

Section III: Course Descriptions



Course Descriptions

WHAT FOLLOWS IS A DESCRIPTION of all the courses offered at Madonna University. Students are encouraged to see their academic advisors to review courses and to make course selections.

An asterisk (*) is included in parentheses after the rubric of a course which is cross-listed from another department; the asterisk indicates the department from which the course originates and in which the full course description can be found. Example:

PSC 4050 Constitutional Law (CJ*/LAW)
This course originates in the Criminal Justice (CJ) Department. The full course description is found at CJ 4050.

COURSE NUMBERING GUIDELINES

The following guidelines for course numbering are intended to facilitate an understanding of and the consistent use of the course numbering system at Madonna University, particularly for student advisement and new course development.

Numbers below 1000 designate Developmental Courses (e.g., ENG 0990). Developmental courses are designed to strengthen college level skills. Remedial courses, however, are not counted toward the degree requirements. These credits are used for such things as calculating athletic and financial aid eligibility, credit load, tuition charges, and the Madonna University career GPA.

1xxx = 1000 level courses are open to all students (e.g., PSY 1010).

2xxx = 2000 level courses are open to sophomores, juniors, seniors, and qualified first year students (e.g., HUM 2010).

3xxx = 3000 level courses are open to juniors, seniors, and other qualified students (e.g., NSC 3250).

4xxx = 4000 level courses are open to seniors and other qualified students (e.g., HIS 4630).

Although some courses at and above the 2000 level do not have explicit prerequisites, there is an implicit prerequisite of class standing or comparable level of academic preparation for such courses.

All students should be encouraged to work at the level of their ability. Although students in upper grade levels are permitted to take courses numbered in the lower sequences, they should be discouraged from doing so habitually.

The difficulty of course work increases with hundreds place only (i.e., CIS 3850 is not necessarily more difficult than CIS 3300.)

Secondary Divisions:

x170, x180, x190 = Workshops (e.g., BUS 4190)

x200, x600 = Independent Study (e.g., HUM 3600)*

x910, x920 = Paid Co-op (e.g., JRN 4910)

x930, x940 = Internship/Practicum (Unpaid Co-op) (e.g., FCR 4930)

4950 = Senior Seminar (e.g., SSC 4950)

Accounting (ACC)

ACC 2000 Survey of Accounting 3 s.h.

Survey for students in non-business majors and non-business minors. Introduction to both financial and managerial accounting concepts and topics: reading and interpreting a complete set of financial statements for an organization, the conceptual foundation and terminology of financial accounting, understanding the nature and role of an internal control system, and analyzing financial and non-financial data to assist managers in making operating decisions.

ACC 2010 Principles of Accounting I 3 s.h.

An introduction to the theory and concepts of financial accounting, including generally accepted accounting principles and issues as to classification, recognition, realization, measurement, and reporting. Emphasis on the accounting process, including preparation of basic financial statements and the accounting for and analysis of transactions affecting assets, selected liabilities, and equity. Prerequisites: MTH 1050 or equivalent and CIS 2380.

ACC 2020 Principles of Accounting II 3 s.h.

Continued study of the theory and concepts of financial accounting. Emphasis on accounting for and the analysis of transactions affecting selected liabilities, special topics, and types of entities. An introduction to managerial-cost accounting principles and techniques of analysis, including budgeting, cash flows, product and standard costing, short-term operational decisions, financial ratio analysis, and capital budgeting. Prerequisite: ACC 2010.

ACC 3030 Intermediate Accounting I 3 s.h.

An intermediate level examination of the basic accounting statements and underlying accounting principles. Topics include: present value concepts, current assets and liabilities, and tangible and intangible assets. Prerequisite: ACC 2020.

ACC 3040 Intermediate Accounting II 3 s.h.

A continuation of the intermediate level examination of the basic accounting statements and underlying accounting principles. Topics include: accounting for leases, pensions, income taxes, earnings per share, financial statement analysis, long-term liabilities, equity transactions, and cash flow statements. Prerequisite: ACC 3030. *Must be taken at Madonna University.*

ACC 3400 Accounting Information Systems 4 s.h.

A study of fundamental principles of accounting and information systems data. Analysis related primarily to corporations and to cost accounting and management accounting topics encountered by accounting and computer personnel: design and control of systems for the origination, development, and use of accounting information systems, including an analysis of computer usage for accounting applications. Emphasis on the interrelationships among the components of an accounting system and the use of the personal computer in the maintenance and reporting of accounting information. Prerequisites: CIS 2380 and ACC 2010.

ACC 3580 Taxation I 3 s.h.

A study of the principles of taxation emphasizing the individual as a taxable entity. Included is a study of tax law as it pertains to inclusions in gross income, exclusions from gross income, and deductions available to the taxpayer. Prerequisites: ACC 2020 and BL 3330 or instructor's consent. *Must be taken at Madonna University.*

- ACC 3610 Taxation II** 3 s.h.
Continued study of principles of taxation; emphasis on business entities, estates, and trusts. Prerequisite: ACC 3580.
- ACC 3910 Cooperative Education** 1 s.h.
- ACC 4050 Advanced Accounting** 3 s.h.
Advanced accounting theory as it applies to partnerships, consolidated financial statements, bankruptcy, and international accounting. Prerequisite: ACC 3040.
- ACC 4060 Government and Non-Profit Accounting** 3 s.h.
Emphasis placed on in-depth analysis of accounting principles and procedures applicable to governmental units and non-profit organizations. Prerequisite: ACC 3040.
- ACC 4500 Auditing** 3 s.h.
Analysis of the audit process, the audit examination, and procedures for completing the audit test. Emphasis on generally accepted auditing standards and professional ethics. Prerequisite: ACC 3040.
- ACC 4700 Advanced Managerial/Cost Accounting** 3 s.h.
Advanced study of various costing methodologies and their interrelationship to managerial issues for planning, managing, controlling, and evaluating business operations. Topics include standard costing and variance analysis, sales variances, process costing issues, allocation methods for service departments and joint/by-product costs, determination of cost functions, transfer pricing, interrelationship with operations research, and strategic control systems. Prerequisites: FIN 3150, MKT 2440, and QS 3550. *Must be taken at Madonna University.*
- ACC 4710-4750 Seminars** 1-3 s.h. (max. 4 s.h.)
Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.
- ACC 4710 Brunch with an Expert Seminar** 1 s.h.
 - ACC 4720 Literature Review Seminar** 3 s.h.
 - ACC 4730 Research Seminar** 3 s.h.
 - ACC 4740 General Topic Seminar** 1-3 s.h.
 - ACC 4750 Leadership Seminar** 1 s.h.
- ACC 4800 Forensic Accounting** 3 s.h.
The objectives and procedures associated with forensic accounting and fraud audits. Topics include audit procedures and responsibilities associated with fraud, criminal law issues and procedures, internal control and information systems design, the Sarbanes-Oxley Act, and issues associated with identity theft. Prerequisites: ACC 2010, 3400, CIS 2380.

Addiction Studies (AS)

- AS 2000 Addiction Studies: General Information** 1 s.h.
Introduction to the field of addiction studies and the scope of chemical dependency issues in the United States. Definition of terms, review of different theories of addiction, examination of the disease concept of chemical dependency, and of the continuum of care options for clients. Discussion of standards for ethical behavior in the field and opportunities for professional practice.
- AS 2120 Addiction Studies: Special Populations** 1 s.h.
Examination of the special needs, issues, and interventions for diverse populations with chemical dependency problems: the scope of the problem, survey of ethnic and racial groups, cultural sensitivity, intervention approaches, and discussion of unique diversity issues in Southeastern Michigan.
- AS 2450 Addiction Studies: Counseling Models** 1 s.h.
Overview of counseling models used in the field of chemical dependency treatment: empathic understanding, case management, problem solving, use of cognitive-behavioral, and solution-oriented and relapse prevention approaches.
- AS 3390 Addiction Studies: Dual Diagnosis** 1 s.h.
An introduction to understanding the assessment and treatment of individuals who have a dual disorder of mental illness and chemical dependency, including presentation of specific intervention strategies and program designs.
- AS 3430 Addiction Studies: Focus on the Individual** 1 s.h.
Identification of the individual with a chemical dependency disorder: the stages of addiction, assessment instruments, care management, and relapse prevention.
- AS 3440 Addiction Studies: Family Systems** 1 s.h.
Chemical dependency and the family: analysis of family roles, rules, relationships, and rituals. Discussion of the dynamics of codependency, adult children of chemically dependent families, family violence, and resources for recovery.
- AS 3460 Addiction Studies: Prevention** 1 s.h.
An overview of current strategies used in prevention programs. Introduction to school-based and community programs on the primary, secondary, and tertiary levels of prevention. Review of local, state, and national efforts including campus prevention.
- AS 3540 Addiction Studies: AIDS** 1 s.h.
An introduction to issues relevant to the chemical dependency treatment field as it encounters the impact of HIV/AIDS: factors related to treatment considerations, methods for reducing high risk behaviors, prevention measures, high risk groups, social interventions, and epidemiologic and psychiatric data. Also, pertinent information on the connection between drug usage and HIV/AIDS in the treatment field.
- AS 3560 Addiction Studies: Grief and Loss** 1 s.h.
The grief and loss issues that confront individuals in recovery: concerns such as family dysfunction, interpersonal loss, life review and repair, and life-style changes discussed in the context of chemical dependency treatment.
- AS 3570 Addiction Studies: Staff and Program Development** 1 s.h.
An introduction to developing effective chemical dependency treatment programs. Emphasis on program design, grant writing, funding, human resource development, team building, conflict resolution, and supervision.
- AS 3610 Addiction Studies: Recovery and Spirituality** 1 s.h.
Spirituality as a key element of chemical dependency treatment. Themes such as healing, forgiveness, and acceptance discussed within the context of addiction and holistic recovery. Specific intervention strategies presented to deal with this vital therapeutic issue, including the Twelve Steps of Alcoholics Anonymous.
- AS 3620 Addiction Studies: Adolescence** 1 s.h.
Identification of issues unique to adolescent chemical dependence. Analysis of the stages of emotional growth and social development, effects on parents and siblings, and obstacles to treatment.
- AS 3630 Addiction Studies: Older Adults (GER)** 1 s.h.
The issues of chemical dependency and the older adult. Focus on assessment, psychosocial factors, treatment strategies, model program designs, and other community resources that address this high-risk client population.

AS 3650 Addiction Studies: Women 1 s.h.
Identification of the issues specifically related to women with addictions. Discussion include the emotional dynamics of guilt and shame, the impact of societal values, obstacles to treatment, and state-of-the-art intervention approaches.

AS 3760 Gambling Addiction 1 s.h.
An introduction to the dynamics of gambling as an addictive behavior: the scope of the problem, types of gamblers, state-of-the-art testing instruments, intervention strategies, and multifaceted family issues. Special populations, such as adolescents and older adults are highlighted.

AS 3870 Neurobiology of Drug Addiction 1 s.h.
An overview of normal brain functioning and the influence of addictive drugs like heroin and cocaine on brain cells; the evidence for the brain's reward pathway as a crucial neural substrate for drug addiction; drug tolerance, dependence, and withdrawal defined in neurophysiological terms.

AS 4490 Addiction Studies: Planning and Treatment 1 s.h.
Introducing the procedures of planning and treatment in the field: assessment of problems, development of treatment plans, creation of behaviorally-specific goals and objectives, designing interventions, and planning for the termination of treatment. Students learn skills in clinical problem solving and the documentation of interventions and outcomes.

AS 4930 Addiction Studies: Practicum 1-4 s.h.
An opportunity to pursue field work directly related to chemical dependency treatment. The experience includes observation, data collection, and direct service. A capstone course that integrates the content of addiction studies courses with actual practice.

Allied Health Administration (AHA)

AHA 1010 Medical Terminology 2 s.h.
Development of medical vocabulary with emphasis on anatomical terms, diseases, symptoms, treatments, and acceptable medical abbreviations.

AHA 2010 Introduction to Health Care Professions (MTE) 2 s.h.
Investigation of health professions, including both careers involving direct patient care and those encompassing support services (as laboratory, health information/medical records, and health administration). Academic, professional, and certification requirements of health professions are explored. An overview of technical and procedural direction is provided to ensure successful entry into clinical practice. Students visit health career practitioners on-site as part of class. *Required of MLT, MTE, NMT, and RTE programs and suggested for students considering transferring to professional programs at either the undergraduate or graduate level.*

AHA 3750 Allied Health Management (MGT*) 3 s.h.

AHA 3800 Health Care Organization 2 s.h.
Overview of legislative, judicial, and political decisions which influence the workings of the health care industry. Examination of issues affecting the roles of health professionals as providers and consumers.

AHA 3930 Internship I 1-6 s.h.
Supervised experience in health care administration.
Prerequisite: departmental approval.

AHA 3940 Internship II 1-6 s.h.
Supervised experience in health care administration.
Prerequisite: AHA 3930.

AHA 4010 Cultural Competency for Health Care Providers and Consumers 1 s.h.
Instruction and practice in identification of differences in culture and language of health care providers and consumers. Students complete modules leading to a certificate in cultural competence according to CLAS standards.

AHA 4090 Sociology of Medicine and Health Care 3 s.h.
Development of a social epidemiology of health and illness as addressed by formal and informal organizations. Emphasis on traditional, non-traditional, allopathic, and holistic paradigms in provision of health services to the multicultural.

AHA 4250 Health Care Law and Public Policy (LAW) 3 s.h.
Designed to address the needs of health professionals for information on the fundamentals of Michigan law. Legal terminology, organization of the court system, the source of law, and basic principles of civil and criminal liability as it relates to negligence and malpractice. Issues relative to confidentiality, documentation, informed consent, conflict of law, risk management, and advanced directives.

AHA 4740 Health Care Finance 3 s.h.
Introduction to the theory and practice of health care finance addressing issues of medical cost, models of provider behaviors, regulatory constraint, technology assessment, and access to care.
Prerequisites: ACC 2000 and ECN 2710.

AHA 4760 Issues in Health Care Administration (MTE) 3 s.h.
Current concepts of administrative practice in allied health occupations. Institutional assessment and practices which impact on responsibility, liability, and quality issues. Prerequisites: MGT 2360 and MGT 3750.

AHA 4780 Educational Principles for Health Care Personnel (MTE) 2 s.h.
Principles of educational practice for health care professionals. Preparation and presentation of materials for staff development and patient education.

AHA 4900 Fundamentals of Health Care Research 2 s.h.
Introduction to the planning, conducting, and presentation of an analytical study of a topic of contemporary clinical significance. Prerequisite: senior status in major. *Required for major.*

AHA 4950 Senior Seminar 2 s.h.
Preparation and presentation of major paper in allied health discipline. Prerequisites: AHA 4900 and departmental approval. *Required for major.*

Applied Science (APS)

APS 2910 Cooperative Education I 1-4 s.h.
Supervised work experience in a professional setting related to the student's area of specialization. Prerequisite: approval of advisor.

APS 2930 Internship I 1-4 s.h.
Supervised work experience in a professional setting related to the student's area of specialization. Prerequisite: approval of advisor.

APS 3020 Field Experience 1-4 s.h.
Credit awarded to individuals for evidence of completion of licensure programs in a technical field and/or full-time employment of two or more years in applied technology. Documentation of competencies required.

