIOR PROJECT (1). Provides a capstone experience for senior Spanish majors. Requires extensive reading, writing, and research in a Spanish topic and an oral comprehensive examination. Prerequisite(s): Majors only and Senior standing.

SP 498E-W. INTERNSHIP IN SPANISH (3). Provides practical on-site experience in the use of Spanish and an opportunity to enhance reading, writing, speaking, and listening skills. Prerequisite(s): Junior standing and approval of department chair and director of Academic Internship Program.

GERMAN (GR)

GR 209A. ELEMENTARY GERMAN I (4). Provides an intensive review of basic grammatical structures and conversation. and conversation and introduces some of the most important cultural traits of the German speaking world. NOTE: Minimum of one-hour language laboratory each week in addition to four class meetings required.

GR 209B. ELEMENTARY GERMAN II (4). A continuation of GR 209A. Prerequisite(s): GR 209A or equivalent.

GR 309A. INTERMEDIATE GERMAN I (3). Provides an intensive review of current idiomatic German and grammatical structures, developing accuracy and proficiency in the use of the language. Involves readings of prepared illustrative texts. Prerequisite(s): GR 209B or equivalent. NOTE: Minimum of one-hour language laboratory each week in addition to three class meetings required.

GR 309B. INTERMEDIATE GERMAN II (3). A continuation of GR 309A. Prerequisite(s): GR 309A or equivalent.

GR 490E-W. INDEPENDENT STUDY IN GERMAN (3). Provides independent exploration of topics of interest and of German authors. Prerequisite(s): Approval of department chair and director of Academic Internship Program required.

GREEK (GK)

GK 490E-W. INDEPENDENT STUDY IN GREEK (3). Provides independent exploration of topics of interest by Greek authors. Prerequisite(s): Approval of department chair and director of Academic Internship Program required.

LATIN (LT)

LT 201A. INTRODUCTORY LATIN I (4). Studies Latin vocabulary, grammar, and syntax for students beginning in Latin.

LT 201B. INTRODUCTORY LATIN II (4). A continuation of LT 201A. Prerequisite(s): LT 201A or equivalent.

LT 301A. INTERMEDIATE LATIN I (3). Introduces classical Latin literature, prose, and poetry, with readings from Cicero, Catullus, Horace and Virgil and further study of Latin grammar. Prerequisite(s): LT 201A and LT 201B or equivalent.

LT 301B. INTERMEDIATE LATIN II (3). A continuation of LT 301A. Prerequisite(s): LT 301A or equivalent.

LT 490E-W. INDEPENDENT STUDY IN LATIN (3). Offers and independent exploration of topics of interest and of Latin authors. Prerequisite(s): Approval of department chair and director of Academic Internship Program required.

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NEUROSCIENCE

Dr. Mark Basham, Program Director

Neuroscience is an interdisciplinary field in which scientists share a common interest in studying the anatomy, physiology, and function of the nervous system and how it regulates behavior. The major is designed to provide a strong foundation in Neuroscience while giving students the flexibility to select courses that prepare them for a wide variety of career options. These include, but are not limited to, graduate study in Neuroscience, Physiological Psychology, Neuropsychology, and healthcare areas such as physical therapy, neuro-rehabilitation and medicine. Neuroscience is also a major for students who are simply interested in understanding the nature of brain-behavior relationships and want to pursue the field as part of a liberal arts education. Students will find that this major is compatible with a wide range of minors or double majors such as (but not limited to) Biology, Chemistry, Exercise Science, Philosophy, or Psychology.

The Honors-in-Neuroscience major adds an independent research component to the Neuroscience major that further helps prepare students for graduate and professional schools or for research-oriented laboratory work.

Both Neuroscience majors are administered by the Department of Psychology and Neuroscience. Sample programs of study combining the Neuroscience major with a variety of minors and double majors can be obtained from the Neuroscience Program director, the Department of Psychology and Neuroscience chairperson or online at the Regis University Neuroscience Program website. Students should work closely with their major advisor to plan a program of study commensurate with their educational and vocational goals.

DEPARTMENTAL REGULATIONS

The minimum passing grade for any course taken towards satisfying the Neuroscience major or minor is a "C-". This standard applies to all lower and upper division Neuroscience courses and all other courses required for the major or minor.

Neuroscience Major 52-54 SH

Lower Division Requirements	*28 SH*
BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic	3 SH
BL 263--Organismic Biology Laboratory	1 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230–Principles of Chemistry II and CH 231–Principles of Chemistry Laboratory II or CH 250-Organic Chemistry I	4 SH
and CH 251-Organic Chemistry Laboratory I	1 SH
MT 272/MT 272C--Statistics for the Life Sciences	3 SH
NS 260--Introduction to Brain and Behavior	3 SH
NS 261--Introduction to Brain and Behavior Laboratory	1 SH
PY 250/PY 250C--General Psychology	3 SH
Upper Division Requirements	*24-26 SH*
NS 401--Advanced Neuroscience Methods	1 SH
NS 485--Functional Neurophysiology and Neuroanatomy*	3 SH
NS 486--Neurophysiology and Neuroanatomy Laboratory*	1 SH
NS 487--Neuropsychology*	3 SH
NS 488--Neuropsychology Laboratory*	1 SH
NS 495E-W--Seminar: Current Topics in Neuroscience	3 SH

* May be taken in any sequence.

Research Component

PY 419--Research Methods	3 SH
PY 420--Research Methods Laboratory	1 SH

NOTE: PY 419/420 should be taken during the Sophomore year. These courses are helpful for understanding how to design experiments and prepare students for research-oriented classes and Independent research experiences during Sophomore, Junior, or Senior years.

Elective Component

One course with the accompanying co-requisite laboratory, if offered, in each of the following elective areas. A third course from either elective area or an additional neuroscience course (e.g., NS 410, NS 466) may be needed to complete the upper division semester hour requirements. NS 491E-W, NS 498E-W and a second NS 495E-W may also count as an upper division elective.

Cellular/Molecular Electives

BL 412--Developmental Biology	3 SH
BL 413--Developmental Biology Laboratory	2 SH
BL 414--Principles of Genetics	3 SH
BL 415--Genetics Laboratory	1 SH
BL 424--Cell Biology	3 SH
BL 427--Molecular Biology Laboratory	1 SH
BL 436--Animal Physiology	3 SH

Behavioral/Cognitive Electives

EXS 422--Concepts of Motor Behavior	3 SH
NS 482--Sensation and Perception	3 SH
PY 442--Learning and Memory	3 SH
PY 443--Learning and Memory Laboratory	1 SH
PY 454--Cognitive Psychology	3 SH

NOTE: It is recommended that students take as many of the courses listed in the Cellular/Molecular and Behavioral/Cognitive electives as can be accommodated.

Honors-in-Neuroscience Major 58-60 SH

The Honors-in-Neuroscience major is designed for students who wish to complete a major research project as part of their program of study. To complete this major, a student must complete the same lower and upper division requirements of the Neuroscience major, plus at least four semester hours of Research in Neuroscience (taken over two or more semesters) and two semester hours of Senior Thesis.

NS 491E-W--Research in Neuroscience*	4 SH
NS 499--Senior Thesis	2 SH

* Research or Independent Study in Biology, Biochemistry, Chemistry, or Psychology may be substituted for this requirement upon approval by the director of the Neuroscience Program after consulting with the instructor of the independent study.

Candidacy must be approved by the director of the Neuroscience Program. The candidate must:

1. Select a thesis advisor and submit a preliminary thesis proposal.
2. Complete a research project for Research in Neuroscience (or equivalent) credit.
3. Complete Senior Thesis requirements by:
   - Defending his/her research before a panel of faculty.
   - Presenting his/her research in a public forum such as a lecture in a class or a presentation at a professional meeting.
   - Submitting a final thesis that conforms to APA guidelines and is approved by the faculty examination committee.

Neuroscience Minor	**27 SH**
Lower Division Requirements	*15 SH*
BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic	3 SH
BL 263--Organismic Biology Laboratory	1 SH
NS 260--Introduction to Brain and Behavior	3 SH
NS 261--Introduction to Brain and Behavior Laboratory	1 SH
PY 250/PY 250C--General Psychology	3 SH
Upper Division Requirements	*12 SH*
NS 401--Advanced Neuroscience Methods	1 SH
NS 485--Functional Neurophysiology and Neuroanatomy*	3 SH
NS 486--Neurophysiology and Neuroanatomy Laboratory*	1 SH
NS 487--Neuropsychology*	3 SH
NS 488--Neuropsychology Laboratory*	1 SH
NS 495E-W--Seminar: Current Topics in Neuroscience	3 SH

* May be taken in any sequence.

NEUROSCIENCE COURSE DESCRIPTIONS (NS)

NS 260. INTRODUCTION TO BRAIN AND BEHAVIOR (3). Introduces the scientific study of how the brain relates to behavior. Explores how brain structure and function are involved in sensorimotor functions, motivation and emotion, cognition, and neurological disorders. Co-requisite: NS 261.

NS 261. INTRODUCTION TO BRAIN AND BEHAVIOR LABORATORY (1). Introduces scientific methods used to study brain- behavior relationships such as sensorimotor, emotional, and cognitive functions as well as neurological disorders and the effects of drugs on behavior. Co-requisite: NS 260.

NS 401. ADVANCED NEUROSCIENCE METHODS (1). Emphasizes current neuroscience laboratory research techniques including recording cellular activity of nervous tissue, drug effects, brain lesions, histology, microscopy, and behavioral tests for assessing brain-behavior functions in non-human nervous systems. Prerequisite(s): NS 260. Cross listing: PY 401.

NS 410. NEUROLOGICAL DISORDERS (3). Applies a biopsychosocial approach to understanding brain-behavior relationships through the study of diseases of the nervous system. Prerequisite(s): NS 260 or BL 260 and BL 262. Cross listing: PY 410. NOTE: A background in neuroscience or psychology, while helpful, is not essential for this course.

NS 466. PSYCHOPHARMACOLOGY (3). Examines relationships between brain functions and major psychoactive drugs, including drugs used to treat psychological and neurological disorders. Includes an analysis of the cellular and physiological effects of each drug on neuronal functioning as well as psychological functioning. Prerequisite(s): NS 260 or BL 260 and BL 262 or permission of instructor required. Cross listing: PY 466.

NS 482. SENSATION AND PERCEPTION (3). Introduces the physiological and psychological processes underlying basic sensory and perceptual experience. Emphasizes psychophysical relationships established for the different sense modalities and theoretical interpretations of the sensory data. Prerequisite(s): PY 250. Cross listing: PY 482.

NS 485. FUNCTIONAL NEUROPHYSIOLOGY AND NEUROANATOMY (3). Explores the functional significance of neural physiology and connectivity, including effects related to neural development, how nerve cells communicate with one another, how patterns of neural interconnections give rise to different perceptual, cognitive, and motor responses, and how neural communication is modified by experience. Co-requisite: NS 486. Prerequisite(s): NS 260 and BL 260 and BL 262 or permission of instructor. Cross listing: BL 485 and PY 485.

NS 486. NEUROPHYSIOLOGY AND NEUROANATOMY LABORATORY (1). Involves laboratory experiments and computer simulations of neural functions as well as gross dissection, and historical study of Neuroanatomy. Co-requisite: NS 485. Cross listing: BL 486 and PY 486. NOTE: One three-hour laboratory per week.

NS 487. NEUROPSYCHOLOGY (3). Studies the physiological and neuropsychological correlates of behavior. These include but are not limited to neural systems regulating motivation, emotion, learning, and the neuropsychological bases of cognitive processes. Physiological and psychological responses to brain injury are also examined. Co-requisite: NS 488. Prerequisite(s): NS 260. Cross listing: PY 487.

NS 488. NEUROPSYCHOLOGY LABORATORY (1). Emphasizes current research techniques and neuropsychological methods for assessing cognitive functions in humans, with an emphasis on assessment of the neurobehavioral impact of cerebral lesions. Co-requisite: NS 487. Cross listing: PY 488.

NS 490E-W. INDEPENDENT STUDY IN NEUROSCIENCE (3). Offers an opportunity for advanced study in independent research in neuroscience. Prerequisite(s): Approval of program director required.

NS 491E-W. RESEARCH IN NEUROSCIENCE (1-3). Offers an opportunity for collaborative research in neuroscience under faculty direction. Requires oral or poster presentation. Prerequisite(s): NS 260 and permission of instructor.

NS 495E-W. SEMINAR: CURRENT TOPICS IN NEUROSCIENCE (3). Focuses on a broadly defined topical area or theme in neuroscience. Neuroscience researchers with expertise in the topic present lectures on their area of research specialty. Students develop skills needed to examine background research for each lecture and explore the potential impact of the research on understanding brain function. Topics are announced prior to registration. Prerequisite(s): NS 260 and NS 485 or NS 487 and PY 419.

NS 498E-W. INTERNSHIP IN NEUROSCIENCE (3). Involves placement in a clinical or research agency for advanced neuroscience students. Prerequisite(s): Approval of director of Academic Internship Program and program director required.

NS 499. SENIOR THESIS (2). Students meet regularly with the thesis advisor to prepare for the defense of the research before a panel of faculty, to present the research in a public forum, and to submit a final thesis that conforms to APA guidelines and is approved by the faculty examination committee. Prerequisite(s): NS 490E-W and approval of program director required.

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PARACURRICULAR PROGRAM

Paracurricular courses are available to Regis College students as electives in their program of study. Courses are designed to complement a student's leadership, service, or work experiences by providing the accompanying theory and critical analysis.

Paracurricular courses include:

- Leadership seminars from the Regis College Leadership Development Program.
- Peer Assistance Program for students chosen to administer the residence hall.
- Teaching Assistant Seminar for students serving as "TA's" for the Freshman Seminars.
- Service Learning Seminars to accompany service field activities.

PARACURRICULAR COURSE DESCRIPTIONS (PC)

PC 200A. LEADERSHIP SEMINAR: MAGIS PROGRAM (1). Surveys basic leadership skills and issues for students entering the Regis College Leadership Program. Prerequisite(s): Permission of instructor.

PC 200B. LEADERSHIP SEMINAR: MAGIS PROGRAM (1). Surveys basic leadership skills and issues for students entering the Regis College Leadership Program. Prerequisite(s): PC 200A or permission of instructor.

PC 204E-W. LEADERSHIP DEVELOPMENT PROGRAM (1). Discover leadership by exploring different leadership theories and concepts. The Leadership Development Program offers three courses that are focused on Social Change, Heroic Leadership, and Organizational Leadership. Receive credit for the Leadership Certificate Program, the Leadership Minor, or enroll in a course solely to learn leadership skills that you can utilize both in your current leadership roles and in future roles. Completion of one of the three courses is required before enrollment into the Leadership Certificate Program.

PC 210A. WRITING CENTER THEORY AND PRACTICE (1). Provides an introduction to writing theory and reviews practical issues such as grammar and usage. Prepares students to work with other writers by examining peer tutoring techniques. Prerequisite(s): Permission of instructor.

PC 220. COLLEGE, CAREERS & YOUR FUTURE (2). Designed for students who have not yet declared a major, are considering a major change, or want to confirm their career decisions. Participants will self-assess interests, values, skills, and personality within a theoretical context while exploring options about a major and a career.

PC 240. FR. WOODY SERVICE LEARNING SEMINAR I (1). Provides opportunities to experience, analyze, and reflect upon the intellectual and spiritual benefits of direct community service. In keeping with the Jesuit Mission of "…educating men and women in the service of others," students will study the life and work of Msgr. C.B. Woodrich, read and discuss books devoted to the human search for meaning, and participate in weekly projects established in the name, and modeled on the unique style, of Father Woody. Transportation to these projects will be provided by "Father Woody's Wheels," vehicles dedicated to furthering the legacy of Father Woody. Prerequisite(s): Permission of instructor required. NOTE: Service learning component required. Section RU01 is for Daniels Scholars only. RU02 is for Arrupe Students only. RU03 is not restricted. RU04 is for Denver Scholarship Fund Scholars only.

PC 241. FR. WOODY SERVICE LEARNING SEMINAR II (1). Provides academic service context for exploring the life and work of Fr. Woody in the Jesuit tradition of educating men and women in the service of others. Prerequisite(s): Permission of instructor.

PC 242. FR. WOODY SERVICE LEARNING SEMINAR III (1). Provides continued opportunities to participate in the Regis University Mission of 'leadership in the service of others.' Service projects involve direct service to the poor, primarily Denver's homeless population. Course requires weekly participation in a Father Woody Project, weekly meetings with instructor, and reflective writing about the service work. Prerequisite(s): PC 240 or permission of instructor. Note: Service learning component required.

PC 260E-W. PEER ASSISTANT TRAINING (2). Includes an examination of psychological, educational and health concerns of college students. Emphasizes techniques and strategies for coping with life demands. Prerequisite(s): Permission of instructor.

PC 390E-W. FIELD EXPERIENCE (3). Students broaden perspective regarding a specific career area, while developing competencies on the job. Students combine academic coursework with real life experiences in their work. Prerequisite(s): Approval of department chair and faculty sponsor. NOTE: Same as Internship 498 except that Field Experience can be taken by sophomores or second semester freshmen for elective credit only. A minimum of 120 hour of on-the-job experience required.

PC 490E-W. INDEPENDENT STUDY IN LEADERSHIP STUDIES (3). Upper division course in Leadership Studies developed conjointly with the advanced leadership studies student. Prerequisite(s): RCC 200, CCS 300, or CCS 400. Majors or minors only. Fee required.

PC 498E-W. LEADERSHIP INTERNSHIP (1-3). Through the Academic Internship Program and small group discussion, the Leadership Internship helps students apply the theories and models of leadership through a cycle of knowing, being, and doing through volunteer work at an off-campus organization. Prerequisite(s): RCC 200 or CCS 300 or CCS 400. Majors or minors only. Approval of Program Director and Director of the Academic Internship Program required.

PC 499. CAPSTONE: PUBLIC SCHORLARSHIP (3). Public scholarship integrates many educational practices including volunteerism, experiential learning, civic engagement, and reflection through the application of scholarship. Steps include preparation (identifying a community partner), participation (field observation), executing research, and disseminating findings. Prerequisite(s): Leadership minor students only.

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PEACE AND JUSTICE STUDIES

Dr. Byron Plumley, Program Director

Dr. Geoffrey Bateman, Assistant Professor

Dr. Eric Fretz, Assistant Professor

Peace and Justice Studies is an interdisciplinary program that provides the opportunity to explore complex social justice and peace issues in the 21st century from the perspective of multiple disciplines. Eleven departments contribute courses. The major introduces students to issues of injustice and violence, conflict resolution and the practice of nonviolence, social change theory and community organizing, case studies of social movements as well as historical, philosophical, economic, and religious understanding of peace and justice. Service learning and community internships are integrated into the academic program.