- APS 3910 Cooperative Education II** 1-4 s.h.
Advanced semi-professional level assignments in on-the-job applications related to the student's area of specialization. Prerequisite: approval of advisor.
- APS 3930 Internship II** 1-4 s.h.
Advanced semi-professional level assignments in on-the-job applications related to the student's area of specialization. Prerequisite: approval of advisor.
- APS 4950 Senior Seminar** 2 s.h.
Preparation and presentation of a library research paper or project that integrates knowledge gained in the technology core of the applied science discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Art (ART)

- ART 1050 The Visual Arts in 2-D** 4 s.h.
Instruction in drawing through extensive exercises in line, texture, value, shape, space, and composition. Introduction to various drawing media.
- ART 1210 Introduction to Graphic Design (JRN)** 4 s.h.
Overview of the field of graphic design, with emphasis on basic terminology, process, and procedure. The elements and principles of successful graphic design are introduced and practiced through various hand-rendered and digitally-created print projects. Prerequisite or corequisite: ART 1050.
- ART 1700 Introduction to Computer Art** 3 s.h. (max. 6 s.h.)
Introduction to and use of a specific graphic design computer program such as Illustrator or InDesign. Students master key program functions, including tools and palettes, in constructing graphic design projects. Prerequisite or corequisite: ART 1210.
- ART 2050 Typography** 3 s.h.
An exploration of the history and current use of typography within the graphic design community. An introduction to terminologies, letterforms, and the various uses of typography as an art form are explored through the use of various hand-rendered and digital projects. Students are encouraged to use typography to meet specific graphic needs for specific target audiences.
- ART 2070 Creative Design and Color** 4 s.h.
Elements and principles of two- and three-dimensional design and color studied as the basic factors of creative expression. Experimentation in line, texture, value, shape, space, and color within the context of principles of composition, balance, and movement. Students are introduced to theories and techniques which lead to an understanding of both two- and three-dimensional media, e.g., painting and sculpture.
- ART 2100 Illustration** 3 s.h.
An overview of the field of Illustration. Introduction of the use of research and reference materials. Projects exploring an awareness of composition and use of various media. Students are encouraged to develop conceptual solutions to specific needs and visually communicate those solutions to a target audience or purpose. Prerequisite: ART 1050; prerequisite or corequisite: ART 2070.
- ART 2680 Graphic Design II** 4 s.h.
Exploration of various forms of graphic design. The elements and principles of successful graphic design are developed to an intermediate level of proficiency through design projects including direct mail, book and publication, packaging, and signage, with an introduction to web design. Prerequisite: ART 1210 and 1700 or permission of instructor.
- ART 2750 Painting and Composition** 3 s.h.
The development of skills requisite to oil painting or acrylics, based on a systematic treatment of composition and the technique of painting. Emphasis on the most effective use of materials and concepts. Prerequisites: ART 1050 and 2070.
- ART 2800 Creative Watercolor** 3 s.h.
Introduction to watercolor techniques and application of both traditional and avant-garde methods of painting to imaginative composition and/or stylization of subject matter. Development of advanced understanding of color theory. Prerequisite: ART 2070 or permission of instructor.
- ART 3100 Advertising Design** 4 s.h.
A third-level examination of advanced terminology, processes, and procedures in graphic design. Special emphasis on advertising campaigns and the different formats used in them, such as editorial series, outdoor and indoor signage, promotional packaging, and direct mail design, with an introduction to art direction through storyboarding. Prerequisite: ART 2680.
- ART 3130 Photography I (JRN*)** 3 s.h.
- ART 3140 Photography II (JRN*)** 3 s.h.
- ART 3150 Photoshop (JRN)** 3 s.h.
Introduction to a variety of image processing capabilities, with an emphasis on the development of original images related to art and publication design. Students learn to combine basic design, drawing, and composition techniques within the technical framework of computer design, including image conversion, color correction, manipulating layers, working with paths, websites, and print preparation. Prerequisite: ART1700 or permission of instructor.
- ART 3300 Advanced Drawing** 3 s.h. (max. 6 s.h.)
Life drawing among a variety of subjects, developing contemporary approaches to realistic and abstract compositions. Prerequisite: ART 1050.
- ART 3310 Advanced Painting** 3 s.h. (max. 6 s.h.)
Advanced level instruction in one of the following media: oil, watercolor, acrylics, or mixed media. Prerequisite: ART 2750 or 2800.
- ART 3360 Figure Drawing and Anatomy** 3 s.h. (max. 6 s.h.)
Life drawing from the human figure and a study of anatomy for the artist. A variety of approaches to the figure are explored, as well as a choice of drawing techniques. Prerequisites: ART 1050 and ART 2070.
- ART 3390 Oriental Brushwork** 2 s.h.
A studio course based on the theory and practice of Chinese and Japanese ink brush painting. Lecture and grinding of ink and painting each class.
- ART 3460 Relief and Silkscreen Printing** 3 s.h.
Principles and techniques of making multiple images from relief surfaces such as linoleum, wood block, and from stencil printing, particularly silkscreen. Prerequisites: ART 1050, 2070, or permission of instructor.
- ART 3800 Web Design for Graphic Designers** 3 s.h.
Study of a specific web-design program such as Flash or Dreamweaver. Students build on previous computer and design skills to master key program functions, including tools and palettes, in constructing graphic design projects. Prerequisite: ART 2680.
- ART 4080 Three Dimensional Forms** 4 s.h. (max. 8 s.h.)
An upper-level studio course in which students are expected to explore techniques of sculpture which expose them to subtractive and additive methods and materials, such as: clay, stone, plas-

ter, and wax. Consideration of the materials used in fabrication, such as wood, metal, and plastic. Students are expected to be self-directed in the subjects they choose to explore, develop, and pursue. Students are further required to research traditional and contemporary sculpture as a way to develop their own curiosity in the medium. Dialogue between instructor and student to develop effective critical thought.

ART 4250 Advanced Graphic Design 4 s.h.

Advanced-level exploration of processes and procedures in graphic design. Special emphasis on branding and identity design is achieved through projects using research and conceptual skills. Development of an effective student career portfolio. Prerequisite: ART 2680; recommended ART 3100 or 3800.

ART 4280 Advanced Sculpture 3 s.h. (max. 6 s.h.)

A hands-on experience in which the student is actively engaged in the creative process. At this level, students are allowed a good deal of freedom in their choice of content and form-making. Modeling, casting, carving, additive methods, and transformative methods are all possible approaches. Students may also choose to combine various techniques. Subject matter (content) and materials are determined by the student in consultation with the instructor. Prerequisite: ART 4080.

ART 4400, 4410 Advanced Studio 2-4 s.h. (max. 8 s.h. each)

Independent advanced work in media and disciplines not currently offered, such as advanced painting, drawing, design, sculpture, advertising, etc. Permission of department head and instructor required.

ART 4470 Intaglio (Etching) 3 s.h.

A studio course designed to introduce the various intaglio processes: etching, aquatint, drypoint, and the exploration of color and black-and-white printing. Principles of historical and contemporary techniques are approached and discussed.

ART 4480 Lithography 3 s.h.

A studio course designed to introduce both stone and metal-plate lithography. Printing in both color and black-and-white, advanced exploration and experimentation are encouraged and desired. Principles of historical and contemporary techniques are approached and discussed.

ART 4950 Senior Seminar 1 s.h.

The senior capstone course for all majors in the Art Department at Madonna University. Students complete culminating projects dedicated to a process of reflection on their original goals in the field. Projects include: a portfolio of work within the program of study, as well as any professional portfolios; an assessment and critical analysis of students' own work; research and a paper on a topic related to their individual area of study; and participation in the production of the Senior Art Show.

Art Education (AED)

AED 3100 Visual Culture 3 s.h.

Critical thinking about the increasingly visual culture that predominates the lives of twenty-first century American citizens. Analytic tools of semiotics used to look beyond the first layer of meaning of a given cultural product to the underlying content and the motivation which prompts all cultural texts. Discernment of various ideological structures that help both inform a cultural product and aid in the interpretation of texts by the surrounding culture.

AED 3160 Art for the Elementary School Teacher (EDU) 2 s.h.

Study of elements of art with orientation to a variety of media and techniques, emphasizing preparation of innovative, motivating art les-

sons appropriate to elementary grades. (*Specifically designed for non-art majors.*)

AED 3800 Principles of Elementary Visual Arts Education 3 s.h.

Developmentally appropriate visual arts techniques, teaching strategies, lesson design and presentation, classroom observations, and the theories, history, and philosophy of visual arts education for the elementary age child. *Includes 15 hours of field placement.*

AED 3810 Principles of Secondary Visual Arts Education 3 s.h.

Visual arts techniques, teaching strategies, lesson design and portfolio presentation, classroom observations, and the theories, history, and philosophy of visual arts education for the secondary student. *Includes 15 hours of field placement.*

Art History (AHIS)

AHIS 2020 Great Monuments in World Art 3 s.h.

Slide lectures and discussions of important artifacts and masters in the visual arts, stressing the understanding and appreciation of man's creative ability as seen through works of art. (*Not for art majors.*)

AHIS 3250 Art History: Ancient to Renaissance 4 s.h.

Study of painting, sculpture, architecture, and decorative arts from prehistoric, ancient Greek, Roman, and medieval periods through the early Renaissance.

AHIS 3260 Art History: Renaissance to 20th Century 4 s.h.

Study of significant examples of painting, architecture, and sculpture from the high Renaissance in Italy, northern and southern Baroque masters, Rococo to 20th century.

AHIS 3280 Dynamic Detroit Architecture 2 s.h.

A concentrated study of the architecture in Metro Detroit as it reflects the development of American architecture in the past three hundred years. Lectures and class discussions are supplemented by field trips to principal sites of significant architecture in Detroit and the surrounding areas. No prerequisites.

AHIS 3350 Asian Art: India, China, Japan 3 s.h.

A study of the architecture, sculpture, painting, decorative arts, bronzes, ceramics, and garden designs in India, China, and Japan. Correlation of these artifacts with the social, religious, cultural, and historic climate of these cultures. Emphasis placed on the understanding and appreciation of the creativity evident in both historic works and modern works of art of the 20-21st centuries, continuing the traditions while introducing new stylistic and content imagery.

AHIS 4150 Modern Art: Late 19th and 20th Century Art 4 s.h.

A study of the painting, sculpture, architecture, decorative arts, and new media of the 19th and 20th century artist, beginning with art movements and the development of the "avant-garde" concepts, continuing through to the most recent post-modern expressions in the visual arts. The significance of individuals both within and outside of artistic movements is contrasted. Emphasis placed on the understanding and appreciation of the creativity evident in the various modern expressions of the visual arts in the West, along with the new expressions evident in non-western art of India, China, Japan, and Korea.

AHIS 4750 Studies in Art History 3 s.h. (max 9 s.h.)

Topics in art history vary according to period, artists, school, culture, or patronage.

Biology (BIO)

- BIO 1010 Introductory Biology** 4 s.h.
A course for non-science majors, presenting biological concepts influencing individual decisions affecting community structure and the state of the world. Lecture 3 hours, laboratory 3 hours.
- BIO 1030 General Biology I** 4 s.h.
Fundamental biological principles and problems as they apply to molecular, cellular, and organismic levels of the biosphere. Lecture 3 hours, laboratory 3 hours. Prerequisite or corequisite: CHM 1110 or equivalent; one year each of high school biology and chemistry highly recommended.
- BIO 1040 General Biology II** 4 s.h.
Fundamental biological principles and problems as they apply to evolutionary theory, biosystematics, plant structure and function, animal behavior, and ecological concepts. Prerequisite: one year each of high school biology and chemistry highly recommended; BIO 1030 recommended but not required.
- BIO 2240 Basic Human Physiology** 4 s.h.
Non-laboratory study of the functioning of the body systems considering the integration and control of life processes in the cells, tissues, organs, and systems of the human body.
- BIO 2260 Microbiology** 4 s.h.
Fundamental principles of microbiology with emphasis on the biology of bacteria and other microbes (metabolism, genetics, growth, and death), their ecological relationships in natural and controlled environments, and the interactions of pathogenic microorganisms and their human and animal hosts. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1610 or 2210 and BIO 1030 or 2240 or 2430.
- BIO 2430 Human Anatomy and Physiology I** 3 s.h.
Study of anatomical terminology, the cell, and the structure and function of the integumentary, skeletal, muscular, and nervous systems. Lecture 2 hours, laboratory 2 hours. Prerequisite: one year each of high school biology and chemistry.
- BIO 2440 Human Anatomy and Physiology II** 3 s.h.
Study of the sense organs, circulation, respiration, digestion, excretion, reproduction and development, the endocrine system, fluids and electrolytes, and acid-base balance. Lecture 2 hours, laboratory 2 hours. Prerequisite: one year each of high school biology and chemistry.
- BIO 3010 Genetics** 4 s.h.
Principles of genetic theory with its application to plants, animals, microorganisms, and humans. and techniques (including statistics). Lecture 3 hours, laboratory 3 hours. Prerequisites: 12 s.h. of biology including BIO 2260; MTH 2350; CHM 3610 recommended.
- BIO 3150 Human Genetics and Society** 3 s.h.
The new genetics affects us all and the ethical, legal, and social implications of this technology will impact society for years to come. Students research topics of contemporary significance using tools of classical genetics such as the pedigree and the genetic code as well as RFLP markers, PCR technology, and cytogenetics based on DNA probes. (*For non-science majors; does not apply to Biology major or minor.*)
- BIO 3170 Invertebrate Zoology (Parasitology)** 4 s.h.
Study focuses upon the morphology, classification, life cycles, epidemiology, and control of major human parasites. Laboratory emphasizing the identification of parasitic adult and larval forms as observed in clinical specimens. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 2260.
- BIO 3210 General Ecology** 3 s.h.
Study of the principles of ecological interdependence and interaction between plants and animals with each other and with their environment. An overview of research methods used in field studies complements theoretical concepts in lecture. Lecture 2 hours, laboratory/ field 3 hours. Prerequisite: 6 s.h. in biology.
- BIO 3280 Immunology** 4 s.h.
Basic principles of immunology and serology with emphasis on the nature of antigens and antibodies, the theories of the immune response, and the application of principles in hypersensitivity, tumor, and transplantation immunology. Theory and practice of serological techniques including immunoprecipitation, agglutination, and complement-mediated cell lysis. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIO 2260 and CHM 3610; BIO 3010 recommended.
- BIO 3300 Human Sexuality in a World of Diversity** 4 s.h.
An interdisciplinary course designed to introduce students to the biological sciences through a consideration of issues related to human sexuality. Issues central to the course are (1) human diversity and values, (2) responsible sexual decision making, and (3) sexual health. (*Not applicable to BIO major or minor.*)
- BIO 3500 Medical Mycology** 4 s.h.
Studies in the isolation and identification of fungi with emphasis on the fungi of medical importance. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 226.
- BIO 3610 Epidemiology** 3 s.h.
Study of factors involved in the occurrence and prevention of diseases within human populations. Prerequisite: BIO 2260.
- BIO 3710 Pathophysiology** 3 s.h.
Study of disease processes affecting normal functioning of the human body in cardiovascular, pulmonary, endocrine, neurological, and renal systems. Prerequisites: BIO 2430, 2440.
- BIO 4010 Population Genetics (FOR)** 3 s.h.
Theory and application of population genetics with emphasis on mathematical and statistical methods for describing specific populations, genetic make-up and diversity. 3 hours of lecture per week. Prerequisites: BIO 3010, MTH 1210, and MTH 2350.
- BIO 4270 Clinical Bacteriology** 4 s.h.
Study of the qualitative and quantitative aspects of bacteriology in relation to diseases as found in humans. Methods of detection, isolation, and enumeration, toxin production, and techniques in the identification of pathogenic bacteria. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 2260; BIO 3280 recommended.
- BIO 4410 Molecular Biology** 3 s.h.
Introductory course in molecular biology, including a description of common techniques used by molecular biologists and a detailed comparison of prokaryotic and eukaryotic cells with respect to the details of transcription, post-transcriptional events, translation, gene regulation, and DNA replication.
- BIO 4500 Physiological Psychology (PSY*)** 3 s.h.
- BIO 4620 Forensic Biology (FOR*)** 3 s.h.
- BIO 4700 Biological Investigation** 1-4 s.h. (max. 4 s.h.)
Independent research, directed reading, or special problems under the supervision of a faculty member. Prerequisites: recommendation of major advisor and problem director.
- BIO 4950 Senior Seminar** 2 s.h.
Preparation and presentation of a scientific paper. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Broadcast and Cinema Arts

(BCA)

BCA 1010 Survey of Broadcast, Film, and Digital Media (JRN) 3 s.h.

An overview of the telecommunications industry, its technical and economic nature, and its consideration as both a product of social forces and as a social force itself.

BCA 2020 Cinema Studies (SPH) 3 s.h.

Introduction to the language, art, and culture of film including the study of classic and contemporary films and their aesthetic, cultural, and social significance.

BCA 2310 Modern Radio Techniques I 1 s.h.

Introduction to the concepts and techniques of radio production, including basic recording, mixing, and editing techniques. Students produce station promos, ID's, interviews, and documentaries, and perform live as DJs or announcers.

BCA 2320 Modern Radio Techniques II 1 s.h.

Advanced concepts and techniques of radio production, including a focus on radio interviewing techniques and the art of sound editing. Students produce a short documentary, applying advanced techniques. Prerequisite: BCA 2310.

BCA 2610 Television Production I (JRN/SPH) 3 s.h.

Basic studio production techniques, including set-up and operation of cameras, microphones, recorders, lights, and control room equipment. Emphasis on hands-on team approach. *Recommended for BCA majors during their first year.*

BCA 2810 Field Production and Editing I (JRN) 3 s.h.

Introduction to basic concepts and practices of single camera field production, including directing theory, camera technique, sound, lighting, and editing. Prerequisite or corequisite: BCA 2610 or permission of instructor.

BCA 3030 Writing for Radio, TV, and Film (JRN) 3 s.h.

Theory and practice of writing scripts for radio, television, and film. Introduction to the techniques of storytelling, storyboarding, production tracking, and budgeting. Prerequisite: BCA 2610 or permission of instructor.

BCA 3440 Talent and Performance for Television and Radio (SPH) 3 s.h.

Instruction and practice in performing for radio and television, including voice, poise, and on-camera technique. Prerequisite: BCA 2610.

BCA 3610 Television Production II (JRN/SPH) 3 s.h.

Advanced studio production techniques, with emphasis on technical directing, camera techniques, lighting methods, and integration of field-produced tapes. Prerequisite: BCA 2610 or permission of instructor.

BCA 3750 Television News Reporting and Production (JRN) 3 s.h.

The concepts and practices of field and remote video production in electronic news gathering with emphasis on broadcast standards and ethical decision-making. Prerequisites: BCA 2610, 2810.

BCA 3820 Field Production and Editing II (JRN) 3 s.h.

Advanced field production and editing, with emphasis on visual and aural storytelling, creative camera and lighting techniques, shot continuity, audio, graphics, and special effects. This course has an academic service learning component. Prerequisite: BCA 2810.

BCA 3830 Post Production 3 s.h.

Advanced post-production tools, techniques, and special effects used in video and film editing to create a message, tell a story,

or elicit a feeling or emotion. Prerequisite: BCA 2810.

BCA 3910, 3920 Cooperative Education 1-4 s.h. (max. 4) Academically related work experience.

BCA 4010 Foundations of Mass Communication (JRN*/SPH) 3 s.h.

BCA 4630 Directing and Producing for Television (JRN) 3 s.h.

The theory and practice of producing and directing television programs. Students produce and/or direct a program that meets broadcast standards. Prerequisites: BCA 2810 and BCA 3610 and permission of instructor.

BCA 4810, 4820, 4830 Capstone in Film Production 2 s.h. each

Creating a film as part of a production team, using the knowledge, skills, techniques, and theories of the industry. Emphasis on the creative process, the kinds of decision that are made, and the strategies that are developed in the production of a film. The student's final product is submitted for external judging. This course runs three consecutive semesters with a grade given at the end of the final semester. Prerequisites: BCA 2610, BCA 2810, and permission of instructor. *No grade for BCA 4810 or BCA 4820 until the completion of BCA 4830.*

BCA 4910, 4920 Cooperative Education 1-4 s.h. (max. 4) Academically related work experience.

Business Administration (BUS)

BUS 1010 Contemporary Society and The Organization 3 s.h.

The dynamics of contemporary administrative, social and political influences on the organization; laws and regulatory agencies and their impact on the organization; career opportunities in the organization. *General elective or General Education only; does not apply toward Business majors.*

BUS 1100 Introduction to Sport Management (SM*) 3 s.h.

BUS 2030 Contemporary U.S. Culture: Personal Identity, Relationships, and Communication Patterns (ENG*) 1 s.h.

BUS 3060 Cultural Diversity: Living and Working in the Global Community (ENG*) 1 s.h.

BUS 3260 Business and Professional Writing (ENG*) 3 s.h.

BUS 3520 Industrial/Organizational Psychology (PSY*) 3 s.h.

BUS 3530 Foundations of e-Commerce 3 s.h.

The core concepts of e-commerce management and strategy. Emphasis on the decision-making process used to begin, develop, and run an e-business and an organizational model which shows the relationship between management and human resource administration, marketing, accounting, finance, statistical analysis, consumer demand, and technology. Prerequisites: CIS 2380, MKT 2440, MGT 2360.

BUS 3950 Business and Society 3 s.h.

A conceptual course which studies the historic and sociological relationship between business and society, the development of economic and management thought, and the social responsibility of business. Prerequisites: junior standing, MKT 2440 and MGT 2360.

BUS 4010 Cultures and Languages of the European Union 1951-2003 (ENG*) 1 s.h.

BUS 4020 Cultures and Languages of the European Union 2004-Present (ENG*) 1 s.h.

BUS 4030 Contemporary French Culture through Film (ENG*)	1 s.h.
BUS 4100 Legal and Ethical Aspects of Sport (SM*)	3 s.h.
BUS 4710-4750 Seminars	1-3 s.h. (max. 4 s.h.)
Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.	
BUS 4710 Brunch with an Expert Seminar	1 s.h.
BUS 4720 Literature Review Seminar	3 s.h.
BUS 4730 Research Seminar	3 s.h.
BUS 4740 General Topic Seminar	1-3 s.h.
BUS 4750 Leadership Seminar	1 s.h.
BUS 4910 Cooperative Education	1 s.h.
BUS 4920 Cooperative Education	1 s.h.

Business Law (BL)

BL 3330 Business Law I	3 s.h.
Study of the law and the legal process as it relates to business and society. Emphasis on the law of contracts, sales under the U.C.C., negotiable instruments, secured transactions, and agency. Basic concepts of the law of crimes and torts, including products liabilities and performing legal research. Prerequisite: MGT 2360 or consent of instructor.	
BL 3500 Employment Law	3 s.h.
Recognizing those organizational policies and practices that may put the firm's assets at risk. Emphasis on the statutory, case, and regulatory approaches which business must understand in order to be successful.	
BL 4330 Business Law II	3 s.h.
A continuation of Business Law 3330, with emphasis on the legal aspects of corporations and partnerships, property rights, debtor-creditor relations, and securities regulation. The general principles of governmental regulation of business and the legal aspects of international business transactions explored. Prerequisite: BL 3330.	

Catholic Integrated Core Curriculum (ICC)

See 2006-2008 Undergraduate Bulletin.

Chemistry (CHM)

CHM 1010 Introductory Principles of Chemistry	4 s.h.
A study of the basic principles of general chemistry and their applications including: systems of measurement; structure and properties of atoms; the periodic table; chemical symbols and their equations; stoichiometry; introduction to chemical bonding; solutions; acids, bases, and salts; and special topics as nuclear and environmental chemistry. Lecture 3 hours, recitation 1 hour, laboratory 2 hours. Prerequisite: one year of high school algebra or MTH 1040 with grade of C (2.0) or better. (May be used to satisfy the physical science general education requirement with laboratory and the chemistry prerequisite for CHM 1110. Does not apply toward Chemistry major or minor.)	
CHM 1110 General Chemistry I	4 s.h.
Principles of chemistry, including atomic structure and periodicity, chemical bonding, stoichiometry, gas laws, solution concepts, acid-base theory, redox processes, and equilibrium. Lecture 3 hours, laboratory 3 hours. Prerequisites: one year of high school chem	

istry or CHM 1010 with grade of C (2.0) or better; one year of high school algebra or MTH 1040 with grade of C (2.0) or better. Two years of high school algebra highly recommended, or MTH 1040 and 1050 with grades of C (2.0) or better.

CHM 1120 General Chemistry II	4 s.h.
Principles of thermodynamics, kinetics, equilibrium systems, proton transfer, electrochemistry, and nuclear chemistry. Laboratory projects related to each major subject area. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHM 1110 or equivalent; prerequisite or corequisite MTH 1060 or 1210 or equivalent.	
CHM 1610 Introduction to Life Chemistry	4 s.h.
Integrated organic and biochemical principles related to normal functioning of the human body. Lecture 3 hours, laboratory 3 hours. Prerequisite: high school chemistry with graduation within the past two years, or CHM 1010 or CHM 1110 within the past two years, with a grade of C (2.0) or better, or chemistry placement test. (Does not apply toward chemistry major or minor.)	
CHM 2210 Organic Chemistry I	4 s.h.
Structure and classification of compounds of carbon, with stress on the aliphatics; IUPAC nomenclature; properties, characteristic reactions of the common functional groups, especially of the oxygen functions; concepts of stereochemistry; introduction to mechanisms; stress on Bronsted and Lewis acid/base processes. Laboratory exercises directed to demonstration of mechanistic processes. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHM 1110 or equivalent.	
CHM 2220 Organic Chemistry II	4 s.h.
More extensive study of reaction mechanisms; aromatics; spectroscopy; organometallics. Laboratory exercises directed to the systematic identification of organic functional groups, spectroscopy, and gas chromatography. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110 and 2210.	
CHM 3310 Quantitative Analysis	4 s.h.
Theory and techniques of classical quantitative analysis, including acquisition and evaluation of analytical data from gravimetry, titrimetry, potentiometry, and spectrophotometry techniques. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 1120, 2210, MTH 1210 or equivalent.	
CHM 3510 Advanced Inorganic Chemistry	4 s.h.
Descriptive chemistry of the representative elements, transition metal complexes and organometallic compounds; ligand field theory, molecular orbital and valence bond theories, symmetry and group theory, nuclear chemistry. Prerequisites: CHM 1110, 1120, MTH 1210 or equivalent.	
CHM 3610 Biochemistry I	4 s.h.
Principles of biochemistry; major metabolic and biosynthetic pathways; structure and conformation of biological molecules and their molecular biology. Laboratory exercises in enzyme kinetics, electrophoresis, chromatography, and DNA isolation and manipulation. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 2210.	
CHM 3620 Biochemistry II	4 s.h.
Advanced treatment of modern topics, including DNA structure and function; gene control; recombinant techniques; and newer techniques of protein design and engineering. Laboratory exercises in molecular cloning, transformation, DNA transfer techniques, immunoprecipitation, and mutagenesis studies. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 2210, and 3610.	
CHM 3630 Clinical Chemistry I (MTE*)	3 s.h.
CHM 3650 Clinical Chemistry II (MTE*)	3 s.h.

CHM 4410 Physical Chemistry I 4 s.h.
Kinetics, mechanisms, rate laws, properties of solids, liquids, and gases; kinetic theory of gases, phase rules, thermodynamics, equilibria, chemical activity, and electrochemistry; introduction to statistical mechanics. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 1120, 2210; MTH 2510, 2520; PHY 2530, 2540.

CHM 4420 Physical Chemistry II 4 s.h.
Atomic and molecular structure, quantum theory and mechanics, analytical spectroscopy, selection rules, photochemistry. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 1120, 2210, 4410; MTH 2510, 2520; PHY 2530, 2540.

CHM 4510 Instrumental Analysis 4 s.h.
Theory and techniques of modern instrumental analysis including UV, visible, and IR spectrophotometry; NMR, EPR, and mass spectroscopies; electrochemistry; chromatography including HPLC; other current topics. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 1120, 2210; MTH 1210 or 2510 and 2520; PHY 2530, 2540.

CHM 4630 Forensic Chemistry (FOR*) 3 s.h.

CHM 4900 Problems in Chemistry 1-4 s.h. (max. 4 s.h.)
Advanced study in a special area of interest in laboratory or library research studies. Prerequisite: recommendation of major advisor.

CHM 4950 Senior Seminar 2 s.h.
Preparation and presentation of a scientific paper. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Child Development (CD)

CD 2160 Child Development and Guidance (FCS) 4 s.h.
Growth and behavior of a child from the prenatal stage through early childhood as well as guidance techniques for each stage of development.

CD 2610 Infant and Toddler Development, Care Giving, and Curriculum Planning 1 s.h.
The various aspects of the development of infants and toddlers with special focus on attachment, perception, motor skills, language, cognition and brain development, emotions, and social skills. The essentials of infant and toddler caregiving. Emphasis is placed on the significance of parent and caregiver relationships, the physical and social environment, as well as curriculum planning for play and caregiving times for infants and toddlers.

CD 2650 The Role of Content in Early Childhood Curriculum: Art, Music, Play, Movement, Science, and Mathematics 4 s.h.
The elements of art, music, creative play, movement, science, and mathematics in curriculum planning. Creative activities in these curriculum areas based on the developmental needs of children birth to age 8. Emphasis placed on the integration of these content areas into the daily or weekly plans for children's learning in the affective, cognitive, and psychomotor domains. Prerequisite: CD 2160

CD 3100 Language Development and Language Arts 3 s.h.
The development of the language of a child from birth through elementary school. Application of linguistic theory to literacy and language arts education, including an overview of structural and transformational linguistics and its impact on oral and written communication, and an exploration of the theory and techniques of listening, speaking, and writing effectively in the English language. Prerequisite: ENG 1010.

CD 3160 Principles of Administration and Organization of Early Childhood Programs 3 s.h.
Basic processes of administration including planning, organizing, supervising, assembling resources, accounting and specific administrative skills required by child care center administrator. Prerequisite: experience in child care and planning.

CD 3580 Developing Curriculum for Early Childhood 3 s.h.
Study of how to design curriculum and the environment to promote the growth in the social/emotional, cognitive, and psychomotor domains of the preschool child. Prerequisite: CD 2160, CD 2650, CD 3100. Corequisite: CD 3930.

CD 3930 Preschool Practicum 1-2 s.h. (max. 2 s.h.)
Taken concurrently with CD 3580: the field experience for observing, planning, and practicing strategies that are learned in CD 3580. Prerequisites: CD 2160, CD 2650, CD 3100, CD 3580.