Peace and Justice Major	**28 SH**
Lower Division Requirement	*3 SH*
PJ 200--Peace and Justice in Theory and Practice	3 SH
Upper Division Requirements	*25 SH*
PJ 400--Foundations of Peace and Justice	3 SH

PJ 408--Methods of Social Research	3 SH
PJ 496--Peace and Justice Studies Project	4 SH
Upper Division Peace and Justice Electives (selected with the approval of the major advisor)	15 SH

Peace and Justice Minor	**16 SH**
PJ 200—Peace and Justice in Theory and Practice	3 SH
PJ 400--Foundations of Peace and Justice	3 SH
PJ 496--Peace and Justice Studies Project	4 SH
Upper Division Peace and Justice Electives (selected with the approval of the major advisor)	6 SH

PEACE AND JUSTICE STUDIES COURSE DESCRIPTIONS (PJ)

PJ 200/PJ 200C. PEACE AND JUSTICE IN THEORY AND PRACTICE (3). Introduce students to themes within the academic discipline of peace and justice studies. Discussion is focused on nonviolence in theory and practice, and includes interdisciplinary threads from history, philosophy, literature, religion, economics, and social analysis.

PJ 400. FOUNDATIONS OF PEACE AND JUSTICE (3). Provides an overview of conceptual approaches to the study of peace and justice. Examines the theory and practice of nonviolence, explores domestic and international social issues and uses case studies to discuss social change strategies. Prerequisite(s): PJ 200.

PJ 401. CURRENT ISSUES IN EDUCATION (2). Studies issues in education and offers critique of the school system including social justice analysis. Increases awareness of justice and peace concepts related to classroom management, dropout and retention, student conflict, effects of various cultures on teaching, child abuse, and single parents. Cross listing: ED 400.

PJ 403. INTERNATIONAL LAW AND HUMAN RIGHTS (3). Examines how International Law has become a process of normative regime-building that secures the inherent Human Rights of all people with the help of global monitoring, domestic education and law enforcement and international discourse through the UN system. Prerequisite(s): POL 215, PLO 241, or POL 281. Cross listing: POL 404.

PJ 404. CHRIST IN A CULTURE OF VIOLENCE (3). Explores contemporary issues and values in U.S. society. Analyzes the culture of consumerism and violence in contrast to the gospel message. Focuses on nonviolent alternatives consistent with the life and teachings of Jesus. Prerequisite(s): RT 201.

PJ 405. INTERPERSONAL CONFLICT STUDIES (3). Examines conflict in a variety of human relationships. Explores conceptual and practical skills to analyze and mange conflicts including face-to-face and third-party negotiations. Prerequisite(s): COM 380. Cross listing: COM 405.

PJ 406. INTERCULTURAL COMMUNICATION (3). Using readings, film, field experience and/or dialogue, the course investigates cultural identity, meaning, patterns, relationships and conflicts that arise as contact increases between people of different cultures in our global society. Prerequisite(s): Com 380 or permission of instructor. Cross listing: COM 400.

PJ 408. METHODS OF SOCIAL RESEARCH (3). Practical introduction to social science research methods including survey research, content analysis, participant observation, and field research. Builds critical thinking skills for comparing and evaluating popular and academic reports/claims, focusing on social problems and social justice. Research design, data analysis of both qualitative and quantitative data, library research, and writing skills are taught through hands-on experiences. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: AN 404 and SO 404. NOTE: This is a writing intensive course.

PJ 409. LETRAS Y ARTE: LITERACY AND ART (3). Explores multiple literacies used to develop thinking and communication, with particular focus on elements of writing and the visual arts used in historical and contemporary contexts by artists and writers who convey positions on social justice issues. Visits to artists or authors are integral. Participants will instruct children from the local Latino community in visual art and writing.

PJ 410. MONEY, POWER, AND JUSTICE: A BIBLICAL PERSPECTIVE (3). Examination of money, power, labor, authority, and violence in the Bible and Christian tradition. Explores issues related to justice and social concerns as they apply to contemporary life and situations.

PJ 411. BIBLICAL PERSPECTIVES ON PEACE AND JUSTICE (3). Focuses on the call for faith, justice, and peace in New Testament documents. Studies Jesus' option for the poor and for faith, justice, and peace in the face of Roman domination and the interdisciplinary facets of scripture. Cross listing: CAS 460F.

PJ 412. IMMIGRATION IN AMERICAN HISTORY (3). Examines the history of immigration into the United States from the early 19th century to the present. Explores federal policies, public debates surrounding the issue of immigration, and the social, economic, political consequences of immigration and the historical experiences of immigrants. Cross listing: HS 412.

PJ 413. STRATEGIES OF DIALOGUE (3). Examines the dynamics of group communication through theoretical lenses, explores some difficulties in negotiating high-stakes or emotional terrain, and practical approaches for imagining, conducting and participating in productive dialogues. Prerequisite(s): COM 380. Cross listing: COM 413.

PJ 414. DIVERSITY IN THE WORKFORCE (3). Examines changing roles of African Americans, Latinos, Asian Americans, physically disabled, and elderly. Focuses on the internationalization of the workforce with respect to peace and justice. Provides an extended case application of theories of organizational behavior and change with an eye on globalization. Prerequisite(s): BA 461 and Junior standing. Cross listing: BA 414.

PJ 417. HINDU RELIGIOUS AND SOCIAL ISSUES (3). Provides an examination of Hindu scriptures, social and religious tradition, and the implications for social justice.

PJ 418. PEACE AND JUSTICE IN CATHOLIC SOCIAL THOUGHT (3). Studies the sources and influence of Catholic social teaching related to issues including human rights, poverty, economic justice, and war. Examines biblical and Church documents on justice and peace themes. NOTE: Service learning component required.

PJ 419E-W. THEMES IN CHRISTIANITY (3). Examines peace and justice themes in Christianity. Explores such themes historically (e.g., Biblical themes on peace and social justice) or analytically (e.g., contemporary Catholic or Christian thoughts in topics of peace and social justice). Prerequisite(s): RT 201.

PJ 420. CHRISTIANITY, POLITICS, AND PUBLIC POLICY IN THE U.S. (3). Considers "church and state," constitutional law, and "politics and salvation" with respect to Christianity in the U.S. with a primary emphasis on Catholic tradition. Explores historical, legal, political, and theological perspectives on church and state; contemporary issues with respect to the economy, healthcare, the environment, just war, the sanctity of life, and family. Prerequisite(s): RT 201. Cross listing: CAS 420I.

PJ 421. 20TH CENTURY AMERICAN LABOR HISTORY (3). Provides an overview of the development of an industrial labor force in the United States. Focuses on gender, ethnicity and class, while tracing the historical influence and contributions of the working class in American history. Major themes include the transformation of the organization of work, the everyday lives of workers, and the role of the government.

PJ 422. DIVERSITY ISSUES AND POLITICAL MOVEMENT (3). Introduces a critical analysis of diversity issues including racism, ethnic group status, and political movement for self-determination. Prerequisite(s): SO 200 or SO 203.

PJ 423. ORGANIZATIONAL COMMUNICATION (3). Surveys contemporary organizational communication theories and practices. Investigates issues such as diversity, participation, technology, corporate ethics, the environment, and globalization. Focuses on analyzing and critiquing current organizational practices and assumptions, with an aim toward increasing social justice and ethics. Prerequisite(s): COM 380 and Junior standing. Cross listing: BA 418 and COM 418.

PJ 424. EDUCATIONAL DISPARITY AND JUSTICE (3). Examines current issues in education including how disparity in school systems impacts children, teachers and communities in a democratic society. Focuses on: How do issues of inequity relate to democratic principles on which public education is founded, and does the system promote justice? Prerequisite(s): Junior Standing Required.

PJ 425. LITERATURE OF SOCIAL JUSTICE AND SOCIAL CHANGE (3). Integrates different types of disciplinary thinking across the genres of poetry, fiction, drama and film. Explicitly interdisciplinary, in the context of literary history, ethics/philosophy, justice theory, sociology, peace and justice studies, and history/history of social change. Prerequisite(s): Junior Standing Required.

PJ 426. FOOD JUSTICE (3). Explores our relationship with food through analysis of power, privilege, and culture. Learn ways to change the alienation, structural violence, and injustice experienced within dominant systems of food production and consumption. Prerequisite(s): SO 200, SO 204, or AN 204. Cross listing: AN 412 and SO 412.

PJ 427. SOCIAL INEQUALITY (3). Provides a comparative examination of theoretical and ethnographic patterns of inequality in the United States and other countries. Prerequisite(s): SO 200 or SO 203 or permission of instructor required. Cross listing: SO 470.

PJ 430. THE DISCOURSE OF NON-VIOLENCE (3). The justification of violence on the grounds of its necessity, legitimacy, usefulness, and moral character is contrasted with the alternative's discourse of non-violence and its grounds of justification. The role each form of discourse plays in a theory of justice get official attention. Prerequisite(s): One 200-level Philosophy course. Cross listing: PL 430.

PJ 431. FREEDOM MOVEMENTS AND HUMAN RIGHTS (3). Studies three social movements in America: civil rights, women's, gay/lesbian. Examines issues of human rights through historical events, political context, literary and artistic expression, philosophical perspectives, and religious beliefs.

PJ 432E-W. READING SEMINAR IN PEACE AND JUSTICE (3). Introduces scholarly reading in the field of peace and justice studies. Prerequisite(s): PJ 200 and one 300-level English course.

PJ 436. ENVIRONMENT AND ENERGY (3). Examines the relationship between the development of energy resources and environmental conditions. Emphasizes how economic and political ideology and institutions affect our relationship to the earth. Prerequisite(s): SO 200 or SO 203 or permission of instructor required. Cross listing: ENVS 436 and SO 436.

PJ 438. UNITED STATES FOREIGN POLICY SINCE WORLD WAR II (3). Reviews and evaluates the nature and conduct of U.S. foreign policy since 1945. Considers policies adopted by the U.S. to deal with the perceived international system, including intended outputs and actual outcomes of policy, and contemporary challenges. Prerequisite(s): POL 231 or POL 241. Junior or Senior standing required. Cross listing: POL 439.

PJ 439. BLACK SOCIAL THOUGHT (3). Focuses on African-American social thought and the West African influence from historical, political, sociological and cultural perspectives from pre-1492 to present day. Includes intensive pre-departure seminars, a two-week Ghanaian service-oriented field experience and service in Denver communities. Prerequisite(s): SO 200 or SO 204 or AN 204 or permission of instructor. Cross listing: SO 439. NOTE: Acceptance into the Tinansa Program required.

PJ 440. GENDER, SEXUALITY, AND COMMUNICATION (3). Explores connections between communication, gender, and sexuality in close relationships, organizations and the media. Course involves readings, dialogues, films, field trips, and group projects. Prerequisite(s): COM 380 or WGS 400 or permission of instructor. Cross listing: COM 440 and WGS 440.

PJ 441. SUSTAINABLE COMMUNITIES (3). Explores social, environmental, and economic issues that prevent and encourage more sustainable communities. Topics include transportation, sprawl, poverty, urban/wildlife interface, housing, population, consumption, municipal/toxic waste, community resources and empowerment, and a variety of proposed solutions from around the world. Prerequisite(s): SO 200 or SO 203 or permission of instructor required. Cross listing: ENVS 441 and SO 441.

PJ 442. WOMEN IN CHRISTIANITY (3). Explores diverse historical and contemporary voices of women in Christianity emphasizing gender relations, theological views of feminine and masculine identity, and how the commitment to gender justice transforms structures and groups within Christianity. Prerequisite(s): RT 201 or WGS 400.

PJ 443. IMAGINING SOCIAL CAPITALISM (3). Studies the symbiotic relationship between business and the liberal arts. Focuses on how economic philosophies have shaped business, and how the evolution of industry has shaped business practices. Interprets interrelations of business and liberal arts concepts to see how both contribute to sustainable organizational environments. Prerequisite(s): Junior Standing Required.

PJ 444. ECONOMICS OF POVERTY AND INEQUALITY (3). Examines poverty, inequality, and discrimination in an economic context and explores the effectiveness of government policies designed to address associated inequalities. Consideration is given to the wealth gap, wage disparities, and capital access both within countries and between countries. Prerequisite(s): EC 320 and EC 330 or permission of instructor. Cross listing: BA 444, EC 444, and WGS 444.

PJ 445. EMPLOYMENT LAW AND POLICY (3). Surveys the impact of state and federal employment laws on the organization. Examines both the history of and resistance to focus--not legal focus per se. Provides a chronicle examination of laws that were passed, and the resistance to the legislation. Explores what was happening in the community that made the laws necessary, what values are reflected in the law, and whether the law is adequate to balance the needs of the employer and employee. Prerequisite(s): BA 250 and BA 461. Junior standing. Cross listing: BA 445 and WS 445.

PJ 446. COMPARATIVE PUBLIC POLICY (3). Provides a comparative examination of public policy in western industrialized nation-states emphasizing the interaction and interdependency of politics and economics. Evaluates basic issues of public policy including distribution, extraction and regulation focusing on identifying both the range of possible choices and the actual outcomes of adopted policies under a variety of circumstances. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 445 and ENVS 445 and POL 445.

PJ 447. GLOBAL JUSTICE (3). Explores aspects of global economic justice, and how it can be attained, through consideration of theoretical and practical issues in human rights and development. Cross listing: PL 448P. Prerequisite(s): One 200-level Philosophy course.

PJ 449. COMPARATIVE FOREIGN POLICY (3). Comparative description and evaluation of the foreign policies of a variety of contemporary nation-states, emphasizing systematic conditions, national priorities and objectives, and external outputs and outcomes. Future controversies and challenges will be identified, discussed, and evaluated. Prerequisite(s): POL 231 or POL 241 or permission of instructor. Cross listing: POL 449.

PJ 450. POLITICAL PHILOSOPHY (3). Explores basic issues in political philosophy such as the relation of individual and society, freedom and authority and justice and equality. Considers the writings of political thinkers from Plato to Rawls. Prerequisite(s): One 200-level Philosophy course or permission of instructor. Cross listing: PL 450.

PJ 451E-W. GLOBAL ISSUES IN PEACE AND JUSTICE (3). Explores global issues through the lens of justice, peace building and social change. Prerequisite(s): PJ 200.

PJ 452. PUNISHMENT AND CORRECTIONS (3). Provides an historical, political, and economic analysis of the penal system in the United States. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: CR 452 or SO 452.

PJ 454. INTERNATIONAL POLITICAL ECONOMY (3). Analyzes the interactions and interrelationships between political and economic factors at the global level. Factors include monetary management, trade, multinational corporations, foreign aid, cartels and debt. Considers Western and North-South systems. Prerequisite(s): EC 200 or EC 320. Cross listing: EC 432 or ENVS 432 or POL 432.

PJ 456. LIBERATION AND THE DYNAMICS OF TRANSFORMATION (3). Explores the concept of liberation in the context of personal and social change through text, and fieldwork with agencies working for change in the Denver area. Prerequisite(s): PL 270 and Junior Standing or permission of instructor. Cross listing: PL 492X. NOTE: Fieldwork component required.

PJ 457. TOPICS IN POLITICAL THEORY: ANCIENT THOUGHT (3). Provides an intensive examination of the nature and aims of ancient political theory, related historical developments, major political thinkers, and significant topics of ancient western and non-western civilizations. Prerequisite(s): POL 281. Cross listing: PJ 482K or POL 482K. Note: Junior standing.

PJ 460. SOCIAL MOVEMENTS (3). Examines a variety of U.S. social movements from the 1950's through the present. Explores theoretical questions of how movements emerge, who joins them, the effect of various tactics, and the factors that contribute to a movements' success or demise. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: SO 460.

PJ 461. JUSTICE: ECONOMIC SYSTEMS AND GENDER (3). Focuses on early works that explore economic systems, the ways in which these systems have raised questions about justice and how these systems have affected the lives of women and men. Covers Locke, Smith, Marx, Pateman, Lerner and Dorothy Day. Also covers contemporary authors Rawls, Nozick, Young and Cudd. Pre-requisite(s): PL 270. Cross listing: PL 492J and WGS 485M.

PJ 462. AMERICAN POLITICAL THEORY (3). Provides an intensive study of selected issues of U.S. politics, emphasizing individual research projects. Includes preparation and presentation of a major research project. Cross listing: POL 496E. Prerequisite(s): Junior standing.

PJ 463. PUNK AS SOCIAL MOVEMENT (3). Analyzes the relationship between the punk community and modes of cultural resistance. Studies the rhetorical strategies employed by the punk community and various subcultures associated with punk rock (i.e. straight edge, riot grrrl and skinheads). Theoretically driven with punk as the object of analysis.. Cross listing: COM 485K. Prerequisite(s): Sophomore standing.

PJ 464. SAUL ALINSKY AND THE COMMUNITY ORGANIZING TRADITION (3). Presents history, theory and strategies of community organizing in the United States, and experience of community organizing techniques by developing and implementing a community organizing project on the Regis campus or working with the local community organizers. Cross listing: SO 464.

PJ 466. JUSTICE AND ECONOMIC SYSTEMS IN PHILOSOPHICAL THOUGHT (3). Examines economic justice as discussed by Adam Smith, Karl Marx, John Rawls, and Robert Nozick and others. Looks at the ways in which these thinkers are in conversation with one another, as well as the ways in which they touch on topics such as property, comparable worth, hunger, social choice, and government.

PJ 469. WAR IN CINEMA (3). Examines and critiques representations of war in film from the perspectives of history, philosophy, and peace and justice studies. Emphasizes the four major war-film genres: patriotic, militaristic, realistic and anti-war. Cross listing: HS 469E and PL 492E.

PJ 470. ECONOMIC DEVELOPMENT IN THE THIRD AND FOURTH WORLDS (3). Studies various models/theories of economic development that traces a history of underdevelopment in the third and fourth worlds. Investigates the various barriers and problem areas in developing countries. Assesses possibilities, prospects, and policies of the future. Prerequisite(s): EC 320. Cross listing: BA 470, EC 470, and ENVS 470.

PJ 472. POWER, POLITICS, AND WEALTH (3). Comparative analysis of economic and political institutions and the leadership behind them, including an examination of the use of power by individuals and groups. Prerequisite(s): EC 200 or SO 200 or SO 203.

PJ 473. ENVIRONMENTAL ETHICS (3). Examines the theories of value, justice, and gender and applies them to environmental problems such as sustainability, climate change, over-population, consumption and waste, and wilderness protection, with the goal of developing ethical and political responses to these problems. Prerequisite(s): One 200 Level Philosophy Course. Cross listing: PL 448J and ENVS 415.

PJ 474. MODERN SLAVERY AND TRAFFICKING (3). Modern Slavery and human trafficking in global perspective. Covers sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. Explores the role of the state, organized crime, the media, culture, corruption, and debates about prostitution. Includes testimonies by survivors research reports, theoretical essays, policy statements, expert testimonies, and videos. Prerequisite(s): SO 200 or PJ 400 or permission of instructor. Cross listing: SO 474 and CR 474.

PJ 475. GLOBALIZATION AND REVOLUTION (3). Critical examination of economic, social and political instruments of globalization, revolution, and social change around the world. Prerequisite(s): SO 200 or permission of instructor. Cross listing: SO 475.

PJ 476. LABOR IN THE AMERICAS (3). Examines the history of labor and the working class in the United States with particular attention to the transnational nature of labor and laborers across national borders. Cross listing: HS 416.