CD 4100 Philosophies in Early Childhood Education 3 s.h.
Examination of contemporary early childhood care and educational practices. Theoretical foundations for early childhood curricula.

CD 4130 Parents and Teachers - Partners in Education (EDU) 3 s.h.
Information and strategies that can be utilized by teachers to aid parents to work in partnership with schools to promote the cognitive, affective, and psychomotor development of their children.

CD 4160 Assessing Children's Behaviors 2 s.h.
A study of the purposes for assessing children's behavior and the development of skills required for evaluating behavior. Emphasis placed on preparing reports for parents and institutions. Prerequisites: CD 2160, CD 2650, CD 3100, CD 3580.

CD 4500 Issues Challenging Children and Families (FCS) 3 s.h.
A survey of issues that present challenges to children and families. Students learn how current societal factors present stress to the family as it seeks to nurture the emotional/social and cognitive development of children. Assessment of community resources available for families.

CD 4700 Directed Teaching: Early Childhood 3 s.h.
Supervised teaching in a K-3 school setting. 180 clock hours over 12 weeks required. Prerequisite: approval of advisor and admission to directed teaching. Note: the Early Childhood directed teaching application form is different from the College of Education directed teaching application form. The same deadlines for submission apply to both applications.

CD 4810 Directed Teaching Seminar: Early Childhood 1 s.h.
Practicum issues and the application of child management strategies in the early childhood setting.

CD 4920 Directed Teaching Seminar: Child Development 1 s.h.
The forum to reflect upon and discuss the student's practicum/directed teaching experiences. Introduction to action research as a tool for self-reflection and continued professional development.

CD 4930 Directed Teaching: Child Development 2-4 s.h. (max. 4 s.h.)
Supervised teaching in a pre-K setting. 90 clock hours required for 2 s.h. of credit and 180 hours required for 4 s.h. of credit. Prerequisite: approval of advisor. *Observe posted deadlines for submission of application forms for directed teaching.*

CD 4950 Seminar (FCS) 2 s.h.
In-depth consideration of issues in a related field; integration and verification of exit-level competencies.

Chinese

CHN 1010 Beginning Mandarin Chinese I 3 s.h.

Introduction to speaking, listening, and reading in basic Mandarin Chinese, with the emphasis on speaking and listening. Students are expected to express the sound system (pinyin), engage in daily conversation, and use basic sentence patterns, and to learn to recognize approximately 100 Chinese written characters. Analysis of aspects of Chinese culture.

CHN 1020 Beginning Mandarin Chinese II 3 s.h.

Practice in Mandarin Chinese speaking, listening, and reading to a high beginning level, with emphasis on speaking and listening. Learning to recognize an additional 100 Chinese written characters. Analysis of aspects of Chinese culture. Prerequisite: CHN 1010.

CHN 1100 Mandarin Chinese for Business 3 s.h.

Development of business communication skills in Mandarin Chinese, including the effective use of: industry and workplace-specific vocabulary; expressions; and business-oriented situational dialogues. The comprehension and practice of basic social norms and modes of interaction in China. Assumes no prior background in Mandarin Chinese.

CHN 2010 Intermediate Mandarin Chinese I 3 s.h.

Developing proficiency in spoken and written Mandarin Chinese to a low intermediate level. Reading and writing of Chinese characters emphasized. Analysis of aspects of Chinese culture. Prerequisite: CHN 1020.

CHN 2020 Intermediate Mandarin Chinese II 3 s.h.

Developing proficiency in spoken and written Mandarin Chinese to an intermediate level. Emphasis on reading and writing. Analysis of aspects of Chinese culture. Prerequisite: CHN 2010.

Computer Information Systems (CIS)

For related course work on a professional level, see listings under Management Information Systems (MIS).

CIS 2250 Computer Fundamentals 2 s.h.

Introduction to the fundamentals of computers for the non-technical person. Study of the operating functions of both the hardware and software components of an information system. Emphasis on hands-on experiences with word processing, spreadsheet, and database management systems. Study of the evolution, application, and ethical aspects of computer systems. *No credit toward majors in business or management information systems.*

CIS 2380 Introduction to Computers 3 s.h.

Study of the evolution of computers and the operating functions of the hardware, systems software, application software, data communications, and ethics of data storage and retrieval; exploration of the integration and application of information processing in the business environment and in the global society; hands-on experience with word processing, electronic spreadsheets, graphics, database management, and electronic mail.

Computer Science (CSC)

CSC 2010 Web Fundamentals 3 s.h.

Designed for students who already have an adequate knowledge of computers and such basic applications as word processing, spreadsheets, databases, and presentation software. Covers Internet applications, web searching, and a comprehensive introduction to HTML and web page design, including the use of commercial web

authoring software. *May be taken to satisfy the Goal 4.B. Computer Literacy requirement.*

CSC 2080 Computer Science I 3 s.h.

Topics include fundamentals of computation and algorithmic problem solving, data types, procedures, control structures, arrays, and applications. The course utilizes the C/C++ high-level programming language. Prerequisite or corequisite: CSC 2010 or consent of instructor. *The first computer science course taken by students in mathematics and science, as well as by those wishing to concentrate in computer science.*

CSC 2250 JavaScript Programming 3 s.h.

Designing and writing programs using the JavaScript language, which is accessible to students with no prior programming experience. Emphasis is placed on devising modular programs that are easy to read and modify. Topics include structured programming concepts, variables, control structures, functions, arrays, and JavaScript operators, objects, and event handlers. The JavaScript programs are used to create dynamic HTML web pages.

CSC 2350 Web Programming 3 s.h.

Students are introduced to client-side and server-side programming languages such as JavaScript and Perl. Students write programs to process and validate HTML forms. Prerequisites: CSC 2080.

CSC 2480 Computer Science II 3 s.h.

A continuation of Computer Science I. Refining programming skills in the C++ high-level programming language. Emphasis placed on object-oriented programming, covering topics such as classes, objects, instances, inheritance, etc. Other topics include abstract data types, pointers, recursion, searching, and sorting. Prerequisite: CSC 2080

CSC 2910 Cooperative Education in Operations 1 s.h.

Cooperative education experience with emphasis on computer operations. Non-lecture based course designed to enable students to gain valuable on-the-job work experience. Prior to registration, student must obtain signature of advisor. Prerequisites: consent of advisor.

CSC 3010 Numerical Analysis for Computer Science 3 s.h.

Study of numerical methods in the solution of mathematical problems, integration, differentiation, curve construction and fitting, interpolation, and extrapolation. Introduction to numerical computer algorithms. Prerequisites: CSC 2080.

CSC 3030 Operating Systems 3 s.h.

Focuses on the major components of a computer operating system and the general operation of these components. Basic concepts include: memory management, processor management, processes, communication and synchronization, shared resources, resource allocation, device management, file management, and security issues. Prerequisites: CSC 2480

CSC 3050 Computer Architecture 3 s.h.

Study of: digital logic circuits and their components, numeric and character data representation within computer memory, instruction formats and addressing modes, register transfer and micro-operations, micro-programmed control, the differences between CISC and RISC architectures, and pipelined and vector processing. Prerequisites: CSC 2480 and MTH 2510

CSC 3280 Analysis of Algorithms 3 s.h.

The study of data structures and their relationship to algorithms. Concepts studied include: algorithm and data abstraction, analysis of both iterative and recursive algorithms to determine time and space complexity, and various sorting, graph, and hashing algo-

rithms. Students design programs using the C++ or other object-oriented programming language to study algorithms and their application utilizing various data structures such as lists, queues, stacks, and trees. Prerequisites: CSC 2480 and MTH 2510.

CSC 3290 Programming Language Concepts 3 s.h.

Focuses on the study of programming languages. Topics include the history of programming languages, virtual machines, the representation of data types, sequence and data control, type checking, memory management, programming language semantics, and parsing. Several different programming languages are compared including C, Fortran, Pascal, Ada, and Lisp. Prerequisites: CSC 2480.

CSC 3350 Java Programming 3 s.h.

Focuses on developing Java applications and applets for the Internet. Basic programming concepts studied include: control structures, arrays, methods, strings, and objects. Advanced topics such as graphics, user interface components, exception handling, multi-threading, multimedia, and streaming applications are also covered. Prerequisites: CSC 2480

CSC 3490 Artificial Intelligence 3 s.h.

Introduction to a wide range of issues and methods in artificial intelligence. Topics covered include: reasoning and problem solving, heuristic search, game playing, knowledge representation, natural language processing, logic, and expert systems. Students are also introduced to the LISP programming language. Prerequisites: CSC 3290.

CSC 3910 Cooperative Education in Software 1 s.h.

Cooperative education experience with emphasis on computer programming or software engineering. Non-lecture based course designed to enable students to gain valuable on-the-job work experience. Prior to registration, student must obtain signature of advisor. Prerequisites: consent of advisor.

CSC 4130 Language Theory 3 s.h.

A study of regular languages, grammars and expressions, finite-state automata and their relationship to regular languages, context-free languages and grammars, and language recognition with stack machines and parsers. Course includes introduction to properties of formal languages, computability, undecidability, and computational complexity. Prerequisites: CSC 329

CSC 4850 Seminar: Computers and Society 3 s.h.

A research and seminar course. Students are expected to do research, form opinions, and express and defend those opinions in classroom discussions on the various topics covered by the course. Topics include the study of the positive and negative impacts of computers in society related to areas such as the Internet, automation, robotics, artificial intelligence, computer crime, computer ethics, and computer professionalism. Prerequisites: Senior status and major in Computer Science

Criminal Justice (CJ)

CJ 1020 Introduction to Criminal Justice 3 s.h.

An overview of the criminal justice system in the United States. The history of law enforcement; the political, sociological, and philosophic background of police functions, the courts and corrections system; constitutional problems as they relate to the police function; and the use of recent technology in criminal justice is explored.

CJ 1110 Spanish for Law Enforcement (SPA*) 1 s.h.

CJ 1210 Introduction to Corrections 3 s.h.

An overview of the post-correctional process as a function of the criminal justice system in contemporary society; the devel-

opment of correctional philosophy, theory, history and practice; a description of institutional operation, programming and management; special populations; the effects of institutionalization upon individuals; alternatives to incarceration; survey of career opportunities. Prerequisite: CJ 1020.

CJ 1240 Introduction to Private Investigations 3 s.h.

An overview of the private investigation industry, including but not limited to employment opportunities, history/evolution, methods and management of private investigation, sources of information, investigative technology, and ethical and public policy considerations related to private investigations.

CJ 1250 Introduction to Private Security 3 s.h.

An introduction to the historical, philosophical, and legal framework for security operations. An overview of the private security industry and analyzes specific processes and programs utilized in providing security. The role of private security in work place violence prevention and theft protection in retail establishments.

CJ 1550 Police Process and Community Relations 3 s.h.

An overview of the police function and responsibility at the local, state and federal level. Examination of the philosophy, history, character, structure, function, and complexity and limitations imposed on law enforcement in a democratic society. Police operations examined relative to effectiveness in crime control, delivery of service, and order maintenance. Prerequisite: CJ 1020.

CJ 2010 Criminal Justice Organization and Administration 3 s.h.

Organization and management of the various criminal justice agencies through the United States. Includes systems of management, substance abuse as a management problem, and systems analyses and their relationships.

CJ 2350 American Judicial Process (PSC) 3 s.h.

Analysis of the American state and federal court systems; history, traditions, and philosophy underlying the American system of justice; legal systems and law; court structures and roles: judges, prosecutors, attorneys, litigants; and the adjudication process: arrest to arraignment, trials, juries, and sentencing.

CJ 2400 Interviewing and Investigative Report Writing 3 s.h.

The art of interview and interrogation and the basic skills that are necessary for the documentation of information that is obtained from a wide variety of sources.

CJ 2650 Criminal Law 3 s.h.

History, purposes, and philosophy of criminal law, local, state, and federal law; development, application, and rights of the offender.

CJ 2910, 3910, 4910 Practicum/Cooperative Education in Criminal Justice 3, 3, 3 s.h.

Internship in an approved criminal justice setting designed to provide opportunities to synthesize theory with practice. Laboratory 32 hours for each semester hour, available for cooperative education.

CJ 3010 Basic Criminal Justice Training 3 s.h.

Credit awarded to those who have successfully completed an approved Michigan Regional Police Academy, or equivalent CJ instruction.

CJ 3020 Field Experience 3 s.h.

Credit awarded by the chairperson for one year full-time experience in an appropriate area of the criminal justice system.

CJ 3050 Criminal Procedures (FOR/LAW) 3 s.h.

Procedural law for law enforcement officers. Law of arrest, evidence, and search and seizure.

- CJ 3110 Criminal Investigation (FOR)** 3 s.h.
Basic principles and procedures of criminal investigation; conduct at crime scene; search, collection and preservation of evidence; interviewing; and methods used in crime laboratories.
- CJ 3210 Principles of Criminology (FOR/SOC)** 3 s.h.
Study of the incidence, type, causes, and theories of adult deviant behavior. Emphasis is placed upon current crime trends and statistics and the processes involved in dealing with crime.
- CJ 3230 Juvenile Justice (SOC)** 3 s.h.
Theories of causation and prevention of delinquency; role of the courts, policy prevention programs, institutions in the control, and prevention of juvenile delinquency.
- CJ 3500 Homeland Security and Terrorism (EM)** 3 s.h.
Examination of the nature of the threat to the United States and how America is responding to the danger of terrorism, international and domestic. The policies, principles, strategies, organizations, and programs that are responsible for protecting the homeland. The efforts of the federal government, state, and local governments, as well as business and private citizens, are explored. Prerequisite: CJ 1020 or permission of instructor.
- CJ 3550 Parole and Probation** 3 s.h.
Examination of the history and philosophy of probation, aftercare, parole, and other community-based programs for juvenile and adult clients; function and operation of parole authorities; statutory authorization; case law; current practices and trends. Prerequisites: CJ 1020 and 1210.
- CJ 3820 Forensic Psychology (PSY*/FOR)** 3 s.h.
- CJ 4050 Constitutional Law (PSC/LAW)** 3 s.h.
Introduction to constitutional law, political theory. Historical examination of the major Supreme Court decisions which have contributed to contemporary judicial interpretations of the Constitution.
- CJ 4110 Ethics in Criminal Justice** 3 s.h.
An examination of the multitude of ethical dilemmas encountered in the criminal justice system. Ethical issues inherent in a variety of practical situations identified and discussed. Focus on problem solving strategies, interpersonal skills, and professional considerations relevant to criminal justice practitioners. Course discussions and group work provide a foundation for ethical decision-making related to policing, the courts, corrections, interpersonal relations, and diversity.
- CJ 4120 Organized Crime and Gangs in America** 3 s.h.
An exploration of the history, scope, and methods of controlling organized crime and street gangs in America with emphasis on local, regional, and statewide crime control efforts. The social implications of both organized crime and gangs. Research and discussion of federal and state laws aimed at curbing this type of crime.
- CJ 4140 Drugs, Crime and the Justice System** 3 s.h.
Study of issues and problems relating to drug and alcohol abuse, impact of substance use on individual health and societal progress, identification and classification of abused drugs, problems faced by law enforcement efforts to control.
- CJ 4230 Homicide Investigation (FOR)** 3 s.h.
Study of many facets which comprise a thorough, sound, and reliable homicide investigation; inquiry into new investigative techniques as well as a review of State laws concerning homicide. Consideration of case preparation, warrant writing, arrests, arraignment, and preliminary examinations.