PJ 477. THE MODERN MIDDLE EAST (3). Surveys the Ottoman Empire and Iran from the beginning of their incorporation into the world economy through the rise of rival nationalisms and imperialisms, the postwar division into nation states, the Arab-Israeli conflict, the Cold War, and international oil industry. Cross listing: HS 477.

PJ 478. ECONOMIC POLICY, JUSTICE AND THE COMMON GOOD (3). Uses readings in economics, philosophy and Catholic social teaching to evaluate economic theory and economic policies that address social ills (e.g., poverty, unequal income distribution, unequal access to health care.) Prerequisite(s): EC 200, EC 320, or EC 330. Cross listing: CAS 443 and EC 443.

PJ 482E-W. TOPICS IN POLITICAL THEORY (3). Provides an intensive examination of the nature and aims of various forms of political theory, specific periods of political thought, major political thinkers or significant topics in political theory. Cross listing: POL 482E-W.

PJ 484. VALUES-FOCUSED PUBLIC POLICY (3). Examines the policies and procedures utilized by government to improve economic performance. Explores the role that individual and community worldviews and commitments to justice have in defining appropriate state and federal regulatory action, with particular attention to the Catholic worldview and Catholic Social Thought. Areas of study include anti-trust, consumer protection, employment law, and environmental law. Prerequisite(s): EC 200 or EC 320. Cross listing: BA 484, EC 484, and CAS 460G.

PJ 485. CIVIC JOURNALISM (3). Explores theories, examples, and tools of investigative, civic journalism. Develops investigative projects that explore public policy and social justice issues, for online, broadcast/cable and video documentary media. Cross listing: COM 485W and ENVS 485.

PJ 486. NEGOTIATION AND MEDIATION (3). Explores analysis, theory, and practice of negotiation and mediation. Develops skills and improves understanding through simulations, feedback, and written analysis. Prerequisite(s): PJ 405 or COM 380 and sophomore standing. Cross listing: COM 485G.

PJ 488. OIL AND WATER IN THE MIDDLE EAST (3). From the peripheralization of the economy of the marginal climatic zone of the Middle East in the nineteenth center to the far-reaching consequences of global dependence on fossil fuel in the present. Cross listing: ENVS 486 and HS 486.

PJ 490E-W. INDEPENDENT STUDY IN PEACE AND JUSTICE (3). Offers independent exploration of areas of interest beyond the current curriculum.

PJ 495E-W. SELECTED TOPICS IN PEACE AND JUSTICE (3). Offers an opportunity to explore special topics such as nonviolent social change, regional conflicts, international violence and terrorism, and conflict resolution and management.

PJ 496. PEACE AND JUSTICE STUDIES PROJECT (4). The Peace and Justice Studies Project requires an Academic Internship with placement consistent with the primary area of concentration in the major; faculty advisor literature review; integrative demonstration illustrating area of concentration utilizing multiple perspectives; a reflective analysis essay; and public presentation of project. Prerequisite(s): PJ 400 and PJ 408 or permission of instructor.

PJ 498E-W. INTERNSHIP IN PEACE AND JUSTICE (3). Provides an intensive work experience appropriate to concerns for peace and justice. Prerequisite(s): PJ 400 and approval of program director required.

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PHILOSOPHY

Dr. Ted Zenzinger, Associate Professor, Chairperson

Dr. Ronald DiSanto, Professor

Dr. Stephen Doty, Professor

Dr. Karen Adkins, Associate Professor

Dr. Abigail Gosselin, Associate Professor

Dr. Jason Taylor, Assistant Professor

COURSE OFFERINGS

The Department offers courses at the 200 and 400 levels.

PL 270/PL 270C--Philosophical Explorations: This course, required of all students, allows students to enter into the rich, millennia old philosophical conversation. As participants in this ongoing conversation, students will learn to question and develop their beliefs about the central issues of life, to clarify and modify their pre-suppositions, to grow in critical thinking, and to experience an intellectual conversion to responsible and reflective thinking. These goals will be accomplished through a close and careful study of original and secondary sources, Socratic class discussions, and writing assignments that stress critical evaluation of arguments, as well as, the development of arguments to support the student's own position.

400-level courses: Each of these courses is designed primarily for Philosophy majors and minors, for students in the Honors Program, for students seeking an academic challenge, or for those who have strong interest in the topic of the course. The 400-level courses work with challenging texts and concepts, introduce students to philosophical research, and require the completion of more extended writing assignments.

Philosophy Major 24 SH

Upper Division Requirements *24 SH*

Twenty-four upper division semester hours of Philosophy courses beyond the Core Studies requirement, which must include:

One course on the history of philosophy selected from the following:

- PL 404--Classical Greek Philosophy 3 SH
  PL 406--Later Classical Philosophy 3 SH
  PL 411--Medieval Philosophy 3 SH

One course on the history of philosophy selected from the following:

- PL 417--The Emergence of Modernity 3 SH
  PL 418--The Philosophy of the Enlightenment 3 SH
  PL 419--19th Century Philosophy 3 SH

One course in ethics selected from the following:

- PL 448E-W--Special Topics in Ethics 3SH
  Any other 400-level ethics course with Advisor's approval 3SH

Four 400-level Philosophy courses chosen in consultation with the academic advisor 12 SH

PL 499--Senior Capstone 3 SH

Philosophy Minor 12 SH

Twelve upper division semester hours of Philosophy courses beyond the Core Studies requirement selected with the approval of the minor advisor.

Ethics, Politics and Society Minor

The courses that comprise this minor incorporate both philosophical perspectives and an applied perspective on problems at the intersection of ethics, politics, and society. This minor is designed for students who seek to continue the exploration of ethics, politics, and society begun through their courses in other departments and programs.

Twelve upper division semester hours of philosophy courses beyond the Core Studies requirement selected from the following:

PL 430--The Discourse of Non-Violence 3 SH

PL 448J--Selected Topics in Ethics: Environmental Ethics 3 SH

PL 448N--Selected Topics in Ethics: Drugs and Society 3 SH

PL 448M--Selected Topics in Ethics: The Politics of Poverty 3 SH

PL 450--Political Philosophy 3 SH

PL 451--American Political Thought 3 SH

PL 452--Philosophy of Law 3 SH

PL 458--Topics in Political Theory: Modern 3 SH

PL 459--Topics in Political Theory: Feminism 3 SH

PL 460--Critical Thinking 3 SH

PL 470--Feminist Theory 3 SH

PL 492J--Selected Themes in Philosophy: Justice - Economic Systems and Gender 3 SH

PL 492W--Selected Themes in Philosophy: Morality and Psychology of War 3 SH

PL 492X--Selected Themes in Philosophy: Liberation and Dynamics of Transformation 3 SH

PHILOSOPHY COURSE DESCRIPTIONS (PL)

PL 270/PL 270C. PHILOSOPHICAL EXPLORATIONS (3). An introductory course in philosophy which acquaints students with the range of questions and issues raised in both the philosophical tradition and contemporary thought. Engages students in a critical analysis and evaluation of different philosophical positions, including their own. NOTE: PL 270C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

PL 404. CLASSICAL GREEK PHILOSOPHY (3). Examines the origins of Western philosophical thinking in classical Greece. Traces the beginnings of metaphysical speculation and ethical reflection from the pre-Socrates to Plato and Aristotle. Prerequisite(s): One 200-level Philosophy course.

PL 406. LATER CLASSICAL PHILOSOPHY (3). Explores the movements of philosophy in the post-classical Greek and Roman periods with special emphasis on Stoicism, Epicureanism, and Neo-Platonism. Prerequisite(s): One 200-level Philosophy course.

PL 411. MEDIEVAL PHILOSOPHY (3). Explores Western philosophy from Augustine to the later Middle Ages. Prerequisite(s): One 200-level Philosophy course.

PL 417. THE EMERGENCE OF MODERNITY (3). Examines the significance and implications of the intellectual revolution in 17th century philosophical and scientific thought. Among the thinkers to be discussed may be Descartes, Galileo, Hobbes, Locke, and Newton. Prerequisite(s): One 200-level Philosophy course.

PL 418. THE PHILOSOPHY OF THE ENLIGHTENMENT (3). Explores the development of philosophy in the 18th century, often referred to as the period of Enlightenment. Among thinkers to be discussed may be Hume, Rousseau, and Kant. Prerequisite(s): One 200-level Philosophy course.

PL 419. 19TH CENTURY PHILOSOPHY (3). To what extent is reality, and hence our knowledge of reality, historical? Does history itself have an overall meaning? Explores these questions and others, in term of developments in philosophy during the 19th century. Thinkers discussed may include Hegel, Marx, Kierkegaard, and Nietzsche. Prerequisite(s): One 200-level Philosophy course.

PL 420. CONTEMPORARY CURRENTS (3). Summarizes key schools and movements on the contemporary philosophical scene. May emphasize analytic movement, phenomenology, existentialism and post modern movement. Prerequisite(s): One 200-level Philosophy course.

PL 427. 20TH CENTURY PHILOSOPHY: THE LINGUISTIC TRADITION (3). Traces the evolution of Anglo-American philosophy from logical positivism to linguistic analysis and more recent developments. Among the thinkers to be discussed may be Ayer, Quine, Wittgenstein, Cavell, and Davidson. Prerequisite(s): One 200-level Philosophy course.

PL 428. 20TH CENTURY PHILOSOPHY: THE PHENOMENOLOGICAL TRADITION (3). Traces the evolution of Continental philosophy from pure phenomenology to existential-phenomenology and more recent developments. Among the thinkers to be discussed may be Husserl, Heidegger, Sartre, Camus, Foucault, and Derrida. Prerequisite(s): One 200-level Philosophy course.

PL 429. 20TH CENTURY PHILOSOPHY: THE PRAGMATIST TRADITION (3). Traces the evolution of Pragmatism in this period from its origins in the writings of Peirce, James, and Dewey to its more recent renaissance in the writings of Rorty and others. Prerequisite(s): One 200-level Philosophy course.

PL 430. THE DISCOURSE OF NON-VIOLENCE (3). The justification of violence on the grounds of its necessity, legitimacy, usefulness, and moral character is contrasted with the alternative discourse of non-violence and its grounds of justification. The role each form of discourse plays in a theory of justice gets attention. Prerequisite(s): One 200-level Philosophy course or permission of instructor. Cross listing: PJ 430.

PL 433. ASIAN PHILOSOPHIES AND RELIGIONS (3). Surveys major religious traditions of Asia, including Hinduism, Buddhism, Confucianism, and Taoism, emphasizing understanding the world, the human and the Transcendent. Prerequisite(s): One 200-level Philosophy course or RT 201.

PL 435E-W. THEMES IN ASIAN PHILOSOPHIES AND RELIGIONS (3). Studies Asian religious traditions and attitudes, ancient and sacred scriptures, key historic figures, and contemporary issues. May cover the traditions of Buddhism, Hinduism, Confucianism, and Taoism in more depth. Prerequisite(s): One 200-level Philosophy course

PL 438. ETHICS (3). Questions the foundation of ethical judgment. Examines key responses to this question and explores various issues (e.g. abortion, capital punishment and the socioeconomic order). Prerequisite(s): One 200-level Philosophy course.

PL 440E-W. SELECTED TOPICS IN METAPHYSICS (3). An in-depth study of a metaphysical topic(s) such as the nature of reality, the make-up of human beings (mind-body problem), notions of truth, the experience of God, etc. or of a prominent metaphysical thinker(s). Prerequisite(s): One 200-level Philosophy course.

PL 441. THEORY OF KNOWLEDGE (3). How does human knowing occur? What is the meaning of "meaning"? What is required for validation? What are the relationships among language, thought and reality? Deals with these questions in such a way as both to provide an historical perspective and to elicit a personal stand. Prerequisite(s): One 200-level Philosophy course.

PL 442. PHILOSOPHY OF SCIENCE (3). Studies origins, nature, and development of scientific knowledge. Includes scientific method and the status of scientific conclusion. Prerequisite(s): One 200-level Philosophy course.

PL 443. PHILOSOPHY OF RELIGION (3). Surveys philosophical discussions of religion and religious ideas from both a classical and contemporary perspective. Prerequisite(s): One 200-level Philosophy course or RT 201.

PL 445. PHILOSOPHY OF ART (3). Examines the good and the beautiful, the relation of the beautiful to the artistic and the scientific, and the growth of human, moral good. Prerequisite(s): One 200-level Philosophy course.

PL 447. HEALTH CARE ETHICS (3). Explores ethical issues in the field of health care, including euthanasia, the use of scarce resources, provider-client responsibilities, and fetal research. Prerequisite(s): One 200-level Philosophy course or permission of instructor.

PL 448E-W. SPECIAL TOPICS IN ETHICS (3). Offers an in-depth study of a particular ethical thinker(s) both classical (e.g., Aristotle or Hume or Kant) and contemporary (e.g., MacIntyre or Nussbaum or Murdoch) or of a particular moral problem (e.g., capital punishment, just war theory, social justice). Prerequisite(s): One 200-level Philosophy course.

PL 450. POLITICAL PHILOSOPHY (3). Explores basic issues in political philosophy such as the relation of individual and society, freedom and authority and justice and equality. Prerequisite(s): One 200-level Philosophy course or permission of instructor. Cross listing: PJ 450.

PL 451. AMERICAN POLITICAL THEORY (3). Examines the historical context, religious and secular bases, and contending political and economic theories that underlie a spectrum of American thought. "American" considers inclusively and compares the northern, central and southern America. Prerequisite(s): POL 281, PL 270, or equivalent or permission of instructor. Cross listing: PJ 482F and POL 483.

PL 452. PHILOSOPHY OF LAW (3). Explores various issues in the philosophy of law, such as the relation of law to morality, the relation of natural law to morality, the question of natural law, and the nature and purpose of human law. Prerequisite(s): One 200-level Philosophy course. Cross listing: CR 456.

PL 454E-W. PHILOSOPHY AND SOCIAL ISSUES (3). Emphasizes philosophical analysis of contemporary social issues. May include war and morality, the nature of power and violence, philosophy and feminism, the social construction of human persons, etc. Prerequisite(s): One 200-level Philosophy course.

PL 456E-W. PHILOSOPHY IN LITERATURE (3). Explores the philosophical themes reflected in literature of specific authors and genres. Prerequisite(s): One 200-level Philosophy course.

PL 457. TOPICS IN POLITICAL THEORY: ANCIENT (3) Provides an intensive examination of the nature and aims of ancient political theory, related historical developments, major political thinkers, and significant topics of ancient western and non-western civilizations. Prerequisite(s): POL 281. Cross listing: PJ 482K and POL 482K. Note: Junior standing.

PL 458. TOPICS IN POLITICAL THEORY: MODERN (3) Provides an intensive examination of the nature and aims of modern and post-modern political theory, related historical and contemporary developments, major political thinkers, and significant topics of western and non-western modernity. Prerequisite(s): POL 281. Cross listing: PJ 482L and POL 482L. Note: Junior standing.

PL 459. TOPICS IN POLITICAL THEORY: FEMINISM (3) Provides an intensive examination of the nature and aims of feminist political theory, related historical and contemporary developments, major political thinkers, and significant topics of western and non-western gender in state and social affairs. Prerequisite(s): POL 281. Cross listing: PJ 482M and POL 482M. Note: Junior standing.

PL 460. CRITICAL THINKING (3). Provides a basic logic course aimed at developing the capacity to think clearly and critically, detecting and dealing with fallacious reasoning, unclear or misleading language, and manipulative techniques in various forms of human communication. Prerequisite(s): One 200-level Philosophy course.

PL 461. LOGIC AND INTUITION (3). Explores and compares the nature and worth of logical and intuitional modes of thinking, and their relationship to life problems. Prerequisite(s): One 200-level Philosophy course.

PL 470. FEMINIST THEORY (3). Focuses on the striking emergence of feminist philosophy in the last half of the twentieth century. Studies the development of this movement, its impact on philosophy, and the changes it portends for future philosophizing. Emphasis may be on different approaches with feminist thinking (e.g., Anglo-American vs. French feminist writers) or on specific issues in feminist thought. Prerequisite(s): One 200-level Philosophy course or WGS 400. Cross listing: WGS 470.

PL 486. PHILOSOPHICAL AND RELIGIOUS THEMES IN FILM (3). Integrates interests in grammar and meaning of film with inquiries into the "big questions" that are abiding concerns of philosophy and religion. Prerequisite(s): One 200-level Philosophy course or RT 201.

PL 490E-W. INDEPENDENT STUDY IN PHILOSOPHY (1-3). Provides an opportunity for independent study in an area of philosophical interest. Prerequisite(s): One 200-level Philosophy course and approval of department chair.

PL 491E-W. SELECTED THINKERS IN PHILOSOPHY (3). Explores selected thinkers from ancient, medieval, modern, or contemporary periods of philosophy. Prerequisite(s): One 200-level Philosophy course.

PL 492E-W. SELECTED THEMES IN PHILOSOPHY (3). Offers an opportunity to explore special topics such as war and peace, human sexuality, creative imagination, technological culture based on historical, literary, religious, and philosophical contexts. Prerequisite(s): One 200-level Philosophy course.

PL 494. PHILOSOPHICAL PRACTICUM (3). Students will bring together their heads, their hearts, and their hands. Combines a variety of readings with a student-developed semester long project; projects might include service-learning, an internship, or another type of project that reflects a student's interests. Prerequisite(s): PL 270 or permission of instructor.

PL 498E-W. INTERNSHIP IN PHILOSOPHY (3). Offers an opportunity to explore philosophy in its practical application to the various working areas or contemporary life and to reflect critically and constructively on the experience. Prerequisite(s): One 200-level Philosophy course and approval of department chair and director of the Academic Internship Program.

PL 499. SENIOR CAPSTONE (3). Critically examines issues that are determined to be most significant in the course of the major's philosophy program. Students may choose either a research track or a track leading to a comprehensive examination. Prerequisite(s): Philosophy majors and minors only. NOTE: To be taken at the end of a student's participation in the program.

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PHYSICAL EDUCATION

Ms. Nan Williams, Program Director

A major in Physical Education is available only through the Thematic Major Program.

DEPARTMENTAL REGULATIONS

Independent Studies and Internships are given only to students with previous 400-level coursework in the department and who plan to minor in one of the areas listed below.

Physical Education Minor	**15 SH**
Prerequisite	*3 SH*
PE 333--First Aid Emergency Response	3 SH
Upper Division Requirements	*12 SH*
Twelve upper division semester hours of Physical Education courses.	

Physical Education: Coaching Minor	**21 SH**
Prerequisite	*3 SH*
PE 333--First Aid Emergency Response	3 SH
Upper Division Requirements	*18 SH*
PE 413--Principles of Exercise Performance and Sport Nutrition	3 SH
PE 425--Principles of Coaching	3 SH
PE 426--Care and Prevention of Athletic Injuries	3 SH
PE 437--Sport Ethics	3 SH
PE 438--Sport Administration	3 SH
PE 498G--Internship in Coaching	3 SH

PHYSICAL EDUCATION COURSE DESCRIPTIONS (PE)

PE 210. WEIGHT TRAINING (1). Studies resistive exercise emphasizing individual programs from beginning through advanced levels. Offers instruction in the use of free weights and machines, different types of resistive exercises, correct technique for exercises and safety procedures in the weight room. Includes flexibility, anaerobic and aerobic exercises, and their importance in relation to resistive training.

PE 217. ROCK CLIMBING I (1). Introduces basic techniques and safety skills required for mountain climbing. Includes on-campus instruction and conditioning followed by four, off-campus rock climbing experiences. NOTE: Travel required.

PE 220. ICE CLIMBING (1). Introduces basic techniques and safety skills for ice climbing. Includes two on campus meetings with instruction followed by three off campus ice climbing experiences. NOTE: Travel required.

PE 223. GOLF I (1). Introduces basic swing, approach shots and putting for the novice or non-skilled golfer. Teaches rules, etiquette and course play followed by application of knowledge and skill through play at a local golf course. NOTE: Travel required.

PE 237. ROCK CLIMBING II (1). Provides advanced experience in rock climbing techniques. Emphasizes the safety aspects of the sport. Taught concurrently with PE 217. Prerequisite(s): PE 217. NOTE: Travel required.

PE 315. BASIC BACKPACKING TECHNIQUES (2). Introduces the sport of backpacking. Emphasizes topographic map reading, mountain survival skills, accident and illness prevention, food selection and preparation, clothing and equipment, individual and group backpacking skills. Includes three all-day hiking experiences. NOTE: Travel required.

PE 325. NUTRITION: CONCEPTS AND CONTROVERSIES (2). Examines the principles behind good nutritional choices. Includes the interaction of energy nutrients, vitamins, and minerals with the body's process, and the impact of harmful substances on these processes and weight control issues.

PE 333. FIRST AID EMERGENCY RESPONSE (3). Consists of recognizing and caring for victims of any age. Situations, which include breathing, choking, and cardiac emergencies, are examined. Studies the care of injuries such as cuts, burns, sprains, fractures, and sudden illnesses. Certification in First Aid, Adult, Child, and Infant CPR are offered.

PE 401. WOMEN'S HEALTH ISSUES (3). Focuses on the maintenance and promotion of women's health across the full spectrum of women's lives. Topics explore physiological, psychological, cultural, economic, sociological, and spiritual factors that influence women's health over the life span. Cross listing: HSC 401 and WGS 401. NOTE: For non-Nursing majors.

PE 413. PRINCIPLES OF EXERCISE PERFORMANCE AND SPORT NUTRITION (3). Designed for students interested in applying fitness principles into their daily lives. Offers the latest findings in exercise physiology and sport medicine, along with tools for self-assessment and guidelines for improving fitness levels.

PE 418. WELLNESS: A PERSONAL COMMITMENT (3). Studies the seven dimensions of wellness: occupational, environmental, physical, social, emotional, intellectual and spiritual wellness, developing an information base from which to make effective decisions. Prerequisite(s): Junior standing. Cross listing: ED 418.

PE 420. OUTDOOR RECREATIONAL LEADERSHIP (3). Includes instruction and practice of outdoor recreational and survival skills for the outdoor recreation enthusiast. Examines recreational facilities in terms of programming, management, and supervision.

PE 425. PRINCIPLES OF COACHING (3). Develops basic principles and philosophies of coaching, which can be applied to all sports. Includes psychology of coaching, principles of conditioning, techniques for training, applied theory and practice.

PE 426. CARE AND PREVENTION OF ATHLETIC INJURIES (3). Includes anatomical analysis of the human body and the potential for athletic injury. Includes diagnosing injuries, prevention and preseason and in-season training techniques, treatment and rehabilitation processes. NOTE: Students may be responsible for additional course supplies.

PE 437. SPORT ETHICS (3). Challenges students to examine ethical issues in sport. Provides a historical and sociological perspective on the issues facing youth in interscholastic, intercollegiate, Olympic, and professional sports.

PE 438. SPORT ADMINISTRATION (3). Examines current trends and practices in management and administration. Explores areas in public relations, communication, law, and risk management.

PE 490E-W. INDEPENDENT STUDY IN PHYSICAL EDUCATION (1-3). Provides an opportunity for independent explorations of areas of interest. Prerequisite(s): Approval of department chair.

PE 495E-W. SEMINAR IN PHYSICAL EDUCATION (1-3). Offers seminars on current topics in areas of physical education.

PE 496E-W. SEMINAR IN RECREATION (1-3). Offers seminars on current topics in areas of recreation.

PE 497E-W. SEMINAR IN COACHING (1-3). Offers seminars on current topics in areas of coaching.

PE 498E-W. INTERNSHIP IN PHYSICAL EDUCATION (3). Provides an opportunity for an internship in physical education under the supervision of a department member. Prerequisite(s): Approval of department chair and director of the Academic Internship Program. NOTE: Internships may be taken in physical education (E), recreation (F), coaching (G), athletic training (H) and outdoor education (I).

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PHYSICS AND COMPUTATIONAL SCIENCE

Dr. James Seibert, Associate Professor, Chairperson

Dr. Dennis Steele, Associate Professor

Dr. Frederick Gray, Assistant Professor

Dr. Quyen Hart, Assistant Professor

Ms. Patricia Litz, Instructor

Dr. David Bahr, Guest Professor

The Physics and Computational Science department educates the next generation of scientific and technology leaders within a moral, ethical and intellectually stimulating environment. Graduates are prepared not just for the technological challenges of the workplace but also for the exciting science that will drive the next generation of solutions. The focus on both science and technology creates critical-thinking, well-rounded individuals that can participate and positively influence both the social and engineering challenges of our times.

Physics and Computational Science addresses fundamental questions about the physical and informational nature of the universe. How do conservation principles guide physical interactions and information processing? What is the structure of matter, space, energy, time, and information? In addition to a solid grounding in each discipline, the department addresses modern concepts that cross both boundaries. What are the physical limits to information, how much information can be squeezed into how little space, can computation happen without loss of energy, is the universe itself a computer (as proposed by many)?

COMPUTER SCIENCE

Computer Science focuses on three fundamental processes 1) design--our engineering roots, 2) abstraction--our science roots, and 3) theory--our logical roots. A graduate of our program will be able to design and use computers, as well as comprehend the theory and science that drives contemporary developments. In particular, when selecting from the upper division requirements, the student will learn about automata, algorithms and data structures, architecture and digital design, artificial intelligence and

artificial life, database and information retrieval, human-computer interaction, numerical and symbolic computations, net-centric computing, operating systems, programming languages, and software methodology. These topics are introduced in many classes and in many forms, so any selection of coursework will cover theses subject areas. Students are encouraged to supplement their coursework with additional math and physics classes such as MT 360B, MT 405, MT 435, PH 304A, and PH 305A. These classes are usually required for graduate work. A minor (or double major) in physics or math would be especially beneficial. For recommendations on particular course sequences, please contact your advisor.

Computer Science Major	**46 SH**
Lower Division Requirements	*13 SH*
CS 300--Foundations of Computer Science or CS 282--Introduction to Information Systems Concepts	3 SH
CS 308--Introduction to Programming	3 SH
MT 360A--Calculus I	4 SH
MT 415--Linear Algebra	3 SH
Upper Division Requirements	*33 SH*
Thirty-three semester hours selected from the following:	
CS 417--Artificial Life	3 SH
CS 427--Object Oriented Software Development	3 SH
CS 429--Automata Theory	3 SH
CS 431--Operating Systems Design and Analysis	3 SH
CS 435--Data Structures	3 SH
CS 441--Digital Design Theory and Technologies	3 SH
CS 446--Database Design and Analysis	3 SH
CS 449--Algorithms and Complexity	3 SH
CS 451--Telecommunications: Applied Digital Signal Processing	3 SH
CS 456--Software Engineering	3 SH
CS 462--Computer Systems Performance Analysis	3 SH
CS 464--Artificial Intelligence: Neural Networks	3 SH
CS 470--Cellular Automata Social and Physical Applications	3 SH
CS 490E-W--Independent Study in Computer Science	1-3 SH
CS 498E-W--Internship in Computer Science	3 SH
PH 410--Electricity and Magnetism	3 SH
PH 420--Electronics	4 SH

Computer Science Minor	**22 SH**
Lower Division Requirements	*10 SH*
CS 300--Foundations of Computer Science or CS 282--Introduction to Information Systems Concepts	3 SH
CS 308--Introduction to Programming	3 SH
MT 360A--Calculus I	4 SH
Upper Division Requirements	*12 SH*
Twelve semester hours selected from the upper division Computer Science major requirements.	

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PHYSICS

Physicists develop and test models that describe the behavior of matter and energy at scales ranging from the subatomic to the galactic. Students in this program will take a variety of courses in classical and modern physics that will prepare them to understand phenomena at many points along this continuum, as well as exciting topics at the boundaries between physics and other scientific disciplines. Students will develop hands-on experimental and computational abilities while also sharpening their mathematical reasoning skills.

Both a traditional physics degree and a hybrid program in computational physics are offered. The computational physics degree emphasizes the close connections between the disciplines of physics and computer science and prepares students for a wide variety of careers in science and technology.

Bachelor of Science in Computational Physics	**62 SH**
Lower Division Requirements	*26 SH*
CS 300--Foundations of Computer Science	3 SH
CS 308--Introduction to Programming	3 SH
MT 360A--Calculus I	4 SH
MT 360B--Calculus II	4 SH
MT 360C--Calculus III	4 SH
PH 304A--General Physics with Calculus I	3 SH
PH 305A--General Physics with Calculus Laboratory I	1 SH
PH 304B--General Physics with Calculus II	3 SH
PH 305B--General Physic with Calculus Laboratory II	1 SH

Upper Division Requirements	*36 SH*
MT 405--Numerical and Computational Methods	3 SH
MT 463--Differential Equations	3 SH
PH 408--Analytical Mechanics and Special Relativity	3 SH
PH 410--Electricity and Magnetism	3 SH
PH 451--Modern Physics Laboratory and Seminar	2 SH
PH 460--Quantum Theory and Spectroscopy	3 SH
PH 465--Statistical Mechanics and Thermodynamics	3 SH
PH 475--Physics Capstone Seminar	1 SH
Fifteen Upper Division Computer Science Electives selected from the following:	
CS 417--Artificial Life	3 SH
CS 427--Object Oriented Software Development	3 SH
CS 429--Automata Theory	3 SH
CS 431--Operating Systems Design and Analysis	3 SH
CS 435--Data Structures	3 SH
CS 441--Digital Design Theory and Technologies	3 SH
CS 446--Database Design and Analysis	3 SH
CS 449--Algorithms and Complexity	3 SH
CS 451--Telecommunications: Applied Digital Signal Processing	3 SH
CS 456--Software Engineering	3 SH
CS 462--Computer Systems Performance Analysis	3 SH
CS 464--Artificial Intelligence: Neural Networks	3 SH
CS 470--Cellular Automata Social and Physical Applications	3 SH
PH 420--Electronics	4 SH

Bachelor of Science in Physics Major 58 SH

Lower Division Requirements	*33 SH*
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
CS 308--Introduction to Programming	3 SH
MT 360A--Calculus I	4 SH
MT 360B--Calculus II	4 SH
MT 360C--Calculus III	4 SH
PH 304A--General Physics with Calculus I	3 SH
PH 305A--General Physics with Calculus Laboratory I	1 SH
PH 304B--General Physics with Calculus II	3 SH
PH 305B--General Physic with Calculus Laboratory II	1 SH
Upper Division Requirements	*25 SH*
MT 463--Differential Equations	3 SH
PH 408--Analytical Mechanics and Special Relativity	3 SH
PH 410--Electricity and Magnetism	3 SH
PH 420--Electronics or PH 425--Optics with Laboratory	4 SH
PH 451--Modern Physics Laboratory and Seminar	2 SH
PH 460--Quantum Theory and Spectroscopy	3 SH
PH 465--Statistical Mechanics and Thermodynamics	3 SH
Upper Division Physics/Astronomy Electives	*3 SH*
PH 475--Physics Capstone Seminar	1 SH

Physics Minor 24 SH

Lower Division Requirements	*12 SH*
PH 304A--General Physics with Calculus I	3 SH
PH 305A--General Physics with Calculus Laboratory I	1 SH
PH 304B--General Physics with Calculus II	3 SH
PH 305B--General Physics with Calculus Laboratory II	1 SH
MT 360A--Calculus I	4 SH
Upper Division Requirements	*12 SH*

Twelve upper division (400-level) semester hours of Physics courses selected with approval of the major advisor. Additional laboratory hours may be required.

PHYSICS AND COMPUTATIONAL SCIENCE COURSE DESCRIPTIONS (CS & PH)

COMPUTER SCIENCE (CS)

CS 282. INTRODUCTION TO INFORMATION SYSTEMS CONCEPTS (3). Introduces information systems concepts, architectures, and technologies emphasizing information system resources needed to meet organizational mission and objectives. Focuses on information systems from the business viewpoint including processes, value proposition, and different types of information systems. Presents key areas of networking, databases, and software applications to provide an overall information systems background. Explores research, case studies, and different information system applications to gain familiarity with the foundational concepts of information systems. Cross listing: BA 282.

CS 300. FOUNDATIONS OF COMPUTER SCIENCE (3). Introduces foundational concepts of computer science including algorithm design, iteration, recursion, abstract data types, file structures, Boolean algebra, lists, graphs, trees, and networks. Uses Java as a "description" language for expressing algorithms. Uses tracing techniques extensively.

CS 308. INTRODUCTION TO PROGRAMMING (3). Introduces the fundamental constructs that are common to all modern computer languages. Emphasizes basic programming skills with loops, conditionals, methods, and arrays. Prerequisite(s): High School algebra or permission of instructor required.

CS 417. ARTIFICIAL LIFE (3). Explores the theory and application of genetic algorithms that model the biological process of evolution. Creates artificial life forms that evolve to solve complex problems. Includes exploration of evolutionary programming, or code that writes itself. Prerequisite(s): CS 427 or permission of instructor required.

CS 427. OBJECT ORIENTED SOFTWARE DEVELOPMENT (3). Develops advanced programming skills using objects, classes, instance variables, inheritance, and polymorphism. Examines object behavior and identity, along with encapsulation of state. Explores late binding, inner classes and the problems and advantages of multiple inheritance. Prerequisite(s): CS 308 or equivalent.

CS 429. AUTOMATA THEORY (3). Studies applications of automata theory to lexical analysis, syntax analysis, regular expressions, non-deterministic finite state automata, top-down and bottom-up parsing techniques and syntax-driven code generation. Requires implementation of a recursive decent parser of the LL variety and an LR (k) parser. Prerequisite(s): CS 300 and CS 308.

CS 431. OPERATING SYSTEMS DESIGN AND ANALYSIS (3). Includes processor scheduling, multiprocessor scheduling, deadlock detection and prevention, memory management, hashing, performance directed cache design, multilevel cache hierarchies, virtual memory, demand paging, thrashing and locality, disk scheduling, distributed systems, networked environments, and performance analysis based on mathematical modeling techniques. Prerequisite(s): CS 300 and MT 360A.

CS 435. DATA STRUCTURES (3). Studies data organization and structure. Includes relations, graphs, trees, primitive and structured data types, arrays, records, files, fields, ordered lists, linked lists, directories, mappings, addressing schemes and complex files. Prerequisite(s): CS 300 and CS 308 or permission of the instructor.

CS 439. COMPUTER ARCHITECTURE (3). Describes the organization of modern computers. Discusses the Von Neumann architecture, binary representations of data, instruction set architectures, assembly language programming, pipelining and instruction-level parallelism, the memory hierarchy, and input/output architectures. Introduces multiprocessor systems and networking. Prerequisite(s): CS 308.

CS 441. DIGITAL DESIGN THEORY AND TECHNOLOGIES (3). Studies combinational and sequential logic circuits using standard and mixed logic. Includes minimization, multiplexers, demultiplexers, plas, counters, registers, decoders, encoders, flip-flops, finite sate machines, design of RISC machines, systolic architectures, nmos, pmos, CMOS, VLSI design using stick diagrams, channel routing algorithms, design for test, latch-up and fabrication techniques. Prerequisite(s): CS 300.

CS 446. DATABASE DESIGN AND ANALYSIS (3). Emphasizes the relational model including a relational algebra, a relational calculus, functional dependencies, irreducible covers, normalization, database integrity, domain checking, closure, data protection, optimization of queries, distributed databases, client server systems and object oriented systems. Prerequisite(s): CS 300 or CS 308 or permission of instructor required.

CS 449. ALGORITHMS AND COMPLEXITY (3). Concentrates on NP-complete problems and the algorithms that solve NP-complete problems. Involves designing and analyzing algorithms from an efficiency point of view. Prerequisite(s): MT 360B or equivalent.

CS 451. TELECOMMUNICATIONS: APPLIED DIGITAL SIGNAL PROCESSING (3). Introduces digital signal processing synthesis and analysis, the Fourier and Fast Fourier transform, and computational and programming techniques. Prerequisite(s): MT 360A.

CS 456. SOFTWARE ENGINEERING (3). Examines object-oriented techniques to ensure reliable, flexible, modular, and well-designed software. Introduces UML and the software lifecycle including project management and quality assurance. Emphasizes the implementation of design patterns such as the Bridge, Abstract Factory, and Singleton. Prerequisite(s): CS 427.

CS 462. COMPUTER SYSTEMS PERFORMANCE ANALYSIS (3). Covers mathematical models based on queuing theory, stochastic processes, Markov chains and mean value analysis. Discusses applications to computer systems for the purpose of optimizing performance. Includes problems and a project requiring the modeling contemporary disk technologies and system balancing techniques. Prerequisite(s): CS 300 and MT 360A.

CS 464. ARTIFICIAL INTELLIGENCE: NEURAL NETWORKS (3). Reviews the artificial intelligence field followed by an intense treatment of neural net theory and technologies. Examines Hopfield networks, Boltzmann networks, back-propagation algorithms, mathematical convergence criteria, and neural net applications to classical problems such as TSP. Prerequisite(s): CS 308 and MT 360A.

CS 470. CELLULAR AUTOMATA WITH SOCIAL AND PHYSICAL APPLICATIONS (3). Uses behavior of cellular automata to explore theories of computation and complexity. Investigates universal computability and the emergence of complex natural behaviors from simple computational systems. Example applications in physics, biology, sociology. Prerequisite(s): CS 308.

CS 490E-W. INDEPENDENT STUDY IN COMPUTER SCIENCE (1-3). Explores areas of interest. Content to be arranged. Concludes with a written report. Prerequisite(s): Approval of department chair.

CS 493. SENIOR CAPSTONE (3-6). Provides the culminating experience of the major, focusing on integration and application of theory. Must be completed as graded coursework at Regis University. Prerequisite(s): Majors only and Senior standing.

CS 498E-W. INTERNSHIP IN COMPUTER SCIENCE (3). Involves placement of advanced computer science students in industry, government or other agencies. Faculty approval, supervision, and evaluation of students' work required. Prerequisite(s): CS 456. Majors only. Approval of department chair and director of the Academic Internship Program. NOTE: 2.500 cumulative grade point average required.