- CJ 4750 Special Topics in Criminal Justice** 1-3 s.h. (max. 9 s.h.)
A specialized course dealing, each time it is scheduled, with some particular aspect of criminal justice not usually included in other criminal justice course offerings. Examination of contemporary issues, problems, present status, future development, and the criminal justice response to a specific problem.
- CJ 4950 Criminal Justice Seminar** 3 s.h.
Capstone course providing a critical analysis of contemporary criminal justice practices and procedures, current issues, trends, new programs, and court decisions affecting the criminal justice system. Topics such as multiculturalism, ethics, corruption, crime, civil/criminal liability, victimology, and public policy are considered. Prerequisite: senior standing and departmental approval.

Earth/Space Science (ESS)

- ESS 2160 Earth Science** 4 s.h.
Encompasses the rocky surface of our planet as related to the earth's mineral and energy resources, oceans, climate, interaction with the sun, history as a member of the solar system, and fate in the hands of humanity. Includes laboratory. *Interdisciplinary course designed for General Science, Integrated Science, and non-science majors.*
- ESS 3030 Oceans: Our Continuing Frontier** 4 s.h.
Introduction to the whole range of human involvement with the sea, emphasizing awareness of and possible solutions to technological problems inherent in exploring the sea. *Interdisciplinary course designed for General Science, Integrated Science, and non-science majors.*
- ESS 3260 Meteorology** 3 s.h.
Introduction to the fundamentals of weather and climate: understanding of the various atmospheric phenomena that interact to produce daily weather occurrences and global climate patterns; meteorological phenomena, and issues involving hurricanes, tornadoes, thunderstorms, floods, ozone depletion, potential global warming, and growing environmental concerns.
- ESS 3290 Principles of Astronomy** 4 s.h.
Provides a comprehensive introduction to astronomy. Topics include the solar system, stars, galaxies, cosmology, and history of astronomy. Astronomical laboratory investigations are part of the course. *Interdisciplinary course designed for non-science majors and for majors in General and Integrated Science.*

Economics (ECN)

- ECN 2710 Economics for Human Services** 3 s.h.
A survey of the discipline of economics with special reference to a market-driven economy. Attention given to economic policy in relation to social issues and problems, including government and the quality of life, distribution of wealth and income, unemployment, poverty, the disadvantaged, respect for the law, public health, and aid to the Third World. *(No credit for School of Business majors.)*
- ECN 2720 Principles of Microeconomics** 3 s.h.
Theories of production and cost, demand, supply, competition, consumer behavior, and distribution of income. Prerequisite: MTH 1050.
- ECN 2730 Principles of Macroeconomics** 3 s.h.
Measurement and determination of economic activities and development, aggregate income, and employment. Emphasis on consumption, monetary policy, fiscal policy, taxes, government, investment, and expenditures. Prerequisites: ECN 2720 and MTH 1050.

ECN 3940 Economic Geography 3 s.h.
 Geography from an economic perspective: locations and locational changes in primary, secondary, and tertiary production services; a comparative analysis of global demography; role and rise of the city and the metropolis; effects of technology; nations and regional and strategic political and commercial alignments and realignments; natural and human resources; the less-developed, more-developed, and developing worlds; “core” and “periphery;” multinational corporations and the “global village.” Prerequisites: ECN 2720, INB 3140, MGT 2360, and QS 3550.

ECN 4510 Economic and Business History of the United States (HIS*) 4 s.h.

Education (EDU)

EDU 1010 Classroom Practicum for Prospective Teachers 3 s.h.

Provides students considering teaching as a career with structured experiences in K-12 classrooms. Students are introduced to state and national standards for the teaching profession and begin development of a professional proficiency portfolio.

EDU 2000 Introduction to Professional Education Experiences 3 s.h.

Introduces the student to the realities of the teaching profession, the structure and operation of schools, current educational issues and trends, and the foundations of education. Coursework includes observation and participation in classroom settings. Lecture 2 hours, laboratory 1 hour. Prerequisite: PSY 1010 and ENG 1020. *Note: during EDU 2000, the student must complete and sign a Consent for Criminal Background Check. See advisors in the Education Office for a sample form.*

EDU 2010 Introductory Education Field Experience 1 s.h.

Observations and participation in classroom settings. Designed for students who have completed an introductory education course equivalent to EDU 2000, but do not have the required field experience.

EDU 2330 Learning and Teaching Number Concepts (MTH*) 3 s.h.

EDU 2340 Learning and Teaching Geometric and Statistical Concepts (MTH*) 3 s.h.

EDU 3020 Program Planning for Older Adults (GER*) 3 s.h.

EDU 3070 Social Studies Foundations (SSC*) 3 s.h.

EDU 3090 Music for the Classroom Teacher (MUS*) 2 s.h.

EDU 3120 Educational Psychology 4 s.h.

Focus on the learning process: role of the teacher in learning; efficiency of learning as it is affected by the developmental processes; psychological principles that are central to the learning process and their relationship to the teaching situation; variables in learning; and evaluation of the outcomes of learning. Application of learning theory and multicultural concepts in a field-based context. Includes a 1 hour field experience (30 clock hours). Prerequisites: PSY 1010 and EDU 2000.

EDU 3130 Field Experience for Educational Psychology 1 s.h.

Observations and participation in classroom settings. Designed for students who have completed an educational psychology course equivalent to EDU 3120, but do not have the required field experience.

EDU 3160 Art for the Elementary School Teacher (AED*) 2 s.h.

EDU 3210 Theory and Principles of Reading Instruction (elementary and K-12) 3 s.h.

Study of theory and process in developmentally-appropriate, evidenced-based reading/writing instruction, including language and literacy acquisition, word recognition, comprehension and fluency, vocabulary, methods of instruction and assessment, program development, and planning for differentiated instruction. Prerequisites: PSY 1010, EDU 2000. Prerequisite or corequisite: EDU 3120.

EDU 3300 The Exceptional Learner in the Classroom 3 s.h.

To assist future teachers in meeting the diverse needs of the exceptional child in the general education classroom. Prospective teachers develop a working knowledge of the historical perspective of present special education programs, the effects of litigation, and the continuum of special education services. Emphasis on the process of identifying, and individualizing instruction for, students with special needs. Also emphasis on the concept of collaboration with school personnel, parents, and community resources. Nine clock-hour practicum required.

EDU 3350 Language Arts and Linguistics Foundations 3 s.h.

Application of linguistic theory to language arts education, including an overview of structural and transformational linguistics, and its impact on oral and written communication; techniques of handwriting, and an exploration of the theory and techniques of listening, speaking, and writing effectively in the English language. Prerequisite: EDU 3210.

EDU 3460 Instructional Media 2 s.h.

Use of media and technology in the classroom to enhance teacher productivity and student learning. Development of objective-based lesson plans using technology to support a constructivist approach to establishing a learning environment. Demonstration of the ability to use commercially available software to prepare classroom presentations and instructional web sites. Issues related to “fair usage” and copyrights addressed.

EDU 3730 Science Foundations I: Chemistry and Life Science (NSC*) 4 s.h.

EDU 3740 Science Foundations II: Earth Science, Physics, and Astronomy (NSC*) 4 s.h.

EDU 4120 Classroom Assessment 2 s.h.

Provides key theoretical underpinnings to examine informal and formal classroom assessment procedures. Students practice techniques, gather data, apply and evaluate assessment procedures, and produce assessment records based on sound principles. Prerequisite: EDU 3120 and admission to the Teacher Education Program.

EDU 4130 Parents and Teachers - Partners in Education (CD*) 3 s.h.

EDU 4140 Conflict Management in the Classroom, Home, and Job (SOC*) 1 s.h.

EDU 4210 In-Service Projects 1-4 s.h. (max. 4 s.h.)

Focus on new developments in education with practical implementation: open classroom concept, individual instruction, instructional technology, accountability, mainstreaming, multicultural education. Prerequisite: departmental approval. (May not substitute for a required course.)

EDU 4220 Reading in the Content Areas (elementary only) 3 s.h.

Study of the principles, techniques, and processes of evidence-based literacy instruction needed for students to be independent, strategic learners in the content areas taught in elementary and

middle school. Application of learned principles and practices to teaching situations through the tutorial field experience. Lecture 2 hours; laboratory 1 hour. Prerequisites: EDU 3120, EDU 3210, and admission to the Teacher Education Program.

EDU 4250 Literacy Education in the Secondary School 4 s.h.

Introduction to the theoretical foundation for teaching reading and writing as cognitive processes essential for higher cognitive thinking, critical literacy, and mastery of the content areas taught in middle schools and high schools. Emphasis is placed on the principles, techniques, and processes of evidence-based literacy instruction to enable students to be independent, strategic learners in the secondary schools. Application of learned principles and practices in a one-on-one teaching situation. Lecture 3 hours, laboratory 1 hour. Prerequisite: EDU 3120 and admission to the Teacher Education Program.

EDU 4310 MLPP Certification, Grades K-2 2 s.h.

Administering and analyzing Michigan Literacy Progress Profile (MLPP) assessments in order to determine implications for classroom instruction. Comprehensive case study administering the assessments to a grade K-2 child who is exhibiting difficulty with literacy. Students must make their own arrangements for weekly assessment of their child (approximately 90 minutes per week for 3-6 weeks). Prerequisite: completion of the MLPP units included within EDU 3210, 3350, and 4220. *Students who complete the MLPP units of all three courses (EDU 3210, 3350, 4220) and complete EDU 4310 receive MLPP K-2 certification. Students may enroll concurrently in EDU 4310 and EDU 4320.* Prerequisites: EDU 3210, 3350, and 4220.

EDU 4320 MLPP Certification, Grades 3-5 2 s.h.

Administering and analyzing Michigan Literacy Progress Profile (MLPP) assessments in order to determine implications for classroom instruction. Comprehensive case study administering the assessments to a grade 3-5 child who is exhibiting difficulty with literacy. Students must make their own arrangements for weekly assessment of their child (approximately 90 minutes per week for 3-6 weeks). Prerequisite: completion of the MLPP units included within EDU 3210, 3350, and 4220. *Students who complete the MLPP units of all three courses (EDU 3210, 3350, 4220) and complete EDU 4320 receive MLPP 3-5 certification. Students may enroll concurrently in EDU 4310 and EDU 4320.* Prerequisites: EDU 3210, 3350, and 4220.

EDU 4380 Literature for Young Adults (ENG*) 4 s.h.

EDU 4400 Behavior Management in the Classroom 2 s.h.

Focus on understanding the role of the teacher in facilitating change in the classroom; the nature of, and factors affecting student behavior; the investigation and evaluation of classroom management models; and strategies for handling disruptive student behavior, with emphasis on prevention of classroom problems. Application of classroom management strategies, anti-bullying and classroom/student interventions in actual problem situations. Prerequisites: EDU 3120 and admission to the Teacher Education Program.

EDU 4430 Theory and Techniques of Instruction: Foreign Language (K-8) 2 s.h.

Theory of instruction, methods, and materials for foreign language in the elementary and middle school; observations of classroom procedures; and participation in simulation and micro-teaching. Emphasis on the application of effective instructional theory and practice, sound decision making, and multicultural education in a field-based context. Prerequisites: EDU 3120 and admission to the Teacher Education Program. Prerequisite or corequisite: EDU 4500.

EDU 4450 Foundations of Vocational Education 2 s.h.

Principles of vocational education; understanding the learning process in the vocational education classroom, particularly as applied to work-based learning; working with individual differences (developmental, cultural, motivational) as students are guided to in-

creasingly complex work-based learning. Prerequisite: EDU 3120 and EDU 3300, and admission to the Teacher Education Program.

EDU 4470 Theory and Techniques of Science Instruction: Elementary School 1 s.h.

Theories of instruction, methods, and materials for teaching science in the elementary school. Attention is focused on the special skills needed to manage science activities, including topics of safety and experimentation with live animals, the application of the scientific method to classroom inquiry and an awareness of social/economic impacts of science and technology. Lecture 1 hour. Prerequisites: EDU 2000, EDU 3120. Corequisite: EDU 4500.

EDU 4500 Theory and Techniques of Instruction: Elementary School (K-8) 4 s.h.

Theory of instruction, methods, and materials in the elementary school curriculum; observation of classroom practice and procedures; and participation in a field placement in which students gain experience in planning, teaching, and assessment. Emphasis on the application of effective instructional theory and practice for diverse student populations. Students develop lesson plans that integrate their major disciplines into a multidisciplinary curriculum unit. They demonstrate competence using a variety of lesson planning, teaching, and assessment strategies to address student needs and optimize student outcomes. Lecture 3 hours, laboratory 1 hour. Prerequisites: EDU 2000 and EDU 3120 and admission to the Teacher Education Program.

EDU 4510-4590 Theory and Techniques of Instruction: Major Field (Secondary) 4 s.h.

Theory of instruction, methods, and materials in the secondary subject-matter fields in which students expect to teach; observations of classroom procedures; and participation in a field placement in which students plan, teach, and assess student performance. Emphasis is on the application of effective instructional theory and practice for diverse student populations. Students develop unit plans within their disciplines that demonstrate their competence in lesson planning, while employing a variety of teaching and assessment strategies. Lecture 3 hours, laboratory 1 hour. Offered Fall only. Prerequisites: EDU 2000 and 3120 and admission to the Teacher Education Program.

EDU 4510 Theory and Techniques of Instruction: Art (K-12) 4 s.h.

EDU 4520 Theory and Techniques of Instruction: English and Communication Arts (6-12) 4 s.h.

EDU 4530 Theory and Techniques of Instruction: Foreign Language (6-12) 4 s.h.

EDU 4540 Theory and Techniques of Instruction: Vocational Family and Consumer Sciences (6-12) 4 s.h.

EDU 4550 Theory and Techniques of Instruction: Mathematics (6-12) 4 s.h.

EDU 4560 Theory and Techniques of Instruction: Music (K-12) 4 s.h.

EDU 4570 Theory and Techniques of Instruction: Natural Science (6-12) 4 s.h.

EDU 4580 Theory and Techniques of Instruction: Social Sciences (6-12) 4 s.h.

EDU 4590 Theory and Techniques of Instruction: Vocational Subjects (9-12) 4 s.h.

EDU 4630, Theory and Techniques of Instruction: Foreign Language (K-12) 2 s.h.

Theory of instruction, methods, and materials for foreign language in elementary, middle, and high schools; observations of classroom procedures; and participation in simulation and micro-teaching. Emphasis on the application of effective instructional theory and practice, sound decision making, and multicultural education in a field-based context. Prerequisites: EDU 3120 and admission to the Teacher Education Program. Prerequisite or corequisite: EDU 4500 or EDU 4530.05.

DIRECTED TEACHING

Applications for admission to Directed Teaching must be approved by the Teacher Education Committee. All candidates for initial teaching certificates must register for 8 s.h. of directed teaching and EDU 4810, Seminar: Directed Teaching, 1 s.h. Level-change candidates must register for a minimum of 4 s.h. of directed teaching.

EDU 4690 Directed Teaching: Middle School (5-9) 4, 8 s.h.
Observations and teaching in classroom situations and individual conferences.

EDU 4700 Directed Teaching: Elementary School (K-8) 4, 6, 8 s.h.
Observations and teaching in classroom situations; individual conferences and seminars.

EDU 4710-4790 Directed Teaching: Secondary School 4, 8 s.h.
Observations and teaching in classroom situations; individual conferences and seminars.

EDU 4710 Directed Teaching: Art (K-12) 4, 8 s.h.

EDU 4720 Directed Teaching: English and Communication Arts (6-12) 4, 8 s.h.

EDU 4730 Directed Teaching: Foreign Languages (6-12) 4, 8 s.h.

EDU 4740 Directed Teaching: Vocational Family and Consumer Sciences (6-12) 4, 8 s.h.

EDU 4750 Directed Teaching: Mathematics (6-12) 4, 8 s.h.

EDU 4760 Directed Teaching: Music (K-12) 4, 8 s.h.

EDU 4770 Directed Teaching: Natural Science (6-12) 4, 8 s.h.

EDU 4780 Directed Teaching: Social Sciences (6-12) 4, 8 s.h.

EDU 4790 Directed Teaching: Vocational/Technical (9-12) 4, 8 s.h.

EDU 4800 Foundations of Education 3 s.h.
Study of the scope and nature of education, primarily at the elementary and secondary levels, in the United States, as reflected in the historical, political, economic, sociological, and philosophical forces affecting the school and other social institutions, with emphasis on the origins and evolution of various current educational practices, policies, and issues. Prerequisites: EDU 2000 and 3120 and admission to the Teacher Education Program.

EDU 4810 Seminar: Directed Teaching 1 s.h.
Selected topics designed to orient students to the reality of teaching, to guide and support them during the intensive student teaching internship, and to address topics that relate to students' short-term interest in securing teaching positions and to their long-term career effectiveness. *To be taken concurrently with Directed Teaching.*

Emergency Management (EM)

EM 1010 Introductory Principles of Forensic Science (FOR*) 3 s.h.

EM 2010 Foundations of Emergency Management 3 s.h.
Philosophy and principles of emergency management, including homeland security, for private, public, and non profit sectors. Topics include planning, mitigation, response, and recovery procedures using the National Incident Management System and the Incident Command System.

EM 3010 Resource Allocation and Planning 3 s.h.
Study of the development and implementation of a comprehensive site emergency plan to protect the organization's people and property in an on-site emergency. Analysis of the roles that public, private, and non profit sectors have played in past incidents and how lessons learned from these incidents help an organization prepare for

future incidents. Emphasis on ethical issues regarding interaction among these four entities. Prerequisite: EM 2010.

EM 3020 Industrial Espionage and Operations Security 3 s.h.
Methods for the Emergency Manager to analyze and conduct risk assessments of technical and physical protection systems through the identification of current trends in information gathering techniques and the range of methods available to prevent, detect, and protect against, breaches of proprietary information and assets. Prerequisite: EM 2010.

EM 3310 Management of the Bereavement Process (HSP*) 3 s.h.

EM 3490 Psychology of Traumatic Experiences (PSY*) 1 s.h.

EM 3500 Homeland Security and Terrorism (CJ*) 3 s.h.

EM 4140 Proposal Writing and Grant Administration (GER*) 2 s.h.

EM 4510 Hazardous Materials I (FS/OSH*) 3 s.h.

EM 4520 Hazardous Materials II (FS/OSH*) 3 s.h.

EM 4950 Senior Seminar 2 s.h.
Preparation and presentation of a library research paper that integrates knowledge gained in the major discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Emergency Medical Technology (EMT)

EMT 1550 Basic EMT 1-10 s.h.
Experiential learning credits available to those who have current State of Michigan licensure. Application for credit is to be made through the Program Coordinator for Fire Science and Occupational Safety, Health, and Fire Science in the Department of Physical and Applied Sciences.

English (ENG)

ENG 1000 Writing Workshop 1-3 s.h. (max. 3 s.h.)
Individualized instruction for students developing college-level writing skills. Working with tutors in the Writing Center for a prescribed number of hours per week is a requirement for this course. May be repeated for a maximum of three semester hours. *(Does not apply to any major or minor in the English and Communication Arts department.)*

ENG 1010 College Composition I 3 s.h.
Study and practice of strategies for academic writing, with a focus on writing and reading descriptive, narrative, and expository essays. Emphasis on writing as a process. Introduction to information literacy. Prerequisite: placement by Madonna University Writing Assessment Program. *(Does not apply to any major or minor in the English and Communication Arts department.)*

ENG 1020 College Composition II 3 s.h.
Study and practice of strategies for academic writing, with a focus on writing and reading persuasive and argumentative essays. Continued emphasis on writing as a process. Development of information literacy skills, as applied to writing a substantial research paper. An exit portfolio, to be scored by at least two Composition instructors, is required for successful completion of the course. Prerequisite: ENG 1010 or placement by Madonna University Writing

Assessment Program. (Does not apply to any major or minor in English and Communications Arts department.)

ENG 1150 Writing Review 1-3 s.h. (max. 3 s.h.)

Individualized instruction for transfer students who would benefit from a review of college-level writing and research skills. Working with tutors in the Writing Center for a prescribed number of hours per week is a requirement for this course. May be repeated for a maximum of three semester hours. (Does not apply to any major or minor in the English and Communication Arts department.)

ENG 1320 Newspaper Reporting (JRN*) 3 s.h.

ENG 2030 Contemporary U.S. Culture: Personal Identity, Relationships, and Communication Patterns (BUS) 1 s.h.

A primer on American behavior and attitudes, focusing primarily on education, lifestyle, personal values, work ethics, communication, and interpersonal relationships. By learning why we behave the way we do, we become more patient and understanding in our interactions with foreign nationals we encounter at school, at work, or in social contexts.

ENG 2090 Approaches to Grammar 4 s.h.

A linguistics course providing an historical sketch of the development of the English language and treating the interplay between theory of language and approaches to the study of grammar. By analyzing English phonology, graphology, morphology, syntax, semantics, and pragmatics, the course shows the changing nature of language and emphasizes how that change is influenced by politics and culture. The effects of dialect, register, and genre on communication in English are explored. Applications to teaching grammar in elementary and secondary settings are examined.

ENG 2230 Ideas in World Literature 3 s.h.

Survey of Western civilization as expressed in major literary works which reveal the distinctive ideals, values, and attitudes of various eras; includes works outside the Western tradition produced during the same eras.

ENG 2440 Technical Writing 3 s.h.

Theory and application of technical writing principles, culminating in the preparation of a research paper. Topics discussed include: definitions, instructions, processes, computer graphics, and research strategies. Web site evaluation and research, along with writing for the Web, are covered. Course concludes with an oral presentation of research paper findings.

ENG 2550 Oral Interpretation of Literature (SPH*) 3 s.h.

ENG 2620 Language and Culture 3 s.h.

How and why people communicate in the ways they do. Habitual talking, listening, and writing behaviors of individuals and groups, as well as the influences of home, community, and culture on the language structures and language uses of individuals. Culture, as it influences linguistic preference, are considered, along with methods of semiotic and discursal analysis.

ENG 2950 Critical Writing and Literary Analysis 4 s.h.

A study and practice of the methods used to analyze the contents of a literary work; a review of major themes and schools of literary criticism. Prerequisite: ENG 1020.

ENG 3000 Children's Literature and Drama (SPH) 4 s.h.

Classical and contemporary writing for children; dramatization of stories. Selection of materials with reference to the interest, needs, and abilities of children. (NOTE: This course fulfills the upper-division literature General Education Requirement for students in the Elementary Provisional Certificate program only. Students who begin elementary certification and transfer out must fulfill Goal 3.C. with a course listed on page 54.)

ENG 3010 Major American Writers: Beginnings to 1900 4 s.h.

A study of those writers who expressed in distinctive styles the diverse elements of the American experience from early Amerindian folktales through the end of the nineteenth century, often including Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, and Douglass.

ENG 3020 Major American Writers: 1900 to Present 4 s.h.

Critical examination of major writers, poets, and dramatists who have explored the changing values and concerns of American society in the twentieth century; minority and ethnic perspectives are expressly noted.

ENG 3050 Creative Writing 3 s.h.

Critical study and practical application of the techniques of poetry, fiction, and drama, with emphasis on creative expression.

ENG 3060 Cultural Diversity: Living and Working in the Global Community (BUS) 1 s.h.

Study of the ways people of different nations work, live, communicate, and relate to each other, based on a working definition of "culture". *The course is an effective supplement to INB 4930. Students who have completed ENG 2620 do not receive credit for ENG 3060.*

ENG 3100 Advanced Composition 3 s.h.

Advanced study and application of the rhetorical elements of invention, form, and style in nonfiction writing. Emphasis on strategy and style in appealing to a variety of audiences. Class meetings include writers' workshop format. Prerequisite: ENG 1020.

ENG 3260 Business and Professional Writing (BUS) 3 s.h.

A study of the strategies and stylistic devices which lead to clear, concise, and complete business writing. Various types of business letters, memoranda, proposals, and reports are examined and developed. Prerequisite: ENG 1020.

ENG 3440 Advanced Technical Writing 3 s.h.

Application of technical writing principles to individual career demands. Analyses of case studies, with emphasis on appropriate writing and media strategies for the intended audience. Preparation of advanced documents. Introduction to on-line help software. Prerequisite: ENG 2440 or departmental approval.

ENG 3540 American Folklore and Literature 4 s.h.

Study and practice of the methods used to analyze folklore, examine folkloristics as a discipline, and explore the relationship between folklore and literature. Students read and write about works of American literature in which folkloric phenomena have been simulated and transformed by American writers for literary purposes, and complete a collection project.

ENG 3550 Women in Literature 4 s.h.

Study of representative prose and poetry by and about women which focuses on their search for independence and fulfillment.

ENG 3610 Major British Writers: Chaucer to Johnson 4 s.h.

A study of principal figures in British literature from the fourteenth through the eighteenth century; includes Chaucer, Spenser, Shakespeare, Donne, Milton, Swift, Pope, and Samuel Johnson.

ENG 3620 Major British Writers: Blake to Eliot 4 s.h.

An examination of major British authors from the Romantic period to the post World War I era; includes Blake, Wordsworth, Keats, Shelley, Coleridge, Byron, Tennyson, Browning, Dickens, George Eliot, Hardy, Conrad, Yeats, Joyce, and T.S. Eliot.

ENG 3710 Contemporary Literature 4 s.h.

A study of contemporary authors who may be classified as Modernist or Postmodern; figures may include principal ethnic and minority writers.

ENG 4010 Cultures and Languages of the European Union 1951-2003 (BUS) 1 s.h.

The cultures and languages of the original fifteen European nations, how each nation is distinct yet interconnected, and how, despite their differences, a new sense of a shared vision of Europe is emerging that will help define their goals for the future.

ENG 4020 Cultures and Languages of the European Union 2004-Present (BUS) 1 s.h.

The recent expansion of the European Union, the positive and negative impact of the expansion on the EU, as well as the mentality, expectations, and economic and cultural diversity that the new nations bring to the entity that is Europe.

ENG 4030 Contemporary French Culture through Film (BUS) 1 s.h.

A primer on French culture focusing primarily on the French education system, child rearing, lifestyle, personal values, work ethic, communication, and interpersonal relationships. Scenes from French films are used to demonstrate common French attitudes and behaviors.

ENG 4100 Approaches to Teaching Classroom Classics 1 s. h. each (max. 6 s.h.)

The Approaches to Teaching offerings examine fiction and non-fiction literature as appropriate and relevant works for study in elementary, middle, and/or secondary school classrooms. Featured authors and works vary by semester. *May be repeated for credit with new topic.*

ENG 4210 Time and Literature (HIS) 4 s.h.

Interdisciplinary analysis of a particular period, event, or personality in terms of the human dilemmas and choices which are confronted.

ENG 4230 Voices and Visions: Modern American Poets 4 s.h.

The lives and works of classic American modern poets, including Walt Whitman, Emily Dickinson, Wallace Stevens, Marianne Moore, William Carlos Williams, Elizabeth Bishop, and others, explored in relationship to our own lives and works. Emphasis on ways to appreciate and enjoy the art of poetry. Videos or DVDs from the Voices and Visions television series are an integral part of the course.

ENG 4240 Cultural Issues in Contemporary Literature and Film 1 s. h. each (max. 6 s.h.)

Interdisciplinary examinations of contemporary cultural issues through literature and film. *May be repeated for credit with new topic. Four completed offerings accumulate to meet Goal 3.C.*

ENG 4380 Literature for Young Adults (EDU) 4 s.h.

Study of genres and themes presented by contemporary writers of literature for young people: violence in society, search for identity, family life, friendship, historical fiction, poetry, short stories, adventure, and fantasy. Emphasis is given to methods of connecting young adult literature to the target audience. *NOTE: This course fulfills the upper-division literature General Education Requirement for students in the Secondary Provisional Certificate program only.*

ENG 4540 Classics of African-American Literature 4 s.h.

Focus on African-American literature in all three genres: prose, poetry, and drama. Course content includes significant African-American writers from the 18th-19th centuries (Wheatley, Douglass) but focuses primarily on 20th century works by Wright, Baldwin, Hansberry, Walker, Morrison, and others.

ENG 4550 Voices of Pluralism in American Literature 4 s.h.

Focus on minority literatures besides African-American literature. Course content includes, but is not limited to, Asian-American, Arab-American, Latino-American, and Native American literatures. Authors under study may include Tan, Kingston (Asian-American), Said (Arab-American), Rodriguez, Anzaldúa (Latino-American), Erdrich, Silko (Native American).

ENG 4750 Studies in Literature 4 s.h. (max. 8 s.h.)

Topics in literature vary on a semester basis. Seminar is required of English majors but is open to all students.

ENG 4950 Senior Seminar 3 s.h.

The capstone course for senior-level students in the Department of English and Communications Arts. Students construct portfolios of their academic and professional work in their respective programs of study, reconsider their liberal arts education, and conduct research on topics in their majors as part of an information literacy curriculum. In keeping with the need for technological literacy, students create electronic portfolios. *Must be taken in final twenty hours of the degree program.*

English as a Second Language (ESL)

ESL 1010 Orientation to Higher Education for the International Student 3 s.h.

Designed to provide first-time international students with knowledge about American university curricula, processes, and procedures. The curriculum spans an array of topics crucial to the academic success and emotional well being of the non native speaker who is unfamiliar with the expectations of American higher education. *This course substitutes for UNV 1010, Transition to Higher Education, in meeting graduation requirements.*

ESL 1130 Beginning ESL Reading and Writing 3 s.h.

Basic reading and writing course focusing on sentence level reading and writing. Includes grammar manipulation of simple sentences which are contextualized to integrate reading and writing.

ESL 1140 Beginning English Grammar 3 s.h.

An interactive approach to understanding the role of grammar in English communication. The fundamentals of English grammar such as parts of speech, simple verb tenses, questions, and negative forms.

ESL 1160 Beginning ESL Speaking and Listening 3 s.h.

Promotion and practice of production and comprehension of conversational and survival levels of communication. It is recommended that students take ESL 1130 and ESL 1160 simultaneously.

ESL 2130 Intermediate ESL Reading and Writing 3 s.h.

Expanding sentence structure and paragraph construction including unity, coherence, and transitional phrases. Readings from contextualized reading and writing practice.

ESL 2140 Intermediate English Grammar 3 s.h.