PHYSICS (PH)

PH 202A. GENERAL PHYSICS WITH TRIGONOMETRY I (3). Discusses fundamental concepts of motion, including Newton's Laws and the conservation of energy, momentum, and angular momentum. Focuses on the development of quantitative and qualitative problem-solving skills. Co-requisite: PH 205A. Prerequisite(s): MT 260 or equivalent or permission of instructor. NOTE: This course has been approved to satisfy the core Category II natural science with laboratory requirement when taken with PH 205A.

PH 202B. GENERAL PHYSICS WITH TRIGONOMETRY II (3). A continuation of PH 202A, focusing on electricity, magnetism, and waves. Includes an introduction to quantum mechanics. Co-requisite: PH 205B. Prerequisite(s): PH 202A.

PH 205A. GENERAL PHYSICS WITH TRIGONOMETRY LABORATORY I (1). Complements PH 202A, providing practical, hands-on experience primarily with experiments related to mechanics. Co-requisite: PH 202A. NOTE: One three-hour laboratory each week required.

PH 205B. GENERAL PHYSICS WITH TRIGONOMETRY LABORATORY II (1). Complements PH 202B, providing practical, hands-on experience primarily with experiments related to electricity, magnetism, and introductory modern physics. Co-requisite: PH 202B. NOTE: One three-hour laboratory each week required.

PH 304A. GENERAL PHYSICS WITH CALCULUS I (3). Discusses fundamental concepts of motion, including Newton's Laws and the conservation of energy, momentum, and angular momentum. Focuses on the development of quantitative and qualitative problem-solving skills. Prerequisite(s): MT 360A. Co-requisite: PH 305A. NOTE: This course has been approved to satisfy the core Category II natural science with laboratory requirement when taken with PH 305A.

PH 304B. GENERAL PHYSICS WITH CALCULUS II (3). A continuation of PH 304A, focusing on electricity, magnetism, and waves. Includes an introduction to quantum mechanics.. Co-requisite: PH 305B. Prerequisite(s): PH 304A.

PH 305A. GENERAL PHYSICS WITH CALCULUS LABORATORY I (1). Compliments PH 304A, providing practical, hands-on experience primarily with experiments related to mechanics. Co-requisite: PH 304A.

PH 305B. GENERAL PHYSICS WITH CALCULUS LABORATORY II (1). Compliments PH 304B, providing practical, hands-on experience primarily with experiments related to mechanics. Co-requisite: PH 304B.

PH 408. ANALYTICAL MECHANICS AND SPECIAL RELATIVITY (3). Reviews Newtonian mechanics. Introduces calculus of variations and the Lagrangian and Hamiltonian formulations. Describes collisions and oscillations, including normal modes of coupled systems. Introduces relativistic kinematics. Prerequisite(s): MT 363 and PH 304A.

PH 410. ELECTRICITY AND MAGNETISM (3). Studies Coulomb's law through the electromagnetic field of moving charge. Develops electrostatic fields in vacuum and in dielectrics, magnetic fields associated with constant and variable currents in vacuum and in magnetic materials, Maxwell's synthesis, and the propagation of electromagnetic waves in vacuum, in dielectrics and in good conductors. Prerequisite(s): MT 360C and PH 304B.

PH 420. ELECTRONICS (4). Discusses electronics and circuits. Includes AC and DC circuit analysis, physics of semiconductor devices, applications of transistors and operational amplifiers, and an introduction to digital logic and computer interfaces. NOTE: One three-hour lab per week.

PH 425. OPTICS WITH LABORATORY (4). Reviews geometric optics and simple interference and diffraction phenomena. Introduces aberrations, Fresnel and Fraunhofer diffraction, the Michelson interferometer, circular and elliptical polarization, birefringence, and nonlinear crystals. Examines coherence; students build a laser cavity. Prerequisite(s): PH 304B. NOTE: One three hour laboratory each week.

PH 451. MODERN PHYSICS LABORATORY AND SEMINAR (2). Exploration of quantum and relativistic phenomena, application of statistical methods to experimental data, and discussion of ethical considerations in physics research. Prerequisite(s): PH 304B. Note: One hour of lecture/discussion and one three-hour laboratory session each week.

PH 460. QUANTUM THEORY AND SPECTROSCOPY (3). Formal development of the theory of quantum mechanics with applications to electronic, vibrational, and rotational structure of molecules, spectroscopic techniques, and chemical bonding. Prerequisite(s): CH 230 and PH 304B. Cross-listing: CH 430B.

PH 465. STATISTICAL MECHANICS AND THERMODYNAMICS (3). Application of statistical methods to explain the laws of thermodynamics. Includes discussion of temperature, multiplicity of states, entropy, Boltzmann factors, and the partition function, applied to systems including ideal gases, quantum gases, and solids. Prerequisite(s): PH 304A.

PH 470. INTRODUCTION TO ASTROPHYSICS (3). Reviews the observational bases of astrophysics, radiative properties of stars, stellar spectra, binary and variable stars, stellar interiors and evolution, and galaxies and cosmology. Includes observational work. Prerequisite(s): PH 304B. NOTE: Recommended as a physics elective or following completion of general physics and calculus.

PH 475. PHYSICS CAPSTONE SEMINAR (3). Review of and reflection on the physics curriculum, including extensions of selected assignments completed in previous courses. Discussion of the ethical considerations faced by practicing scientists. NOTE: Majors only and senior class standing.PH 490E-W. INDEPENDENT STUDY IN PHYSICS (1-4). Offers an opportunity for advanced independent research. Prerequisite(s): Approval of department chair.

PH 490E-W. INDEPENDENT STUDY IN PHYSICS(1-4). Offers an opportunity for advanced independent research. Prerequisite(s): Approval of Department Chair.

PH 498E-W. INTERNSHIP IN PHYSICS (3). Involves placement of advanced physics students in industry, government or other agencies. Faculty approval, supervision, and evaluation of students' work required. Prerequisite(s): PH 451 NOTE: Majors only and approval of department chair required.

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PRE-HEALTH SCIENCES

Dr. Joan Betz, Advisor

Health-science graduate programs such as medical, dental, and physical therapy schools select students after considering evidence of intellectual ability, motivation, an understanding of the nature of health professions, and past academic and personal achievement. Students should be prepared to answer the question "Why do you want to become a health care professional?" Toward that end, students are encouraged to gain experience in health-related service areas, including volunteer or internship opportunities. One aspect of achievement is the success of a student's curriculum, which should include a substantial amount of modern science. There are no official pre-health majors such as pre-medical, pre-dental, or pre-physical therapy majors; rather any major can be suitable, provided students satisfy the minimum course requirements for post-graduate work. Many applicants major in Biology, Biochemistry, Chemistry, or Neuroscience.

Standardized aptitude/achievement tests (MCAT, DAT, GRE) are given substantial weight by health-science graduate programs in the admissions process. A general background in the fundamentals of modern science is required for good performance on most of these tests. Therefore, any curriculum undertaken by a pre-health science student should include appropriate science courses. Because health science professions involve far more than basic science, students should demonstrate evidence of personal development, maturity, and experience. For further information and suggestions students should consult the pre-health sciences advisor and the pre-medical/health web page on the Regis University website. Students may wish to participate in activities of Alpha Epsilon Delta, the National Health Pre-professional Honor Society.

Pre-health science students typically take Biology (BL 260/261; BL 262/263) and Chemistry courses (CH 210/211; CH 230/231) freshman year, often with mathematics. The prerequisite requirements for programs vary both among disciplines and among schools within disciplines. The course prerequisites listed below are approximate and designed for students planning to apply to multiple schools. There are many health science professions in addition to those listed. Students should consult individual graduate programs for specific prerequisite requirements and additional recommended courses, and meet with their academic advisor and with the pre-health advisor.

Pre-Dental, Pre-Medical, and Pre-Veterinary Typical Prerequisites	***51-56 SH***
BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic	3 SH
BL 263--Organismic Biology Laboratory	1 SH
RCC 200--Writing Analytically	3 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
CH 250--Organic Chemistry I	4 SH
CH 251--Organic Chemistry Laboratory I	1 SH
CH 420--Organic Chemistry II	3 SH
CH 421--Organic Chemistry Laboratory II	2 SH
EN 250--Literature Matters	3 SH
PY 250/PY 250C--General Psychology	3 SH
and/or	
SO 200--Introduction to Sociology	3 SH
Two courses in Mathematics	6-8 SH

One of the following 8 semester hours options of physics:

• PH 202A--General Physics with Trigonometry I	3 SH
PH 205A--General Physics with Trigonometry Laboratory I	1 SH
PH 202B--General Physics with Trigonometry II	3 SH
PH 205B--General Physics with Trigonometry Laboratory II	1 SH
• PH 304A--General Physics with Calculus I	3 SH
PH 305A--General Physics with Calculus Laboratory I	1 SH
PH 304B--General Physics with Calculus II	3 SH
PH 305B--General Physics with Calculus Laboratory II	1 SH

Pre-Physician Assistant Typical Prerequisites	***48-50 SH***
BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic	3 SH
BL 263--Organismic Biology Laboratory	1 SH
BL 406--Human and Comparative Anatomy	3 SH
BL 407--Human and Comparative Anatomy Laboratory	1 SH
BL 414--Principles of Genetics	3 SH
BL 415--Genetics Laboratory	1 SH
BL 418--Microbiology	3 SH
BL 419--Microbiology Laboratory	1 SH
BL 436--Animal Physiology	3 SH
RCC 200--Writing Analytically	3 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
English Literature Electives	6 SH
Two courses in Mathematics	6-8 SH

Pre-Physical Therapy Typical Prerequisites	***53 SH***
BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic	3 SH
BL 263--Organismic Biology Laboratory	1 SH
BL 274--Introduction to Human Anatomy	3 SH
BL 275--Human Anatomy Laboratory	1 SH
BL 276--Introduction to Human Physiology	3 SH
BL 277--Human Physiology Laboratory	1 SH
RCC 200--Writing Analytically	3 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
EXS 424--Biomechanics of Exercise	3 SH
MT 272/MT 272C--Statistics for the Life Sciences	3 SH

MT 360A--Calculus I	4 SH
PY 250/PY 250C--General Psychology	3 SH
One or more of the following courses in Psychology:	
PY 459--Developmental Psychology: Child	3 SH
PY 460--Developmental Psychology: Adolescence	3 SH
PY 461--Developmental Psychology: Adulthood and Aging	3 SH
PY 471--Abnormal Psychology	3 SH
One of the following 8 semester hours options of physics:	
• PH 202A--General Physics with Trigonometry I	3 SH
PH 205A--General Physics with Trigonometry Laboratory I	1 SH
PH 202B--General Physics with Trigonometry II	3 SH
PH 205B--General Physics with Trigonometry Laboratory II	1 SH
• PH 304A--General Physics with Calculus I	3 SH
PH 305A--General Physics with Calculus Laboratory I	1 SH
PH 304B--General Physics with Calculus II	3 SH
PH 305B--General Physics with Calculus Laboratory II	1 SH
Pre-Pharmacy Typical Prerequisites	***67 SH***
BL 260--Principles of Biology: Molecular and Cellular	3 SH
BL 261--Molecular and Cellular Biology Laboratory	1 SH
BL 262--Principles of Biology: Organismic	3 SH
BL 263--Organismic Biology Laboratory	1 SH
BL 274--Introduction to Human Anatomy	3 SH
BL 275--Human Anatomy Laboratory	1 SH
BL 276--Introduction to Human Physiology	3 SH
BL 277--Human Physiology Laboratory	1 SH
BL 418--Microbiology	3 SH
BL 419--Microbiology Laboratory	1 SH
RCC 200--Writing Analytically	3 SH
CH 210--Principles of Chemistry I	4 SH
CH 211--Principles of Chemistry Laboratory I	1 SH
CH 230--Principles of Chemistry II	4 SH
CH 231--Principles of Chemistry Laboratory II	1 SH
CH 250--Organic Chemistry I	4 SH
CH 251--Organic Chemistry Laboratory I	1 SH
CH 420--Organic Chemistry II	3 SH
CH 421--Organic Chemistry Laboratory II	1 SH
COM 210--Speech Communication	3 SH
EC 200--Introduction to the American Economy	3 SH
MT 360A--Calculus I	4 SH
PL 270--Philosophical Explorations	3 SH
PY 250/PY 250C--General Psychology	3 SH
RT 201/RT 201C--Religion and the Human Quest	3 SH
SO 200/SO 200C--Introduction to Sociology	3 SH
Social Science Elective	3 SH

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PSYCHOLOGY

Rev. Charles Shelton, S.J., Professor, Chairperson

Dr. Mark Basham, Associate Professor

Dr. Jose LaFosse, Associate Professor

Dr. Rona McCall, Associate Professor

Dr. Rebecca Betjemann, Assistant Professor

Dr. Brian Drwecki. Assistant Professor

The curriculum of the Psychology major is designed to provide a working knowledge of factual and current theoretical information in the field. Content is balanced with the development of critical thinking, problem-solving skills, and an appreciation of cultural diversity. The application of psychological principles is strongly encouraged through service learning, Internship, and research opportunities.

The department offers a Bachelor of Science degree in Psychology. The degree requirements are designed with the latitude to prepare students interested in:

- Pursuing graduate work in Psychology.
- Embarking on a career in Psychology or related area where a combination of analytic and human skills is applicable.
- A liberal arts education in which Psychology is a related and relevant major.

Students should work closely with their major advisor to plan a program of study commensurate with their educational and vocational goals.

DEPARTMENTAL REGULATIONS

The major requires a minimum of 43 semester hours, of which a minimum of 27 semester hours must be taken from the Required Breadth Courses (see Required Breadth Courses for all majors below). With the approval of the Department, 300-level courses may be used in meeting major or minor requirements.

The Department requires that five upper division Psychology courses plus PY 493--Senior Capstone (minimum 16 semester hours) be taken at Regis College to receive a degree with a major in Psychology.

The minimum passing grade for any course taken towards satisfying the Psychology major or minor is a "C-". This standard applies to all lower and upper division Psychology courses and all other courses required for the major or minor.

Psychology Major 47-48 SH

Lower and Upper Division Requirements *47-48 SH*

MT 272/MT 272C--Statistics for the Life Sciences (also meets the Mathematics Core Studies requirement)	3 SH
NS 260--Introduction to Brain and Behavior	3 SH
NS 261--Introduction to Brain and Behavior Laboratory	1 SH
PY 250/250C/250H--General Psychology	3 SH
PY 419--Research Methods	3 SH
PY 420--Research Methods Laboratory	1 SH
PY 493--Senior Capstone	2 SH
An additional natural science course with a laboratory chosen in consultation with an academic advisor.	4 SH

Required Breadth Courses

In addition to courses listed above, a minimum of 27 upper division semester hours of Psychology courses must be taken. Additionally, a minimum of two courses must be taken from each of the Groups A through D. The major advisor should be consulted about the best combination of courses to take from each group based on the student's educational and career goals. NOTE: Groups A-D equals a total of 25 semester hours. An additional course from one of these areas, or from the "Other Psychology Courses", must be taken to complete 27 upper division semester hours of Breadth Courses.

Group A - Lifespan Development*	***6 SH***
PY 459--Developmental Psychology: Child	3 SH
PY 460--Developmental Psychology: Adolescence	3 SH
PY 461--Developmental Psychology: Adulthood and Aging	3 SH

Group B - Cognitive/Biological Processes*	***7+ SH***
PY 442--Learning and Memory	3 SH
and	
PY 443--Learning and Memory Laboratory	1 SH
PY 454--Cognitive Psychology	3 SH
PY 482--Sensation and Perception	3 SH
PY 485--Functional Neurophysiology and Neuroanatomy	3 SH
and	
PY 486--Neurophysiology and Neuroanatomy Laboratory	1 SH
PY 487--Neuropsychology	3 SH
and	
PY 488--Neuropsychology Laboratory	1 SH

* One course from Group B must have a laboratory co-requisite.

Group C - Individual Differences/Social Processes	***6+ SH***
PY 441--Social Psychology	3 SH
PY 452--Psychological Testing and Assessment	3 SH
PY 470--Psychology of Personality	3 SH
PY 471--Abnormal Psychology	3 SH

Group D - Applied Psychology	***6+ SH***
PY 410--Neurological Disorders	3 SH
PY 418--Industrial and Organizational Psychology	3 SH
PY 445--Small Group Communication	3 SH
PY 450--Psychology of Women	3 SH
PY 453--Clinical and Counseling Psychology	3 SH
PY 462--Behavioral and Stress Management	3 SH
PY 465--Cross Cultural Psychology	3 SH
PY 466--Psychopharmacology	3 SH
PY 467--Human Sexuality	3 SH
PY 484--Forensic Psychology	3 SH

Other Psychology Courses	***0-3 SH***
PY 401--Advanced Neuroscience Methods	1 SH
PY 490E-W--Independent Study in Psychology *	1-3 SH
PY 491E-W--Research in Psychology *	1-3 SH
PY 496E-W--Special Topics in Psychology	3 SH
PY 498E-W--Internship in Psychology	3 SH

* No more than 3 SH of PY 490E-W or PY 491E-W can count towards the completion of the major.

Honors-in-Psychology Major 49-50 SH

In addition to the major requirements listed previously, students who complete the following requirements may graduate with a Honors-in-Psychology major:

PY 499--Senior Thesis	2 SH
PY 491E-W--Research in Psychology	1-3 SH

1. Maintenance of an overall grade point average 3.000 and a grade point average of 3.250 in psychology.
2. Completion of three semester hours of PY 491E-W--Research in Psychology. A research project must be proposed to and approved by a faculty committee in preparation for PY 499--Senior Thesis.
3. Completion of PY 499--Senior Thesis. This represents completion of the research project proposed in PY 491E-W--Research in Psychology. The Thesis must conform to APA guidelines and be approved by the faculty thesis committee.
4. An oral defense of the thesis before a panel of faculty including the faculty committee.
5. Presentation of the research to a public forum such as a lecture or professional meeting.

Psychology Minor 15 SH

Prerequisite

PY 250/250C/250H--General Psychology	3 SH
Upper Division Requirements	*12 SH*

Twelve upper division semester hours of Psychology courses selected with the approval of the major advisor.

PSYCHOLOGY COURSE DESCRIPTIONS (PY)

PY 250/PY 250C/PY 250H. GENERAL PSYCHOLOGY (3). Introduces the science of behavior and mental processes through a systematic study of representative areas of psychology. NOTE: PY 250C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

PY 358 LIFESPAN HUMAN DEVELOPMENT (3). Studies biological, psychological and social factors in human development from conception to later adulthood. Prerequisite(s): PY 250. NOTE: Recommended for Nursing majors. Does not meet Psychology major Group A requirements.

PY 401. ADVANCED NEUROSCIENCE METHODS (1). Emphasizes current neuroscience laboratory research techniques including cellular and molecular techniques, drug effects, brain lesions, histology, microscopy, and behavioral tests for assessing brain-behavior functions in non-human nervous systems. Prerequisite(s): NS 260 or permission of instructor. Cross listing: NS 401.

PY 410. NEUROLOGICAL DISORDERS (3). Applies a biopsychosocial approach to understanding brain-behavior relationships through the study of diseases of the nervous system. Prerequisite(s): NS 260, BL 260, and BL 262. Cross listing: NS 410. NOTE: A background in neuroscience or psychology, while helpful, is not essential for this course.