Development of existing knowledge of grammar structures and acquisition of new ones. Emphasis is on the use of simple and some complex verb tenses, as well as auxiliary and modal verbs. These and other grammar structures are practiced through the performance of common language functions such as making suggestions, requests, and invitations.

ESL 2160 Intermediate ESL Speaking and Listening 3 s.h.

Beginning formal speaking and sustained factual listening is experienced extensively. Short speeches videotaped, reviewed, and critiqued. Pronunciation practice is an integral part of the preparation for speech delivery. Colloquial versus formal language examined.

ESL 3060 Advanced English Pronunciation 3 s.h.

The tools to improve both the comprehension and the communication skills of English language learners. Students learn the basic components of English pronunciation: vowel and consonant sounds, identification of syllables, word stress, connected speech,

thought groups, intonation, rhythm, and stress patterns. Students are required to complete interactive listening exercises on CD and in the computer lab which are critiqued by the instructor.

ESL 3130 Advanced Reading and Writing 3 s.h.

Expanding the knowledge of organizational patterns used in writing compositions and paragraphs. Integrated readings serve as models for the principal parts of compositions, with stress on coherence and unity.

ESL 3140 Integrated English Grammar 3 s.h.

The study of English grammar as a developmental skill is presented by integrating reading and rhetoric to identify key structures and grammar rules that govern them. Focus on the formation and manipulation of clauses in complex sentences and the sequence of verb tenses across clauses.

ESL 3150 Advanced ESL Reading 3 s.h.

Reading strategies such as the SQ3R reading method introduced and practiced to prepare for the transition from ESL texts and literature to content-specific literacy and increased linguistic complexity.

ESL 3160 Advanced Speaking and Listening 3 s.h.

Continued development of conversational speaking and listening skills. Experience listening and speaking in conversational and academic settings. Video taped oral presentations given and critiqued using various topics encountered in general education courses.

ESL 4130 Advanced Academic Reading and Writing 3 s.h.

Special emphasis on reading unabridged academic texts with speed and accuracy. Essays in the reading segment serve as models for the writing component of the course. Extensive practice in rhetorical strategies and techniques and a review of appropriate grammatical structures and verb tenses. Preparation for ENG 1010, using the "process" approach to writing.

ESL 4140 Advanced English Grammar 3 s.h.

The study and analysis of the grammatical structures of English within contemporary literature and rhetoric. Theme-based grammatical presentation, inductive exercises, and common errors related to target structures are presented using authentic academic contexts.

ESL 4150 Advanced Academic Reading 3 s.h.

Authentic content-specific academic readings are used to focus on comprehension of difficult undergraduate level texts. Current articles of political, economic, and sociological importance, taken from journals and periodical literature, are read, analyzed, and written about. Linguistic morphology, such as stems and affixes, are identified and applied to facilitate increased reading speed and comprehension.

ESL 4160 Advanced Academic Speaking and Listening 3 s.h.

Designed to help advanced ESL students prepare for the demands of academic lecture comprehension and taking notes, predicting, evaluating, and organizing academic lectures. Formal speeches are practiced, video taped, and critiqued. A TV News production with student-generated segments, using a teleprompter, is performed in the Madonna University TV studio.

ESL 4230 Academic ESL Writing 3 s.h.

Focus on writing a research paper from organization to completion, with a segment on plagiarism. Both MLA and APA style are introduced, as are techniques on how to incorporate sources into the body of the paper. In addition to the research paper, students write abstracts, research proposals, and a reflection paper. All drafts and copies of courses are presented in a portfolio. *This course is considered to be the equivalent of ENG 1020, College Composition II. It therefore fulfills the General Education Requirement for English 1020.*

NOTE: UP TO 23 SEMESTER HOURS OF ESL COURSE WORK MAY BE USED TO SATISFY DEGREE REQUIREMENTS.

Environmental Science (ENV)

ENV 2930 Internship in Environmental Science 1-4 s.h.

Field placement in governmental, industrial, or academic settings that provide experience in environmental science issues, e.g., water, soil, sewer, and/or sediment testing, community cleanup, park management, animal shelter.

ENV 3210 Limnology: The Study of Lakes 3 s.h.

A study of the influences of physical, chemical, and biological factors on the structure and function of inland lakes and ecosystems. Prerequisite: 6 s.h. in Biology

ENV 3320 Environmental Analysis 4 s.h.

Application of spectrophotometric and field-kit methods in the elucidation of quantitative and qualitative data from soil, water, algae, invertebrates, plants, and fish collections. Lecture and laboratory. Prerequisites: CHM 1120, 2210, MTH 1210 or equivalent

ENV 3930 Internship in Environmental Science 1-4 s.h.

Field placement in governmental, industrial, or academic settings that provide experience in environmental science issues, e.g., water, soil, sewer, and/or sediment testing, community cleanup, park management, animal shelter.

ENV 4700 Environmental Investigation 1-4 s.h. (max. 4 s.h.)

Independent research, directed reading, or special problems under the supervision of a faculty member. Prerequisites: recommendation of major advisor and problem director.

ENV 4710 Environmental Pollutions 4 s.h.

Research investigations focused on a variety of pollution topics, e.g., mercury or metal concentration analysis of soil, water, invertebrates, fish, and plants; E coli colony studies of the nearby lakes and ponds; development of environmentally-friendly biocides; acid rain/air pollutants. Three hours of lecture and three hours of laboratory. Prerequisites: BIO 1040, CHM 1120

ENV 4950 Senior Seminar 2 s.h.

Preparation and presentation of a research paper. *All seniors in the College of Science and Mathematics must complete this course with a grade of C (2.0) or better as a graduation requirement; to be taken within the last 6-8 hours of the major.*

Family and Consumer Sciences (FCS)

FCS 1250 Health Problems (NSC*/NSF) 4 s.h.

FCS 2160 Child Development and Guidance (CD*) 4 s.h.

FCS 2250 Human Nutrition (HMG/NFS*) 4 s.h.

FCS 2260 Introductory Food Science (HMG/NFS*) 4 s.h.

FCS 2370 Apparel Evaluation (MM*) 3 s.h.

FCS 2930 Practicum in Children and Youth Services 1 s.h.

Fifty hours of experience working with children and/or youth.

FCS 2940 Practicum in Educational Services 1 s.h.

Fifty hours of experience in an educational setting.

FCS 3050 Textiles for Consumers (MM*) 3 s.h.

FCS 3130	Adolescent Psychology (PSY*)	4 s.h.
FCS 3530	Marriage and the Family (RST*/SOC)	4 s.h.
FCS 3630	Architectural Styles and Interior Design (HMG/MM*)	4 s.h.
FCS 3700	Life Cycle Financial Planning (FIN*)	3 s.h.
FCS 3750	Human Shelter and Environment (MM)	4 s.h.
	Emphasis on the impact of design and environment on individuals and families. Environments are studied as they relate to social, psychological, economic, and legislative conditions in society. Interior design fundamentals and the impact of the designed environment on human behavior. Space planning, furnishing, and selection of materials and components for interiors. (3 hours lecture, 1 hour academic service learning component.)	
FCS 3930	Practicum in Family Services	1 s.h.
	Fifty hours of experience in a family service agency.	
FCS 3940	Practicum in Consumer Services	1 s.h.
	Fifty hours of experience in consumer services.	
FCS 4500	Issues Challenging Children and Families (CD*)	3 s.h.
FCS 4530	Teaching Personal Development and Career Planning	3 s.h.
	Introductory course in the career development process. Students participate in an interactive learning experience that involves self-discovery, career investigations and planning, and the use of technological and community resources. An externship in an individual's pathway of choice is required.	
FCS 4950	Seminar (CD*)	2 s.h.

Financial Administration (FIN)

FIN 3150	Business Finance	3 s.h.
	Study of the management of the financial affairs of a business enterprise in respect to planning and analysis of the financial decision making function. Topics include: time value of money, working capital management, leverage, ratio analysis, capital budgeting, capital structure decisions, dividend policy, and international financial management. Prerequisites: ACC 2020 and ECN 2730.	
FIN 3700	Life Cycle Financial Planning (FCS)	3 s.h.
	Basic planning of personal finances to satisfy personal and family life cycle goals. Topics include: budgeting, consumer credit, investments, insurance, personal residences and real estate, retirement plans, and individual income taxes. The life cycle of personal investment strategies is explored.	
FIN 4300	Budgeting and Financing of Sport (SM*)	3 s.h.

Fire Science (FS)

FS 1010	Introduction to Fire Protection and Prevention	3 s.h.
	History of fire protection practices; problems of fire suppression and practices; aspects of fire protection and prevention, including basic field equipment, methods of fire suppression, fireground command structure, inspection procedures, codes, and the town grading schedule.	
FS 1030	Basic Fire Protection Training	1-6 s.h.
	Credit awarded for evidence of successful completion of a certified training program.	
FS 2150	Building Construction (OSH*)	3 s.h.

FS 2910	Cooperative Education I	1-3 s.h.
	Field placement in either municipal, industrial, hospital, or similar settings that provide experience in fire protection for pre-service students.	
FS 2930	Internship I	1-3 s.h.
	Field placement in either municipal, industrial, hospital, or similar settings that provide experience in fire protection for pre-service students.	
FS 3020	Field Experience	1-3 s.h.
	Credit awarded individuals for evidence of full-time employment of two or more years in fire protection. Documentation of competencies required.	
FS 3110	Industrial Safety and Health (OSH*)	3 s.h.
FS 3220	Inspection and Survey of Facilities (OSH*)	3 s.h.
FS 3280	Fire and Arson Investigation (OSH)	3 s.h.
	Role of safety/fire science specialist in arson investigation; methods and mechanics of protecting, searching, and controlling fire scene; interviewing and interrogation; recognition and preservation of evidence; case preparation, court testimony, corpus delicti, alibis, motives; dealing with pyromaniacs and juvenile fire setters; Michigan and national arson laws. Prerequisites: FS 1010 and 2150.	
FS 3500	Hydraulics and Water Supply (OSH)	3 s.h.
	Principles of hydraulics theory, grading of water supplies, water supply adequacy testing procedures, and computation of velocity friction loss related to tactical decision making. Prerequisites: PHY 2530 and 2540.	
FS 3680	Fire Protection Systems I (OSH)	3 s.h.
	Survey of sprinkler systems covering design details, placement, inspection, and maintenance; practical application of current codes and standards for system utilizations. Prerequisite: MTH 1050 or its equivalent.	
FS 3690	Fire Protection Systems II (OSH)	3 s.h.
	Principles of use and design characteristics of special fire protection systems; halons, CO ₂ , dry chemical foam, and alarm and detection systems. Prerequisite: MTH 1050 or its equivalent.	
FS 3910	Cooperative Education II	1-3 s.h.
	Advanced semi-professional level assignments in on-the-job application of fire protection principles in either municipal, industrial, commercial, or institutional settings. Preservice students only.	
FS 3930	Internship II	1-3 s.h.
	Advanced semi-professional level assignments in on-the-job application of fire protection principles in either municipal, industrial, commercial, or institutional settings. Preservice students only.	
FS 4280	Fire and Arson Investigative Techniques (OSH)	3 s.h.
	Evaluation and application of methods and techniques for investigative determination of fire occurrences. Includes study of the origin of ignition and conducting investigative surveys. Preparation of case findings for expert witness. Prerequisite: FS 3280.	
FS 4400	Tactics and Strategy (OSH)	3 s.h.
	Study and evaluation of various methods and techniques employed in fire suppression. Includes preplanning and analysis of emergency situations with emphasis on individual decision-making, the effective use of equipment, apparatus, and manpower.	
FS 4510	Hazardous Materials I (EM/OSH*)	3 s.h.
FS 4520	Hazardous Materials II (EM/OSH*)	3 s.h.

- FS 4900 Fire Service Management (OSH)** 3 s.h.
Principles of management and organization in fire protection. Includes analysis of an organization as to its administrative, leadership, and management style in fire protection.
- FS 4950 Senior Seminar** 2 s.h.
Preparation and presentation of a library research paper that integrates knowledge gained in the major discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Foreign Languages (FL)

- FL 2100 Communication and Culture for Health Care Professionals** 3 s.h.
Culturally-based concepts of health and illness among diverse populations are studied to facilitate understanding of differences in global human health conditions for the purpose of providing culturally competent health care. Basic foreign language for health care is included.

Foreign Language Study

Madonna University offers majors and minors in American Sign Language and Spanish (see under these listings) as well as course work in Chinese, Japanese, Polish, and occasional introductory years in other modern languages. Students who wish to study a language not being taught at Madonna University should see their major advisor or the Office of Academic Advising to arrange Consortium registration at the University of Detroit Mercy or Marygrove College, or see the Center for International Studies to discuss opportunities for study abroad.

Forensic Science (FOR)

- FOR 1010 Introductory Principles of Forensic Science (EM)** 3 s.h.
Introduction to the theory and application of modern forensic science techniques. Fundamental science concepts applied to crime scene evidence collection and analysis. 2 hours lecture, 3 hours of lab per week. Prerequisites: none.
- FOR 3050 Criminal Procedures (CJ*/LAW)** 3 s.h.
- FOR 3110 Criminal Investigation (CJ*)** 3 s.h.
- FOR 3210 Principles of Criminology (CJ*/SOC)** 3 s.h.
- FOR 3820 Forensic Psychology (PSY*/CJ)** 3 s.h.
- FOR 4010 Population Genetics (BIO*)** 3 s.h.
- FOR 4230 Homicide Investigation (CJ*)** 3 s.h.
- FOR 4620 Forensic Biology (BIO)** 3 s.h.
Theory and application of modern forensic science biology, including molecular characterization and data analysis. 2 hours lecture and 3 hours of lab per week. Prerequisites: BIO 3010 and CHM 3610.
- FOR 4630 Forensic Chemistry (CHM)** 3 s.h.
Theory and application of modern forensic science chemistry including molecular characterization and data analysis. 2 hours lecture and 3 hours of lab per week. Prerequisites: CHM 3310 and CHM 4510.
- FOR 4910 Cooperative Education** 1 s.h.
- FOR 4920 Cooperative Education** 1 s.h.
- FOR 4930 Internship in Forensic Science** 1-4 s.h.

- FOR 4950 Senior Seminar** 2 s.h.
Preparation and presentation of a scientific paper. *Taken by Forensic Science students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

General Science (GSC)

- GSC 4950 Senior Seminar** 2 s.h.
Preparation and presentation of a scientific paper. *Taken by general science majors with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Geography (GEO)

- GEO 1210 Introduction to Geography** 3 s.h.
Basic concepts, terms, and methods of geography and the physical and cultural regions of the world, the United States, and Michigan; relationship between the diversity of humans and the physical environment; major world, regional, and local patterns and processes.
- GEO 3010 World Regional Geography** 4 s.h.
Regional study of the earth's realms; cultural and physical factors affecting people; effect of the demographic and industrial revolutions of the world.