PY 418. INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY (3). Studies principles of psychology as applied to selected problems in the area of business and industry. Prerequisite(s): PY 250.

PY 419. RESEARCH METHODS (3). Considers methods and procedures of modern experimental psychology. Co-requisite: PY 420. Prerequisite(s): PY 250 and MT 272.

PY 420. RESEARCH METHODS LABORATORY (1). Provides an opportunity for completion of individual projects related to appropriate experimental and statistical design. Co-requisite: PY 419. NOTE: One three-hour laboratory each week required.

PY 441. SOCIAL PSYCHOLOGY (3). Studies social behavior including the social self; attribution theory; attitude formation and change; attraction, love and intimacy; aggression and altruism; and conformity and obedience. Prerequisite(s): PY 250.

PY 442. LEARNING AND MEMORY (3). Introduces basic concepts, methods and results of experimental analysis of learning and memory in humans and nonhuman animals. Includes classical and operant conditioning, discrimination learning processes underlying encoding, storage, and retrieval of information in memory, and other cognitive processes. Co-Requisite(s): PY 443. Prerequisite(s): PY 250.

PY 443. LEARNING AND MEMORY LABORATORY (1). Involves laboratory experiments with animal and human subjects and the preparation of reports on these experiments. Co-requisite(s): PY 442.

PY 445. SMALL GROUP COMMUNICATION (3). Provides a comprehensive overview of psychological group theories and empirical findings, emphasizing the principles of group dynamics. Includes group projects and classroom simulations. Prerequisite(s): COM 380 or PY 250. Cross listing: COM 414.

PY 450. PSYCHOLOGY OF WOMEN (3). Introduces issues surrounding the psychology of women. The major domains of psychology used to address topics about women's behavioral and mental processes and how they are formed and altered by a woman's physical state, mental state, and external environment. Prerequisite(s): PY 250 or WGS 400. Cross listing: WGS 450.

PY 452. PSYCHOLOGICAL TESTING AND ASSESSMENT (3). Introduces psychological and educational concepts in testing. Includes reliability, validity, standardization, and administration. Emphasizes appropriate selection, use, and interpretation of tests. Prerequisite(s): PY 250. NOTE: MT 270 or MT 272 recommended, but not required.

PY 453. CLINICAL AND COUNSELING PSYCHOLOGY (3). Considers theory and application of basic therapeutic techniques to bring about behavioral change. Covers selected theoretical viewpoints and techniques. Prerequisite(s): PY 250.

PY 454. COGNITIVE PSYCHOLOGY (3). Focuses on psychological processes such as attention, memory, concept formation, problem solving, and language. Examines current research data, theories, and applications. Prerequisite(s): PY 250.

PY 459. DEVELOPMENTAL PSYCHOLOGY: CHILD (3). Studies biological, psychological, and social factors in human development from conception to puberty. Prerequisite(s): PY 250.

PY 460. DEVELOPMENTAL PSYCHOLOGY: ADOLESCENCE (3). Studies biological, psychological, and social factors in human development during adolescence and young adulthood. Prerequisite(s): PY 250.

PY 461. DEVELOPMENTAL PSYCHOLOGY: ADULTHOOD AND AGING (3). Studies biological, psychological, and social factors in human development during adulthood and later years. Prerequisite(s): PY 250.

PY 462. BEHAVIORAL AND STRESS MANAGEMENT (3). Examines current techniques in the treatment of behavioral and physiological problems. Includes stress management, relaxation therapy, biofeedback, desensitization, assertiveness training, cognitive therapies, modeling and other behavioral management techniques. Prerequisite(s): PY 250.

PY 465. CROSS CULTURAL PSYCHOLOGY (3). Emphasizes psychological research and theory used to understand difference and similarities in human behavior and mental processing across cultures and between groups. Topics may include: motivation, emotion, cognition, communication, acculturation, self-identity, social and moral development. Prerequisite(s): PY 250.

PY 466. PSYCHOPHARMACOLOGY (3). Examines relationships between brain functions and major psychoactive drugs, including drugs used to treat psychological and neurological disorders. Includes an analysis of the cellular and physiological effects of each drug on neuronal functioning as well as psychological functioning. Prerequisite(s): NS 260 and BL 261 and BL 262 or permission of instructor required. Cross listing: NS 466.

PY 467. HUMAN SEXUALITY (3). Focuses on the physiological, behavioral, cognitive, and social aspects of human behavior as related to human sexuality using a multidisciplinary and life-span approach. Topics include physiology, communication, gender, development, orientation, violence, the marketplace, culture, religion, and health. Prerequisite(s): PY 250 or WGS 400. Cross listing: WGS 467.

PY 470. PSYCHOLOGY OF PERSONALITY (3). Studies theories of development and organization of personality including representative examples of classical and modern theories. Prerequisite(s): PY 250.

PY 471. ABNORMAL PSYCHOLOGY (3). Uses the biopsychosoical model as the basis for explaining the cause, understanding, and treatment of mental disorders. Emphasizes common disorders encountered in clinical practice and specific criterion necessary for making a diagnosis. Prerequisite(s): PY 250.

PY 482. SENSATION AND PERCEPTION (3). Introduces the physiological and psychological processes underlying basic sensory and perceptual experience. Emphasizes psychophysical relationships established for the different sense modalities and theoretical interpretations of the sensory data. Prerequisite(s): PY 250. Cross listing: NS 482.

PY 484. FORENSIC PSYCHOLOGY (3). Provides a critical analysis of the law, focusing on the criminal justice system in our society. Emphasizes the psychological, social, and cultural factors that influence the criminal justice system, and the use of behavioral science techniques. Prerequisite(s): PY 250 or SO 200. Cross listing: CR 415.

PY 485. FUNCTIONAL NEUROPHYSIOLOGY AND NEUROANATOMY (3). Explores the functional significance of neural physiology and connectivity, including effects related to neural development, how nerve cells communicate with one another, how patterns of neural interconnections give rise to different perceptual, cognitive, and motor responses, and how neural communication is modified by experience. Co-requisite: PY 486. Prerequisite(s): NS 260 and BL 260 and BL 262, or permission of instructor. Cross listing: NS 485 and BL 485.

PY 486. NEUROPHYSIOLOGY AND NEUROANATOMY LABORATORY (1). Involves laboratory experiments and computer simulations of neural functions as well as gross dissection, and histological study of Neuroanatomy. Co-requisite: PY 485. Cross listing: NS 486 and BL 486. NOTE: One three-hour laboratory per week.

PY 487. NEUROPSYCHOLOGY (3). Studies the physiological and neuropsychological correlates of behavior. These include but are not limited to neural systems regulating motivation, emotion, learning, and the neuropsychological bases of cognitive processes. Physiological and psychological responses to brain injury are also examined. Co-requisite: PY 488. Prerequisite(s): NS 260. Cross listing: NS 487.

PY 488. NEUROPSYCHOLOGY LABORATORY (1). Emphasizes current research techniques and neuropsychological methods for assessing cognitive functions in humans, with an emphasis on assessment of the neurobehavioral impact of cerebral lesions. Co-requisite: PY 487. Cross listing: NS 488.

PY 490E-W. INDEPENDENT STUDY IN PSYCHOLOGY (1-3). Offers an opportunity for advanced study in psychology under the direction of a department faculty member. Prerequisite(s): PY 250, permission of instructor, Junior standing, and approval of department chair required.

PY 491E-W. RESEARCH IN PSYCHOLOGY (1-3). Offers an opportunity for collaborative research in psychology under faculty direction. Requires oral or poster presentation. Prerequisite(s): PY 250. Approval of department chair required.

PY 493. SENIOR CAPSTONE (2). Provides the culminating experience of the major, focusing on integration and application of theory. Must be completed as graded coursework at Regis University. Prerequisite(s): PY 250, Majors only and Senior standing.

PY 496E-W. SPECIAL TOPICS IN PSYCHOLOGY (3). Studies selected topics in psychology through lecture presentation and research projects. Prerequisite(s): PY 250.

PY 498E-W. INTERNSHIP IN PSYCHOLOGY (3). Involves placement in a clinical or research agency for advanced psychology students. Prerequisite(s): Approval of department chair and director of the Academic Internship Program.

PY 499. SENIOR THESIS (2). Students meet with the thesis advisor to prepare for the defense of the research before a panel of faculty, to present the research in a public forum, and to submit a final thesis that conforms to APA guidelines and is approved by the faculty examination committee. Prerequisite(s): PY 491E-W and approval of department chair required.

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RELIGIOUS STUDIES

Dr. Thomas Leininger, Associate Professor, Chairperson

Dr. Randolph Lumpp, Professor

Dr. Kari Kloos, Associate Professor

Dr.. Julia Brumbaugh, Assistant Professor

Dr. J. Thomas Howe, Assistant Professor

DEPARTMENTAL REGULATIONS

- The Religious Studies Core requirement of six semester hours can be met with RT 201– Religion and the Human Quest and with another course designated by the subject RT, 300 level.
- RT 201--Religion and the Human Quest is the prerequisite for all other courses in Religious Studies. The second Core course requirement may be satisfied by any RT 300 level course.
- Any student seeking to utilize 12 or more semester hours of Religious Studies as part of any program at Regis is well advised to consult with the Religious Studies Department to facilitate the optimum selection of courses.
- Transfer students majoring in Religious Studies must take a minimum of 12 semester hours of upper division Religious Studies courses through Regis College. The Department evaluates previous work completed by each transfer student to determine whether additional coursework beyond the 12 semester hours is necessary.
- RT 499A and RT 499B (Senior Project A/B) are required of all majors.
- To graduate with a Religious Studies major, a grade of "C" (2.000) or better is required for all courses in the major.

Religious Studies Major	**33 SH**
Lower Division Requirements	*9 SH*
RT 201/RT 201C-- Religion and the Human Quest	3 SH
RT 300-level Electives	6 SH
Upper Division Requirements	*24 SH*
Twenty-four upper division semester hours of Religious Studies courses (RT), which must include the following:	
RT 426--Classics of Christian Thought	3 SH
RT 499A--Senior Project A and RT 499B--Senior Project B	1 SH 2 SH
Six 400-level RT courses [minimum of one course (3 SH) in non-Christian religion or an interdisciplinary approach to the study of religion]	18 SH

Religious Studies Minor	**18 SH**
Recommended courses for Core Studies requirement include the following:	
RT 201/RT 201C– Religion and the Human Quest	3 SH
RT 300 level course	3 SH
Upper Division Requirements	*12 SH*
Twelve upper division semester hours of Religious Studies courses selected with the approval of the major advisor.	

Christian Leadership Minor **12 SH**

Students may take a Christian Leadership minor through the Department of Religious Studies. It involves 12 upper division semester hours selected with the approval of the student's minor advisor who is appointed by the Chair of the Department of Religious Studies. The minor typically involves practical experience in Christian Leadership (e.g., an internship, work with University Ministry, residence at Romero House). Interested students should contact the Chair of the Religious Studies Department.

RELIGION AND THEOLOGY COURSE DESCRIPTIONS

RT 201/RT 201C. RELIGION AND THE HUMAN QUEST (3). Considering human existence in relation to "the sacred" and drawing on Eastern and Western religious traditions, this course explores religious perspectives on human question about life, suffering, goodness, and ultimacy. NOTE: RT 201C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

RT 201H. HONORS RELIGION AND THE HUMAN QUEST (3). Cultivates curiosity about what it means to be human in the fact of the sacred, the ultimate, the mystery of existence, and how different people historically have understood this. Develops and enhances ability to evaluate critically various approaches to existential and social questions about meaning, suffering, goodness, and ultimacy. NOTE: Honors students only.

RT 301. IN THE BEGINNING: BIBLE AND BELIEF (3). Introduces the study of the Old and New Testaments. Examines the historical background of the texts and what its authors have to say to people today on important religious questions, such as the nature of God, human beings, and the world in which we live, and what it means to live a whole, purposeful life. Prerequisite(s): RT 201/RT 201C.

RT 302. FAITH AND JUSTICE IN WORLD CHRISTIANITY (3). Examines how the enculturation of Christianity in different times and places produces distinctive beliefs about Jesus and engages the pursuit of justice in the context of religious and cultural injustice. Prerequisite(s): RT 201/RT 201C.

RT 303. MYSTICS, SAINTS AND RADICALS (3). Explores questions about God, and such topics as suffering, justice, and salvation through the lenses of various traditions of spiritual discipline using examples from ancient to modern spiritual writers. Prerequisite(s): RT 201/RT 201C.

RT 304. CATHOLIC MORAL TRADITION (3). Addresses questions about the human person, happiness, and the good life by employing the concept of virtue and a picture of human fulfillment in terms of virtues. Focuses on how Christian faith transforms the virtues and how the virtues can serve as a bridge between Jesus and contemporary Christians. Prerequisite(s): RT 201/RT 201C.

RT 305. BELIEF AND UNBELIEF (3). Explores questions of belief and doubt from Christian and secular perspectives, for example, regarding science, philosophy, and the experience of suffering. Prerequisite(s): RT 201/RT 201C.

RT 306. JESUIT SPIRITUALITY (3). Study of the spirituality of Saint Ignatius Loyola (founder of the Jesuits) and its relevance for contemporary spirituality. Topics include prayer, discernment, meaning and vocation. Prerequisite(s): RT 201/RT 201C.

RT 308. CATHOLIC CHRISTIANITY (3). An interdisciplinary investigation of the foundational sources of Catholic Christianity emphasizing historical development of the tradition and academic approaches to expressions of that development such as biblical literature, sacramental and liturgical practice, official church teachings (especially Vatican Council II), and Christian mission in the modern world. Prerequisite(s): RT 201/RT 201C. Cross Listing: CAS 308.

RT 309. WESTERN SPIRITUAL PATHS (3). Investigates some of the traditions, practices and ways of life that shape spiritual paths in Christianity, Judaism and Islam in the west. Areas of study will include monasticism, pilgrimage, law and mysticism. Prerequisite(s): RT 201.

RT 310. SCIENCE AND RELIGION (3). An investigation into the relationship between science and religion including its history as well as its different possibilities, e.g., conflict, independence and dialog. Considers the implications of science for religious values and vice versa. Prerequisite(s): RT 201/RT 201C.

RT 311. PSYCHOLOGY AND RELIGION (3). Explores the relationships between psychology and religion with a particular emphasis on the psychological study of Christian traditions, beliefs and experiences. Prerequisite(s): RT 201/RT 201C.

RT 312. RELIGION IN POST MODERN AGE (3). Explores the collapse of the Modern age, the emergence of Postmodernism and the impact of these developments on religion in general and Christianity in particular. Prerequisite(s): RT 201/RT 201C.

RT 400E-W. RELIGION AND DIVERSITY (3). Explores the connections between religion and diversity, integrating different perspectives and/or disciplinary approaches. Prerequisite(s): RT 201/RT 201C or RS 200 and any 300-level religious studies course.

RT 401E-W. RELIGION AND THE ENVIRONMENT (3). Explores the connections between religion and the environment, integrating different perspectives and/or disciplinary approaches. Prerequisite(s): RT 201/RT 201C or RS 200 and any 300-level religious studies course.

RT 402E-W. RELIGION AND JUSTICE (3). Explores the connections between religion and justice, integrating different perspectives and/or disciplinary approaches. Prerequisite(s): RT 201/RT 201C or RS 200 and any 300-level religious studies course.

RT 403E-W. RELIGION AND MEANING (3). Explores the connections between religion and meaning, integrating different perspectives and/or disciplinary approaches. Prerequisite(s): RT 201/RT 201C or RS 200 and any 300-level religious studies course.

RT 410E-W. TOPICS IN BIBLICAL STUDIES (3). Investigates key themes in the Bible, using methods and resources of modern biblical scholarship. May focus on particular books or themes, as well as historical, social, theological, literary, cultural, and postcolonial approaches. Prerequisite(s): RT 201 and any 300-level religious studies course.

RT 412. GOSPELS (3). Investigates the four canonical gospels, as well as touching on some important non-canonical gospels. Prerequisite(s): RT 201 and any RT 300 level class.

RT 411H. HONORS RELIGIOUS STUDIES (3). Explores themes central to the study of religion, such as, classics of Christian thought, major thinkers, topics in Christianity, including church history, ethics, or spirituality; topics from Old and New Testament studies; intersections between various traditions, as well as between Religious Studies and other disciplines. Prerequisite(s): RT 201H or permission of instructor. NOTE: Honors students only.

RT 420E-W. TOPICS IN THEOLOGY (3). Explores central theological issues in Christianity in historical and contemporary contexts. Topics may include God, Christology, ecclesiology, sacramental theology, religious dialog, ecumenism, theological anthropology, and revelation. Prerequisite(s): RT 201 and any 300-level religious studies course.

RT 426. CLASSICS OF CHRISTIAN THOUGHT (3). Explores significant contributors to Catholic intellectual tradition as well as of the basic issues that have determined that tradition: the role of faith and reason, the place of culture in Christian evangelization, spirituality and autobiography. Emphasizes the study of primary texts. Prerequisite(s): RT 201 and any 300-level religious studies course. Cross listing: CAS 400E.

RT 430E-W. TOPICS IN HISTORY OF CHRISTIANITY (3). Explores selected topics in the history of Christianity, examining historical, social, cultural, and theological influences and developments. May include early Christianity, medieval, Renaissance and Reformation, modern, colonial, and postcolonial eras. Prerequisite(s): RT 201 and any RT 300 level course.

RT 440E-W. TOPICS IN ETHICS AND MORAL THEOLOGY (3). Examines issues in method and/or particular topics of contemporary concern, such as method in Protestant and Catholic moral thought, interreligious ethics, feminist ethics, medical ethics, economic justice, and war and peace. Prerequisite(s): RT 201 and any RT 300 level course.

RT 450. CONFUCIANISM AND TAOISM (3). Exploration of specific world religions, including traditions, scriptures, key historic figures, and contemporary issues. May cover Hinduism, Buddhism, Confucianism, Taoism, Islam, or Judaism in more depth. Prerequisite(s): RT 201/RT 201C and any 300-level religious studies course. Cross listing: PL 435F.

RT 460E-W. TOPICS IN PHILOSOPHY OF RELIGION (3). Examines significant philosophical issues within the context of religion, including the relationship between faith and reason, the problem of evil, the existence and nature of God, life after death, and, among others, religious language. Prerequisite(s): RT 201 and any RT 300 level course.

RT 461. MEDIA AND THE WORD (3). A multidimensional exploration of the cultural and religious dimensions of communications media (oral, written, electronic) based on the tradition of analysis of Catholic Media scholars H. Marshall McLuhan and Walter J. Ong, S.J. Prerequisite(s): RT 201, COM 380, or any religious studies 300 level elective. Cross listing: CAS 420E AND COM 481.

RT 465E-W. TOPICS IN RELIGION AND CULTURE (3). Investigates the dynamic relationship between human culture and religion. Topics can include death and dying, love, art, literature, violence, politics, technology, and economics. Prerequisite(s): RT 201 and any RT 300 level course.

RT 470E-W. TOPICS IN SPIRITUALITY (3). Investigates the dimensions of Christian spiritualties from historical and contemporary perspectives and challenges. Areas include spiritual leaders and saints, including Ignatius of Loyola, prayer, mysticism, social justice, and community life in Christian tradition. Prerequisite(s): RT 201 or any religious studies 300 level course.

RT 480E-W. TOPICS IN CHRISTIAN LIFE AND LEADERSHIP (3). Explores topics in Christian life and leadership including church life, lay ministry, vocations and community leadership. Addresses these topics from the standpoints of history, theology, spirituality, liturgical studies, practical theology and/or ministry studies. Prerequisite(s): RT 201/RT 201C or RS 200 and any 300-level religious studies course.

RT 481. LAY MINISTRY PRACTICUM (1-3). Practice of and critical reflection upon aspects of lay ministry, such as leading communal prayer, scripture study, liturgical ministry, catechesis, youth ministry, campus ministry, social justice work, or parish leadership. Prerequisite(s): RT 201 or any religious studies 300 level course.

RT 490E-W. INDEPENDENT STUDY IN RELIGIOUS STUDIES (1-3). Provides focused research on a topic in religious studies not covered in regular course offerings. Note: Specific assignments and meeting times are arranged with the instructor. Prerequisite(s): RT 201 and any 300-level religious studies course. NOTE: Requires approval of department chair.

RT 491E-W. DIRECTED RESEARCH IN RELIGIOUS STUDIES (1-3). Provides individualized scholarly research in a topic in religious studies. Prerequisite(s): RT 201 and any 300-level religious studies course.

RT 498E-W. INTERNSHIP IN RELIGIOUS STUDIES (3). Offers interested students an opportunity to explore religious studies in its practical application to various working areas or contemporary life and to reflect critically and constructively on their experience. Prerequisite(s): RT 201 and any 300-level religious studies course.

RT 499A. SENIOR PROJECT A (1). Student seeks out a supervisor trained in the proposed area of research and approved by the department chair, as well as two outside readers. Student works with the supervisor to develop a project proposal, an annotated bibliography, or list of resources crucial to the project, and a short paper on a central theme of the research. Prerequisite(s): RT 201 and any RT 300 level course. Majors only. Approval of department chair required. NOTE: First part of a two-semester research project required for all religious studies majors.

RT 499B. SENIOR PROJECT B (2). Continuation of RT 499A. Requires completion of the research project designed in RT 499A and a public presentation of research results. Prerequisite(s): RT 201 and any RT 300 level course. Majors only. Approval of department chair required. NOTE: Second part of a two-semester research project required for all religious studies majors.

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RESERVE OFFICER TRAINING CORPS (ROTC)

Dr. Thomas Bowie, Program Coordinator

Enrollment in Reserve Officer Training Corps (ROTC) provides undergraduates and selected graduate students an opportunity to combine academic study with a military officer's professional educational program. The Air Force, Army, and Navy conduct courses in their respective areas leading to a regular or reserve commission upon graduation. The Navy also offers a program leading to a regular commission in the Marine Corps. All programs are open to both men and women. ROTC programs are offered in a cross-town agreement with the program at the University of Colorado-Boulder, although courses are sometimes available at Colorado School of Mines or at the Auraria Campus.

ROTC COURSE DESCRIPTIONS

AIR FORCE AEROSPACE STUDIES (AIRR)

Air Force ROTC offers several programs leading to a commission in the U.S. Air Force upon receipt of at least a baccalaureate degree. Students attend classes at either University of Colorado-Boulder or the Colorado School of Mines in Golden.

AIRR 1010. FOUNDATIONS OF THE USAF 1 (1). Introduces students to the U.S. Air Force and the USAF officer profession. Uses instructor lectures, films and videos, and group activities to examine Air Force issues, officership qualities, and military customs and courtesies. Emphasizes the communication skills necessary for an Air Force officer. NOTE: One 1-hour lecture and one 2-hour lab per week.

AIRR 1020. FOUNDATIONS OF THE USAF 2 (1). A continuation of AIRR 1010. NOTE: One 1-hour lecture and one 2-hour lab per week.

AIRR 2010. EVOLUTION OF USAF AIR AND SPACE POWER 1 (1). Studies air power from balloons and dirigibles through the jet age and historically reviews air power employment in military and nonmilitary operations in support of national objectives. Looks at the evolution of air power concepts and doctrine and introduces the development of communicative skills. NOTE: One 1-hour lecture and one 2-hour lab per week.

AIRR 2020. EVOLUTION OF USAF AIR AND SPACE POWER 2 (1). A continuation of AIRR 2010. NOTE: One 1-hour lecture and one 2-hour lab per week.

AIRR 3010. AIR FORCE LEADERSHIP STUDIES 1 (3). Provides an integrated management course emphasizing concepts and skills required by the successful manager and leader. Includes individual motivational and behavioral processes, leadership, communication, and group dynamics while providing foundation for the development of the junior officer's professional skills (officership). Emphasizes decision-making and use of analytic aids in planning, organizing, and controlling in a changing environment. Discusses organizational and personal values (ethics), management of change, organizational power, politics, managerial strategy, and tactics within the context of military organization. Uses actual Air Force case studies throughout the course to enhance the learning and communication process. NOTE: Two 1½-hour seminars plus one 2-hour lab per week.

AIRR 3020. AIR FORCE LEADERSHIP STUDIES 2 (3). A continuation of AIRR 3010. Emphasizes basic managerial processes while employing group discussions, case studies, and role-playing as learning devices. Continues to emphasize the development of communicative skills. NOTE: Two 1½-hour seminars plus one 2-hour lab per week.

AIRR 4010. NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY 1 (3). Studies U.S. national security policy, which examines the formulation, organization, and implementation of national security policy; context of national security; evolution of strategy; management of conflict; and civil-military interaction. Also includes blocks of instruction on the military profession/officership, the military justice system, and communicative skills. Provides future Air Force officers with the background of U.S. national security policy so they can effectively function in today's Air Force. NOTE: Two 1½-hour seminars plus one 2-hour lab per week.

AIRR 4020. NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY 2 (3). A continuation of AIRR 4010. Includes defense strategy conflict management, formulation/implementation of U.S. defense policy, and organization factors and case studies in policy making, military law, uniform code of military justice, and communication skills. NOTE: Two 1½-hour seminars plus one 2-hour lab per week.

MILITARY SCIENCE--U.S. ARMY (MILR)

The Military Science Program at Regis University is offered in conjunction with the University of Colorado-Boulder. The Department of Military Science offers programs leading to an officer's commission in the active Army, Army Reserve, or National Guard in conjunction with an undergraduate or graduate degree. Military Science courses are designed to supplement a regular degree program by offering practical leadership and management experience. Students attend classes at either University of Colorado-Boulder or the Colorado School of Mines in Golden.

MILR 1011. ADVENTURES IN LEADERSHIP 1 (2). Introduces fundamentals of leadership and the United States Army. Examines its organization, customs, and history as well as its current relevance and purpose. Students also investigate basic leadership and management skills necessary to be successful in both military and civilian settings. Includes fundamentals of Army leadership doctrine, team-building concepts, time and stress management, an introduction to cartography and land navigation, marksmanship, briefing techniques, and some basic military tactics. Lab fee required.

MILR 1021. ADVENTURES IN LEADERSHIP 2 (2). Continues investigation of leadership in small organizations. Covers selected topics such as basic troop leading procedures, military first aid, and casualty concepts, creating ethical work climates, an introduction to Army organizations and installations, and a further examination of basic military tactics. Introduces students to effective military styles. Lab fee required.

MILR 2031. METHODS OF LEADERSHIP AND MANAGEMENT 1 (3). Comprehensively reviews advanced leadership and management concepts including, motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self-development. Students continue to refine effective written and oral communications skills and to explore topics such as the basic branches of the Army, and officer and NCO duties. Students conduct classroom and practical exercises in small unit light infantry tactics and are prepared to perform as midlevel leaders in the cadet organization. Lab fee required.

MILR 2041. METHODS OF LEADERSHIP AND MANAGEMENT 2 (3). Focuses on leadership and management functions in military and corporate environments. Studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management, and planning theory, the be-know-do framework, and the Army leadership evaluation program. Continues to refine communication skills. Lab fee required.

MILR 3052. MILITARY OPERATIONS AND TRAINING 1 (3). Further explores the theory of managing and leading small military units with an emphasis on practical applications at the squad and platoon levels. Students examine various leadership styles and techniques as they relate to advanced small unit tactics. Familiarizes students with a variety of topics such as cartography, land navigation, field craft, and weapons systems. Involves multiple, evaluated leadership opportunities in field settings and hands-on experience with actual military equipment. Students are given maximum leadership opportunities in weekly labs. Prerequisite(s): Approval of the Professor of Military Science. Lab fee required.

MILR 3062. MILITARY OPERATIONS AND TRAINING 2 (3). Studies theoretical and practical applications of small unit leadership principles. Focuses on managing personnel and resources, the military decision making process, the operations order, and oral communications. Exposes the student to tactical unit leadership in a variety of environments with a focus on preparation for the summer advance camp experience. Prerequisite(s): Approval of the Professor of Military Science. Lab fee required.

MILR 4072. OFFICER LEADERSHIP AND DEVELOPMENT 1 (3). Examines management and leadership concepts and techniques associated with planning and executing military training and operations at company and higher echelons. Includes analyses of professional ethics and values, effective training principles and procedures, subordinate counseling, and effective staff officer briefing techniques. Also investigates other subjects such as counter terrorism, modern peacekeeping missions, and the impact of the information revolution on the art of land warfare. Conducted both in and out of classroom setting and with multiple practical leadership opportunities to organize cadet training and activities. Prerequisite(s): Approval of the Professor of Military Science. Lab fee required.

MILR 4082. OFFICER LEADERSHIP AND DEVELOPMENT 2 (3). Continues MILR 4072 study of management and leadership concepts and techniques, providing practical leadership experiences in the classroom and during multiple cadet-run activities. Also examines varied topics such as theory and practice of the military justice system, law of war, military-media relations, support mechanisms for soldiers and their families, operational security considerations, and historical case studies in military leadership in the context of 21st century land warfare. Prerequisite(s): Approval of the Professor of Military Science. Lab fee required.

NAVAL SCIENCE–U.S. NAVY (NAVR)

NAVR 1010. INTRODUCTION TO NAVAL SCIENCE (2). Introduces the structure, missions, and functions of the United States Navy and Marine Corps. Also covers military law, leadership, naval history, and concepts of sea power.

NAVR 2020. SEAPOWER AND MARITIME AFFAIRS (3). Studies the importance of seapower in history including naval, maritime, and other commercial uses of the sea. Emphasizes significant milestones in the history of the U.S. Navy and Marine Corps and their role in the national strategies and policies of the United States.

NAVR 4010. LEADERSHIP AND MANAGEMENT 1 (3). Comprehensively studies organization leadership. Emphasizes motivation, communication, empowerment, and needs of subordinates. Studies the role of professional and personal ethics in organizational leadership.

NAVR 4020. LEADERSHIP AND ETHICS (3). Studies the ethics and laws of armed conflict, analyzing the leadership responsibilities of officers in conflict. Studies the military justice system and Naval legal administrative procedures, comparing military law with civilian criminal and civil law. Defines the responsibilities of junior officers with the military justice system.

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SOCIOLOGY

Dr. Lisa Garza, Associate Professor, Chairperson

Dr. Gilbert Gardner, Associate Professor

Dr. Eve Passerini, Associate Professor

Dr. Damla Isik, Assistant Professor

Dr. Damien Thompson, Assistant Professor

Dr. Doreen Watson, Assistant Professor

Mr. James Bullington, Lecturer

Sociology Major	**36 SH**
Lower Division Requirements	*9 SH*
SO 200/200C--Introduction to Sociology	3 SH
SO 204--Introduction to Cultural Anthropology	3 SH
SO 300--Writing as a Anthropologist/Sociologist	3 SH
Upper Division Requirements	*27 SH*
Twenty-seven upper division semester hours of Sociology courses, which must include:	
SO 403--Sociology Theory	3 SH
SO 404--Methods of Social Research	3 SH
SO 405--Stories with Numbers: Quantitative Analysis	3 SH
SO 499--Majors Seminar	3 SH
Upper Division Sociology Electives	15 SH

Sociology Minor	**15 SH**
Lower Division Requirements	*3 SH*
SO 200--Introduction to Sociology	3 SH
Upper Division Requirements	*12 SH*
Twelve upper division semester hours of Sociology courses selected with the approval of the major advisor.	

SOCIOLOGY COURSE DESCRIPTIONS (SO)

SO 200/SO 200C. INTRODUCTION TO SOCIOLOGY (3). Studies sociological perspectives, focusing on social groups and social interaction. Presents basic sociological terms and concepts, and examines a variety of social institutions and social processes. NOTE: SO 200C is a course that carries a communication focus in the course assignments, and enrollment is limited to student who took the paired/linked RCC 200 course in the fall.

SO 203. SOCIAL PROBLEMS (3). Surveys selected social problems from a national and international scope. Includes analysis of possible causes and consequences of these problems and of various proposals for solutions and reforms.

SO 204. INTRODUCTION TO CULTURAL ANTHROPOLOGY (3). Introduces the methods and theory of cultural anthropology through a theoretical and comparative examination of the role of culture in human life. Includes the study of other cultures and field research on contemporary United States culture. Cross listing: AN 204.

SO 300. WRITING AS AN ANTHROPOLOGIST/SOCIOLOGIST (3). Learn to effectively use Anthropology/Sociology research databases and practice writing a variety of Anthropology/Sociology papers. Significant time is given to work-shopping, peer-reviewing, and revising/submitting original writing. Pre-requisite(s): One 200-level Sociology or Anthropology course or permission of instructor.

SO 403. SOCIOLOGICAL THEORY (3). Surveys major analytic models used in sociology. Reviews classical foundations of social thought, including the works of Marx, Durkheim and Weber, and contemporary schools of thought, such as feminist and neo-Marxian theory. Prerequisite(s): One 200-level Sociology or Anthropology course.

SO 404. METHODS OF SOCIAL RESEARCH (3). Practical introduction to social science research methods including survey research, content analysis, participant observation, and field research. Builds critical thinking skills for comparing and evaluating popular and academic reports/claims, focusing on social problems and social justice. Research design, data analysis of both qualitative and quantitative data, library research, and writing skills are taught through hands-on experiences. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: PJ 408 and AN 404. NOTE: This is a writing intensive course.

SO 405. STORIES WITH NUMBERS: QUANTITATIVE ANALYSIS (3). Develop curiosity and literacy for basic statistical tools of data analysis – from foundations of univariate and inferential statistics to simple regression. Students develop the ability to use critical thinking and computer programs to accurately assess the meaning and validity of their own data as well as the reported results of others. Prerequisite(s): AN 404 or PJ 408 or SO 404.

SO 406. HISTORY OF ANTHROPOLOGICAL THEORY (3). Reviews the development of the central ideas that have shaped the emergence of anthropology as a science. The approach is critical and objective, with an emphasis on the evolution of the scope and limitations of modern theory. Prerequisite(s): SO 204 or AN 204, or permission of instructor. Cross listing: AN 406.

SO 407. PUBLIC ANTHROPOLOGY (3). Discusses anthropology's insights on culture and research techniques as means to analyze social, political, and economic problems and develop solutions. Focuses on the ways in which applied anthropology can analyze, inform, and influence policy in the United States and abroad, demonstrating anthropology's mainstream relevance. Prerequisite(s): SO 200 and SO 204 or AN 204, or permission of instructor. Cross listing: AN 407.

SO 411. FOOD, GENDER, AND CULTURE (3). Explores ways in which preparing, eating, and thinking about food reflects culturally determined gender and power relations in societies around the world. Prerequisite(s): One 200-level Sociology or Anthropology course, or any Women's and Gender Studies course.. Cross listing: AN 411 and WGS 411.

SO 412. FOOD JUSTICE (3). Explores our relationship with food through analysis of power, privilege, and culture. Learn ways to change the alienation, structural violence, and injustice experienced within dominant systems of food production and consumption. Prerequisite(s): SO 200, SO 204, or AN 204. Cross listing: AN 412 and PJ 426.

SO 416. DEVIANCE (3). Provides a historical and comparative study of social deviance, including definitions of and reactions to deviance, and deviance as collective behavior. Examines various sociological theories of deviance, and social groups and behaviors defined as deviant in the United States and other countries. Prerequisite(s): SO 200 or permission of instructor. Cross listing: CR 416.

SO 419E-W. CULTURE AND CONSCIOUSNESS (3). Explores the social and cultural processes through which we construct our world. Includes the sociology of knowledge, symbolic interactionism, phenomenological sociology, ethnomethodology, cultural studies, and related topics. Prerequisite(s): SO 200 or permission of instructor.

SO 422. DIVERSITY IN U.S. SOCIETY (3). Provides a critical and comparative analysis of race, ethnicity, and other diversity in the United States. Includes racism, creation, and maintenance of ethnic group status, political processes, and movements for self-determination. Prerequisite(s): One 200-level Sociology or Anthropology course or permission of instructor required. Cross listing: CR 422.

SO 423. MEXICAN AMERICANS IN THE U.S. (3). Provides a general overview of Mexican Americans in the United States in contemporary society. Examines the history, culture, and past and present policies that have affected the community. Emphasizes racism, discrimination, prejudice, internal colonialism, split labor market theory, immigration, participation in social movements, and experiences within the various social institutions such as the economy, politics, media, education, and the family. Prerequisite(s): One 200-level Sociology or Anthropology course or permission of instructor. Cross listing: AN 423.

SO 424. SEX, GENDER AND SOCIETY (3). Examines the social construction of gender difference and stereotypes in the US and other cultures. Performs critical analysis of biological, sociological, anthropological, historical, and psychological explanations of masculinity and femininity. Includes intersections between gender and ethnicity, sexual orientation, social class, friendship, love, work, and disability. Pre-requisite(s): One 200-level Sociology or Anthropology course, or any Women's and Gender Studies course. Cross listing: WGS 424.

SO 425. NATIVE AMERICANS (3). Provides a general overview of Native Americans of North America. Examines the history, past and present social policies and treaties, and the American Indian Movement. Explores concepts such as racism, discrimination, prejudice, and internal colonialism. Prerequisite(s): One 200-level Sociology or Anthropology course or permission of instructor.

SO 426. RACE AND ETHNICITY IN LATIN AMERICA (3). Explores the multiple, complex and historically changing meanings of the concepts of race and ethnicity in Latin America, and the consequences of discrimination towards specific groups based on these concepts. Regions covered will be the Caribbean, Atlantic Central America, and the Pacific, Atlantic and Andean regions of South America. Salient issues will be covered for each region. Prerequisite(s): SO 200 or SO 204 or AN 204 or permission of instructor. Cross listing: AN 426.

SO 436. ENVIRONMENT AND ENERGY (3). Examines the relationship between the development of energy resources and environmental conditions. Emphasizes how economic and political ideology and institutions affect our relationship to the Earth. Prerequisite(s): One 200-level Sociology or Anthropology course or permission of instructor required. Cross listing: ENVS 436 and PJ 436.

SO 439. BLACK SOCIAL THOUGHT (3). Focuses on African-American social thought and the West African influence from historical, political, sociological and cultural perspectives from pre-1492 to present day. Includes intensive pre-departure seminars, a two-week Ghanaian service-oriented field experience and service in Denver communities. Prerequisite(s): SO 200 or SO 204 or AN 204 or permission of instructor. Cross listing: PJ 439. NOTE: Acceptance into the Tinansa Program required.

SO 441. SUSTAINABLE COMMUNITIES (3). Explores social, environmental, and economic issues that prevent and encourage more sustainable communities. Topics include transportation, sprawl, poverty, urban/wildlife interface, housing, population, consumption, municipal/toxic waste, community resources and empowerment, and a variety of proposed solutions from around the world. Prerequisite(s): One 200-level Sociology or Anthropology course or permission of instructor required. Cross listing: ENVS 441 and PJ 441.

SO 450. CRIMINOLOGY (3). Analyzes social, political, and economic dynamics of crime including corporate and government crime, racism and sexism in the criminal justice system, and imprisonment. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: CR 450.

SO 451. JUVENILE DELINQUENCY (3). Investigates juvenile delinquency in the context of social and political authority, the operations of the criminal justice system, youth culture and youth subcultures, and related social issues. Presents various sociological theories of juvenile delinquency, and examines various historical and contemporary manifestations of juvenile crime and deviance. Prerequisite(s): One 200-level Sociology or Anthropology course or permission of instructor. Cross listing: CR 451.

SO 452. PUNISHMENT AND CORRECTIONS (3). Provides historical, political, and economic analysis of the panel system in the United States. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: CR 452 and PJ 452.

SO 459E-W. TOPICS IN CRIME AND JUSTICE (3). Selected courses will focus on issues related to crime, police, the court system, punishment, social control, rehabilitation, etc. Prerequisite(s): SO 450 or CR 450 recommended. Cross listing: CR 495E-W.

SO 460. SOCIAL MOVEMENTS (3). Examines a variety of U.S. social movements from the 1950's through the present. Explores theoretical questions of how movements emerge, who joins them, the effect of various tactics, and the factors that contribute to a movements' success or demise. Pre-requisite(s): One 200-level Sociology or Anthropology course. Cross listing: PJ 460.

SO 461. MEXICO AND CENTRAL AMERICA (3). Studies the multiplicity of culture and linguistic groups of Mexico and Central America within modern nation-states from an anthropological perspective. Focuses on issues of gender, economic and social experiences of these groups, with special attention to their ethnic diversity and unity. Prerequisite(s): SO 200 or SO 204 or AN 204 or permission of instructor. Cross listing: AN 461.

SO 464. SAUL ALINSKY AND THE COMMUNITY ORGANIZING TRADITION (3). Presents history, theory and strategies of community organizing in the United States, and experience of community organizing techniques by developing and implementing a community organizing project on the Regis campus or working with the local community organizers. Cross listing: PJ 464.

SO 469E-W. TOPICS IN CULTURE (3). Analysis of origins, development, and changes/challenges of ancient and/or modern cultures. Prerequisite(s): SO 200 or AN 204 or permission of instructor. Cross listing: AN 469E-W.

SO 470. SOCIAL INEQUALITY (3). Provides a comparative examination of theoretical and ethnographic patterns of inequality in the United States and other countries. Prerequisite(s): One 200-level Sociology or Anthropology course or permission of instructor required. Cross listing: PJ 427.

SO 472. WEALTH AND POWER (3). Provides a comparative examination of political and economic institutions, the groups that dominate these institutions, the means by which they exercise power and challenges to the exercise of power. Prerequisite(s): EC 200 or EC 320 or one 200-level Sociology or Anthropology course or permission of instructor.

SO 474. MODERN SLAVERY AND TRAFFICKING (3). Modern Slavery and human trafficking in global perspective. Covers sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. Explores the role of the state, organized crime, the media, culture, corruption, and debates about prostitution. Includes testimonies by survivors research reports, theoretical essays, policy statements, expert testimonies, and videos. Prerequisite(s): SO 200 or PJ 400 or permission of instructor. Cross listing: PJ 474 and CR 474.

SO 475. GLOBALIZATION AND REVOLUTION (3). Critical examination of economic, social, and political instruments of globalization, revolution, and social change around the world. Prerequisite(s): SO 200 or permission of instructor. Cross listing: PJ 475.

SO 481. THE FAMILY (3). Provides a comparative analysis of marriages, families, and domestic groups. Examines varieties of family life and their effects on men, women, children, and other social institutions. Prerequisite(s): SO 200 or WGS 400. Cross listing: WGS 481.

SO 485. ANTHROPOLOGY OF RELIGION (3). Provides an anthropological examination of religious expression in past and present societies. Includes myth, ritual, shamanism, symbolism, and religious change. Prerequisite(s): SO 200 or SO 204 or AN 204 or permission of instructor required. Cross listing: AN 485.

SO 486. MASS COMMUNICATION AND SOCIETY (3). Investigates and analyzes economic, political, and ideological dimensions of mass communication, mass communication, and social control, and the development of mass media forms. Prerequisite(s): SO 200 or COM 380. Cross listing: COM 486.

SO 490E-W. INDEPENDENT STUDY IN SOCIOLOGY (1-3). Offers an opportunity for individual study of an approved topic in sociology under the direction of a sociology faculty member. Permits faculty and students to explore together some subject of special or personal interest. Prerequisite(s): SO 200 and approval of department chair.

SO 491. COMMUNITY SOCIAL CHANGE SEMINAR I (3). Discussions, readings and assignments will take place at the intersection of three dimensions of learning; the Internship Experience (Action), Experiential Learning Pedagogy (Consciousness), and Theories and Practice of Social Change (Knowledge). Prerequisite(s): One 200-level Sociology or Anthropology course and Junior or Senior Standing. Co-requisite(s): SO 498E-W.

SO 492. COMMUNITY SOCIAL CHANGE SEMINAR II (3). Readings on University/Community collaborations, Community Based research, and social change, as well as the implementation and completion of a community project in collaboration with community partners. Prerequisite(s): SO 491. Co-requisite(s): SO 498E-W.

SO 496E-W. TOPICS IN SOCIOLOGY (3). Offers selected topics including sociology of medicine, community, and urban studies. Pre-requisite(s): One 200-level Sociology or Anthropology course.

SO 498E-W. INTERNSHIP IN SOCIOLOGY (1-3). Provides an intensive work experience appropriate to the sociology discipline. Prerequisite(s): Junior or Senior Standing and Approval of Department Chair and Director of Academic Internship Program required. Co-requisite(s): SO 491 and SO 492.

SO 499. MAJORS SEMINAR (3). Capstone course provides Sociology majors with information on graduate school, employment opportunities and particular ways their knowledge can be used to contribute to the community. Students are encouraged to participate in the community during this course. Prerequisite(s): Majors and minors only and Senior standing.

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WOMEN'S AND GENDER STUDIES

Dr. Kari Kloos, Program Director

Women's and Gender Studies Major 30 SH

WGS 400--Introduction to Women's and Gender Studies	3 SH
WGS 498E-W--Internship in Women's and Gender Studies	3 SH
WGS 499--Women's and Gender Studies Senior Thesis	3 SH

Plus twenty-one semester hours of Women's and Gender Studies courses which must include a minimum of one course (3 SH) selected from the humanities and at least one course (3 SH) from the social sciences. Examples include::

Humanities

WGS 410E-W--Women in Literature	3 SH
WGS 435--Images of Women in Art and the Popular Media	3 SH
WGS 437--Writing By and About Hispanic Women	3 SH
WGS 460E-W--Women and Religion	3 SH
WGS 470-- Feminist Theory	3 SH
WGS 485H--The Politics of Poverty	3 SH
WGS 490E-W--Selected Topics in Feminist Theory	3 SH

Social Science

WGS 411--Food, Gender, and Culture	3 SH
WGS 424--Sex, Gender and Society	3 SH
WGS 440--Gender, Sexuality and Communication	3 SH
WGS 441--Gender and Performances of Self and Society	3 SH
WGS 444--Economics of Poverty and Inequality	3 SH
WGS 450--Psychology of Women	3 SH
WGS 467--Human Sexuality	3 SH
WGS 485E--Family Violence	3 SH

Women's and Gender Studies Minor 15 SH

WGS 400--Introduction to Women's and Gender Studies	3 SH
Upper Division Women's and Gender Studies Electives (selected with the approval of the major advisor)	12 SH

NOTE: WGS 400 is prerequisite for all upper division Women's and Gender Studies courses.

WOMEN'S AND GENDER STUDIES COURSE DESCRIPTIONS (WGS)

WGS 400. INTRODUCTION TO WOMEN'S AND GENDER STUDIES (3). Presents an interdisciplinary study of gender in society. Introduces different theoretical frameworks for examining sexual difference in history, culture, and contemporary society. Applies concepts and methods of Women's and Gender Studies to such topics as family, religion, work, sexuality, and social change.

WGS 401. WOMEN'S HEALTH ISSUES (3). Focuses on the maintenance and promotion of women's health across the full spectrum of women's lives. Topics explore physiological, psychological, cultural, economic, sociological, and spiritual factors that influence women's health over the life span. Cross listing: HSC 401 and PE 401. NOTE: For non-Nursing majors.

WGS 410E-W. WOMEN IN LITERATURE (3). Surveys women's literary achievement, or focuses on a particular historical period or cultural milieu, ethnographic perspective or social theme. Examines literary and critical works focusing on women's viewpoints in social, cultural, economic, and aesthetic contexts. Prerequisite(s): WGS 400 or RCC 200 or EN 210 and one 300-level English course. Cross listing: EN 410E-W.

WGS 411. FOOD, GENDER, AND CULTURE (3). Explores ways in which preparing, eating, and thinking about food reflects culturally determined gender and power relations in societies around the world. Prerequisite(s): One 200-level Sociology or Anthropology course, or any Women's and Gender Studies course.. Cross listing: AN 411 and SO 411.

WGS 413. GENDER, LANDSCAPE AND AMERICAN LITERATURE (3). Focuses on American literature and other media to examine responses to landscape and nature, and the implications of these responses to our understanding of gender, as well as political and historical forms of colonization of people, and exploitation. Prerequisite(s): RCC 200, EN 210, WGS 400 and one 300-level English course. Cross listing: ENVS 423.

WGS 420. TOPICS IN GENDER AND HISTORY (3). Investigates the roles women have played in history and in different social contexts from ancient to modern times. Approach to topics may be comparative or specific to a certain geographical area. Prerequisite(s): WGS 400 or permission of instructor or Junior standing. Cross listing: HS 420.

WGS 424. SEX, GENDER AND SOCIETY (3). Examines the social construction of gender difference and stereotypes in the US and other cultures. Performs critical analysis of biological, sociological, anthropological, historical, and psychological explanations of masculinity and femininity. Includes intersections between gender and ethnicity, sexual orientation, social class, friendship, love, work, and disability. Pre-requisite(s): One 200-level Sociology or Anthropology course, or any Women's and Gender Studies course. Cross listing: SO 424.

WGS 433. CONTEMPORARY HISPANIC WOMEN WRITERS (3). Surveys contemporary Hispanic women's literary achievements. May draw from the literature of Latin America, the United States, and Spain. Examines literary and critical works focusing on women's viewpoints in social, cultural, economic, and aesthetic contexts. Cross listing: SP 433.

WGS 435. IMAGES OF WOMEN IN ART AND THE POPULAR MEDIA (3). Examines the visual representation of women in both art and the popular media. Emphasizes the examination of the construction of gender utilizing various theoretical models of analysis. Prerequisite(s): FAC 200 or FAC 211 or FAC 212. Cross listing: FAHS 435.

WGS 437. WRITING BY AND ABOUT HISPANIC WOMEN (3). Analyzes the creation and re-creation of the female persona in selected texts by and about Hispanic women writers from the middle ages to the present. Emphasizes critical analysis and the continued development of speaking, reading, writing, listening and cultural proficiency.

WGS 440. GENDER, SEXUALITY AND COMMUNICATION (3). Explores connections between communication, gender, and sexuality in close relationships, organizations and the media. Course involves readings, dialogues, films, field trips, and group projects. Prerequisite(s): COM 380 or WGS 400 or permission of instructor. Cross listing: COM 440.

WGS 444. ECONOMICS OF POVERTY AND INEQUALITY (3). Examines poverty, inequality, and discrimination in an economic context and explores the effectiveness of government policies designed to address associated inequalities. Consideration is given to the wealth gap, wage disparities, and capital access both within countries and between countries. Prerequisite(s): EC 320 and EC 330 or permission of instructor. Cross listing: BA 444, EC 444, and PJ 444.

WGS 445. EMPLOYMENT LAW AND POLICY (3). Surveys the impact of state and federal employment laws on the organization. Examines both the history of and resistance to focus--not legal focus per se. Provides a chronicle examination of the laws that were passed, and the resistance to the legislation. Explores what was happening in the community that made the laws necessary, what values are reflected in the law, and whether the law is adequate to balance the needs of the employer and employee. Prerequisite(s): BA 250 and BA 461. Junior standing. Cross listing: BA 445 and PJ 445.

WGS 449. 18TH CENTURY NOVEL (3). Studies representative novels of the period, reflecting the dominant genres such as Realistic, Sentimental, and Gothic. Prerequisite(s): CCS 200 or RCC 200, EN 210 or EN 250 and one 300-level English course. Cross listing: EN 449.

WGS 450. PSYCHOLOGY OF WOMEN (3). Introduces issues surrounding the psychology of women. The major domains of psychology used to address topics about women's behavioral and mental processes and how they are formed and altered by a woman's physical state, mental state, and external environment. Prerequisite(s): PY 250 or WGS 400. Cross listing: PY 450.

WGS 460E-W. WOMEN AND RELIGION (3). Explores the role of women in various religious traditions, feminine images of the divine, feminist approaches to spirituality, and contemporary models of religious expression and worship. Prerequisite(s): RT 201 or WGS 400. Cross listing: RC 460E-W.

WGS 467. HUMAN SEXUALITY (3). Focuses on the physiological, behavioral, cognitive, and social aspects of human behavior as related to human sexuality using a multidisciplinary and life-span approach. Topics include physiology, communication, gender, development, orientation, violence, the marketplace, culture, religion, and health. Prerequisite(s): PY 250 or WGS 400. Cross listing: PY 467.

WGS 470. FEMINIST THEORY (3). Focuses on the striking emergence of feminist philosophy in the last half of the twentieth century. Studies the development of this movement, its impact on philosophy, and the changes it portends for future philosophizing. Emphasis may be on different approaches with feminist thinking (e.g., Anglo-American vs. French feminist writers) or on specific issues in feminist thought. Prerequisite(s): WGS 400 or one 200-level Philosophy course. Cross listing: PL 470.

WGS 481. THE FAMILY (3). Provides a comparative analysis of marriages, families, and domestic groups. Examines varieties of family life and their effects on men, women, children, and other social institutions. Prerequisite(s): SO 200 or WGS 400. Cross listing: SO 481.

WGS 485E-W. SPECIAL TOPICS IN WOMEN'S AND GENDER STUDIES (3). Offers and discusses selected topics in Women's and Gender Studies. Prerequisite(s): WGS 400.

WGS 490E-W. SELECTED TOPICS IN FEMINIST THEORY (3). Discusses a variety of topics in feminist theory from eighteenth and nineteenth century writers such as Wollstonecraft and Mill to contemporary feminist thinkers. Among the possible topics to be considered are liberal reformism or radical transformation, the politics of difference, the challenges of postmodernism, feminism, and women of color, etc. Prerequisite(s): WGS 400.

WGS 495E-W. INDEPENDENT STUDY IN WOMEN'S AND GENDER STUDIES (3). Provides an opportunity for independent study in an area of interest in women's and gender studies. Prerequisite(s): WGS 400 and approval of program director. Majors and minors only.

WGS 498E-W. INTERNSHIP IN WOMEN'S AND GENDER STUDIES (3). Provides intensive and practical work experience related to Women's and Gender Studies.

WGS 499. WOMEN'S AND GENDER STUDIES SENIOR THESIS (3). Students meet regularly with their thesis advisor to prepare a thesis paper based on independent research. The thesis will be defended before the Women's and Gender Studies Committee before the end of the semester.

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REGIS COLLEGE GRADUATE PROGRAMS

MASTER OF ARTS IN EDUCATION

Ms. Kathleen Nutting, MAE Director

Dr. Elizabeth Hope Dorman, Assistant Professor and Program Director, MAE: Graduate Teacher Licensure

Ms. Deborah Agar, MAE Assistant Director

OFFICE: Master of Arts in Education
Room 115 Carroll Hall
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INTRODUCTION

The Master of Arts in Education Program in Regis College is primarily designed for licensed teachers (K-12) who desire to learn in a collaborative, reflective, and challenging environment through experiences that develop their capabilities as leaders in the education profession. A strand of the MAE Program is also offered for recent college graduates seeking initial teacher licensure.

The Master of Arts in Education offers the following options at the graduate level:

- Master of Arts in Education: Graduate Teacher Licensure (MAEGTL)
- Master of Arts in Education: Learning and Teaching (MAELT)
- Master of Arts in Education: Teaching the Linguistically Diverse (MAELD)
- Master of Arts in Education: English as a Second Language (MAE:ESL)
- Linguistically Diverse Education Endorsement (LDE)
- Culturally and Linguistically Diverse Education Endorsement (CLDE) *
- Linguistically Diverse Education Specialist: Bilingual Education Endorsement (LDES)
- Linguistically Diverse Learner (LDL) Academic Certificate
- English as a Second Language (ESL) Academic Certificate

*Approval in the review process through Colorado Department of Education.

The MAELD program includes required credit hours for an LDE Endorsement (21 semester hours) or ESL/LDL Certificate (12 semester hours). LDL Endorsement and/or LDL Certificate hours may also be applied toward the MAELT degree emphasis.

Although the MAELT and MAELD programs give in-depth training in a number of areas, completion does not lead to licensure as a public school teacher in the State of Colorado. The MAE program in Graduate Teacher Licensure does lead to teacher licensure. Please refer to that specific section for further information.

LEARNING FORMAT

Courses in the MAE Program are primarily classroom-based with some courses also offered in a blended format which includes online components. Fall and spring semester courses are delivered in a weekend or evening format. There are some courses that extend over a full 16-week academic period. Most of the summer semester courses are offered in concentrated blocks.

FACULTY

The MAE Program is distinguished by a faculty drawn largely from the ranks of practicing education professionals. The program's fundamental instructional philosophy is that eminently qualified master teachers practicing constructivist learning theory in classrooms are actively involved in the program as instructors and mentors/advisors.

ADMISSION

Requirements

1. A baccalaureate degree and proof of current teacher licensure as an pre-K, elementary, secondary or K-12 teacher.
2. Submission of official transcripts for all college/university coursework.
3. An undergraduate cumulative grade point average of 2.750 from the baccalaureate degree-granting institution. Earned graduate credits may be considered in the GPA requirement as approved by the program director.
4. A minimum of one year teaching experience in either public or private schools in any grade, pre-K through grade 12. Exceptions must be approved by the MAE director.
5. Submission of a two page essay as described in the application form.