Gerontology (GER)

- GER 1070 Introduction to Gerontology** 3 s.h.
A general overview of the field of aging. Topics include demographic aspects as well as biological, psychological, and social aspects of the aging process.
- GER 2010 Introduction to Alzheimer's Disease and Other Dementias (PSY)** 1 s.h.
An overview of Alzheimer's disease and other causes of dementia in older adults. Topics include diagnosis and current approaches to managing these diseases. Prerequisite course for GER 3460.
- GER 2100 Physical Education Activities (PED)** 2 s.h.
Design, conduct, and evaluation of physical education programs for older adults. Emphasis on determining appropriate program content, resources, music selection, and leadership techniques.
- GER 2240 Supporting Family Caregivers 1-2 s.h. (max. 2 s.h.)**
An overview of the informal and formal resources available to the caregiver responsible for the mental, physical, and emotional well-being of an aged family member.
- GER 2300 Programs and Services for Older Adults** 3 s.h.
Focus on the continuum of care. Lectures by practitioners in gerontology on the range of programs, services, and resources available for older adults and family caregivers.
- GER 2420 Nutrition for the Aging (NFS*)** 3 s.h.
- GER 2460 Working with Disabled Older Adults** 2 s.h.
Examines programs, techniques, and resources that address the needs of older adults challenged with aphasia, physical limitations, dementia, and developmental disabilities. Explores the social, psychological, and physical potential of each group.
- GER 3020 Program Planning for Older Adults (EDU)** 3 s.h.
Focus on the learning potential of older adults; designing programs that address the educational needs and interests of older persons in a variety of environments.

- GER 3030 Spirituality of Aging** 1 s.h.
Explores the spiritual tasks of the later years with an emphasis on integrating an understanding of those tasks into the practitioner's own journey of aging and into their professional work with older adults.
- GER 3060 Community Resources** 1 s.h.
Focus on the identification and scope of current and potential resources and programs for older adults.
- GER 3070 Psychology of Aging (PSY)** 3 s.h.
Overview of adult development and adjustments common to the process of aging; examination of cognitive and emotional developments as a function of aging. Prerequisite: PSY 1010.
- GER 3100 Activity in Aging** 3 s.h.
An analysis of concepts, theories, and programming related to the role activity plays in successful aging. Topics include the meaning of activity, standards of practice, current modalities, multiple strategies, resource utilization, leadership styles, and motivation.
- GER 3150 Physical Aspects of Aging** 3 s.h.
Study of the normal, as well as the pathological, changes occurring in the aging human body with special emphasis on age-related chronic diseases.
- GER 3460 Addressing Behavior Changes in Dementia (PSY)** 2 s.h.
Explores the causes of challenging behaviors in people with dementia and discusses strategies for addressing these behaviors. Prerequisite: GER 2010.
- GER 3500 Mental Health and the Older Adult** 3 s.h.
Basic engagement skills for working with older adults. Information and interventions related to common mental health issues in older people. Practice in empathic listening, basic interviewing, and problem-solving skills. Symptoms of some common mental health problems and strategies to obtain help for older individuals with those problems.
- GER 3630 Addiction Studies: Older Adults (AS*)** 1 s.h.
- GER 3700 Legal Issues for Older Adults (LAW)** 3 s.h.
An overview of legal issues typically encountered by people in their later years with emphasis on laws and policies affecting management of their care, substitute decision making, public benefits, and medical treatment issues.
- GER 3850 Documentation and Assessment** 3 s.h.
An overview of documentation and assessment in the field of human services with a strong emphasis on the practice of gerontology. Content includes the biopsychosocial assessment, behaviorally-specific care planning, care management, care path design, and other documentation required in settings that serve older adults.
- GER 3900 Care Management for Older Adults** 3 s.h.
The theory and practice of care management. Content includes the five core functions, development of comprehensive care plans, monitoring of the client's progress toward achieving intervention goals, and discussion of ethical practice standards. The role of diversity, client rights, and professional values in the practice of care management also addressed.
- GER 4140 Proposal Writing and Grant Administration (EM)** 2 s.h.
The basic skills needed to develop and write a successful proposal to compete for funds from sources outside the control of the organization or agency. Topics include generating program ideas, researching funding sources, utilizing contacts, basic proposal format, self-funding, understanding the politics of grants, and the administration of and accounting for funds.
- GER 4150 Social Gerontology (SOC)** 3 s.h.
Focus on the impact of aging upon the individual and society. An examination of attitudes, concepts, theoretical perspectives, and issues of an aging culture.
- GER 4250 Public Policy and Resources in Aging** 2 s.h.
Examination of public policies, legislation, and resources related to older people. Focus on the role of gerontology professionals in policy decision-making and the role of ethics. Analysis of structure and functions of service delivery systems and organizations.
- GER 4760, 4770 Field Placement, Field Seminar** 4, 2 s.h.
Professionally supervised practical experience (225 clock hours) with organizations providing services to, or for, older adults. Students meet regularly with their University instructor to discuss placement progress, résumé writing, and job search strategies.
- GER 4850 Gerontology Management** 3 s.h.
Examination of gerontology management techniques. Focus on basic principles of management as they relate to human services.
- GER 4870 Nursing Home Administration I** 3 s.h.
An overview of health concerns in the nursing home. Topics include: Federal and State health regulations, dietetics, health policy, pharmacology, infection control, nursing, quality assurance, and physical plant.
- GER 4880 Nursing Home Administration II** 3 s.h.
Focus on regulatory issues of nursing home administration, Medicare and Medicaid insurance requirements, budgeting and accounting, and life safety codes.
- GER 4950 Gerontology Senior Seminar** 3 s.h.
Methodological and philosophical foundations of gerontology. Students prepare and present an original research paper and formulate an individual approach to aging. *To be taken during the senior year.*
- ## History (HIS)
- HIS 1010 World Problems (PSC)** 3 s.h.
Analysis of the most significant contemporary world issues confronting the international community of nations and citizens of United States.
- HIS 1080 Ancient World** 4 s.h.
Three-part investigation of ancient times, including the Ancient Near East, Ancient Greece, and the Roman Republic and empire; the origins of Christianity.
- HIS 2310 United States to 1900** 4 s.h.
Political, social, economic, and cultural development of the United States; emphasis on the colonial period, the Civil War, and the rise of America to world power.
- HIS 2450 Medieval and Renaissance Europe** 4 s.h.
Study of the Middle Ages from the Germanic invasions, emphasizing feudalism, chivalry, the Church and Empire, the Crusades, the Italian Renaissance, and Northern Humanism.
- HIS 2750 Michigan History** 2 s.h.
Significant people and events during Michigan's long history, including the roles of the Native Americans, the French, the British, the Toledo War, Civil War, Michigan's economic growth, the Great Depression, the roles of labor and minorities, and discussion of the several state constitutions.
- HIS 2800 Foreign Study Abroad (HUM)** 3 s.h. (max. 9 sh.)
Travel to international locations with an emphasis on the study of history, government, language, society, and/or culture. Coordi-

nated through the Center for International Studies; either individuals or groups may enroll. *Applies to International Studies Certificate and to selected programs, with approval of advisor.*

HIS 3220 Race, Ethnicity, and Class in American Life (SOC) 4 s.h.

Survey of historical and contemporary expressions, patterns, and consequences of intergroup tensions stemming from discrimination in American Life.

HIS 3300 Early Modern Europe 4 s.h.

European politics, religion, and ideas from the Age of Discovery to the Napoleonic Wars, with emphasis upon the Reformation, religious and dynastic wars, scientific revolution, absolute monarchies, the Enlightenment, and the French Revolution.

HIS 3330 Modern Europe, 1815-Present 4 s.h.

European politics and ideas from the Napoleonic Wars to contemporary Europe, emphasizing the industrial revolution, the Victorian Age, German unification, imperialism, First World War, Bolshevik Revolution and Stalinist Russia, Fascism and the Second World War, the Cold War, and the Rise of Europe.

HIS 3410 Minority Groups in America 4 s.h.

Conflict between the revolutionary ideals of the American dream and the reality of majority-minority group relations from colonial America to the present.

HIS 3810 American Civil Rights Movement 3 s.h.

Study of the American Civil Rights Movement for African-Americans from the Second World War until the present. Various strategies for achieving social change are examined and assessed, with due attention to the complementary roles of leaders and of ordinary Americans. Emphasis on the powerful and defining influences of religion and law in American responses to the value dilemmas related to social justice and social change.

HIS 4100 Special Problems in History 1-3 s.h. (max. 9 s.h.)

Study of selected topics of interest in History.

HIS 4210 Time and Literature (ENG*) 4 s.h.

HIS 4320 Diplomatic History of the United States 3 s.h.

Influence of foreign policy on past and present life of the United States; emphasis on the nation as a world power, taking into account the viewpoints of the international community of nations.

HIS 4510 Economic and Business History of the United States (ECN) 4 s.h.

Survey of major changes in the American economy, including transportation, industry, labor, finance, and marketing. Role of private business and government in economic change.

HIS 4530 United States in the Twentieth Century 4 s.h.

Development of the United States as a world power and its impact on the social, economic, cultural, and political changes in the contemporary era.

HIS 4631 Global Studies: Modern Africa (PSC) 3 s.h.

Study of selected historical problems and themes related to modern sub-Saharan Africa, with attention to relationships with the non-African world.

HIS 4632 Global Studies: Modern Asia (PSC) 3 s.h.

Study of selected historical problems and themes related to modern Asia, with an emphasis on China, Japan, and India, and attention to domestic developments and global relationships.

HIS 4633 Global Studies: Modern Latin America (PSC) 3 s.h.

Study of selected historical problems and themes related to modern Latin America, with attention to regional and global relationships.

HIS 4634 Global Studies: Modern Middle East (PSC) 3 s.h.

Study of selected historical problems and themes related to the modern Middle East, with an emphasis on Arab and Islamic cultures, attention to the non-Arab and non-Islamic dimensions of the region and to global relationships.

HIS 4800 Foreign Study Abroad (HUM) 3 s.h. (max. 9 s.h.)

Travel to international locations with an emphasis on the study of history, government, language, society, and/or culture. Coordinated through the Center for International Studies; either individuals or groups may enroll. *Applies to International Studies Certificate and to selected programs, with approval of advisor.*

HIS 4810 American Civil War 4 s.h.

Examination of the American Civil War, the pivotal event in the American experience, emphasis on the causes of the Civil War, the course of the War from several angles, and an overview of Reconstruction.

HIS 4950 History and Social Science Seminar (SSC) 4 s.h.

Theoretical and philosophical foundations of history and the social sciences, including a paper or project reflecting methodological skills. Prerequisite: senior status in the major.

Hospice and Palliative Studies (HSP)

HSP 2210 Introduction to Palliative/End-of-Life Care Concepts 3 s.h.

An examination of the history of the hospice movement and the evolution of Palliative/End-of-Life (EOL) Care. Introduces core concepts of hospice philosophy, emphasizing its humanistic nature, family focus, and interdisciplinary and holistic practice. *It is strongly recommended that majors in Hospice and Palliative Studies take this course as the prerequisite to all other hospice courses.*

HSP 3310 Management of the Bereavement Process (EM) 3 s.h.

The foundations of the bereavement process following the loss of a significant person. An examination of stage theories and key concepts that describe the grief continuum and personal transformation through the process of grief. Cultural attitudes and myths regarding loss and bereavement are examined in the context of gender, ethnicity, age, and circumstances of death. Personal reflections on loss and bereavement are encouraged throughout.

HSP 3480 Psychosocial Domains of Palliative/End-of-Life Care (PSY) 3 s.h.

Exploration of the psychosocial domains of assessment across the life span of individuals and families in palliative/End-of-Life (EOL) care. Developing strategies for facilitating holistic care to patients and families. Effective communication skills for cultural competence. The impact of stress on the quality of life for the patient, family, and trans-disciplinary team.

HSP 3500 Spiritual and Ethical Considerations in Palliative/End-of-Life Care (RST) 3 s.h.

Examines dying as potentially the last stage of human development and spiritual growth. Enhances religious literacy through identification of the salient beliefs and practices regarding illness, dying, death, and burial rituals of major world religions. Ethical theories, principles, and steps that guide decision making for individuals, families, and caregivers in Palliative/End-of-Life (EOL) care.

HSP 3530 Palliative/End-of-Life Comfort and Care 3 s.h.

Instruction in the physical aspects of therapeutic interventions to relieve the distress of common problems associated with

disease process, emphasis on ways to control pain and manage other symptoms associated with dying, provides for practicing selected comfort measures in a simulated laboratory setting.

HSP 4620 Palliative/End-of-Life Care Management I 3 s.h.

Focus on the general functions of a manager and application of these functions to hospice settings. Examines the history of hospice management as well as theories of motivation and leadership. Emphasis on leadership and development and understanding organizational behavior.

HSP 4650 Hospice/Palliative Care Field Experience I 3 s.h.

Consists of 15 hours of seminar and 90 hours of practicum in selected agencies. The experience includes observing and applying principles of palliative care and management in a variety of hospice settings. Prerequisite: department approval.

HSP 4750 Emerging Issues in Palliative/End-of-Life Care 3 s.h.

Current issues and emerging trends within the Palliative/End-of-Life (EOL) care continuum. Examination of access and barriers to EOL care and the role of healthcare leaders, policy makers, and key stakeholders in developing strategies for delivery of timely quality care and financing mechanisms. Exploration of beliefs, values, and practices that shape decision making regarding dying, death, and burial rituals.

HSP 4820 Palliative/End-of-Life Care Management II 3 s.h.

Focus on advanced management functions and application of these functions to various hospice settings. Explores fiscal management, marketing, public relations, strategic planning, human resource management, funding sources, legal issues, and quality assurance. Prerequisite: HSP 4620.

HSP 4850 Hospice/Palliative Care Field Experience II 2 s.h.

Focuses on advanced field placement experiences in student-selected area of specialization. Includes observation and experience with the delivery of palliative/EOL (End-of-Life) care in a hospice organization. *To be taken concurrently with HSP 4950 and only by students with senior status in Hospice and Palliative Studies.*

HSP 4950 Hospice/Palliative Care Senior Seminar 2 s.h.

Synthesis of theory and practice. Preparation and presentation of a structured student portfolio that gives evidence of learning in palliative/End-of-Life (EOL) care throughout the program. *To be taken concurrently with HSP 4850 and only by students with senior status in Hospice and Palliative Studies. A requirement for graduation.*

Hospitality Management (HMG)

HMG 2250 Human Nutrition (FCS/NFS*) 4 s.h.

HMG 2260 Introductory Food Science (FCS/NFS*) 4 s.h.

HMG 2400 Principles of Retailing (MKT/MM*) 3 s.h.

HMG 2550 Consumer Behavior (MKT*/MM/NFS) 3 s.h.

HMG 2760 Food Service Sanitation (NFS*) 2 s.h.

HMG 3100 Facility Design and Event Management (SM*) 3 s.h.

HMG 3360 Lodging Management I (NFS/MGT) 3 s.h.

A study in general responsibilities of various departments within the rooms, the food and beverage, the marketing and sales, and the administrative divisions of a lodging property. Prerequisite: MGT 2360.

HMG 3460 Food Service Management I (NFS*) 3 s.h.

HMG 3630 Architectural Style and Interior Design (MM*/FCS) 4 s.h.

HMG 3660 Market Field Study (NFS) 2 s.h.

Three day on-site visit to a hospitality market and trade show where hospitality industry leaders offer valuable current educational sessions; and to hotels, restaurants, and private clubs in the same city that provide an inside look at the operation of selected hospitality venues.

HMG 4260 Club Management (MGT/SM) 3 s.h.

General administrative procedures in the management of private clubs. Study and analysis of club operations, club boards of directors, service excellence in clubs, leadership in club operations, quality management systems for clubs, club marketing, food and beverage operation in clubs, financial management, and fundamental features of specific categories of private clubs. Prerequisites: MGT 2360, CIS 2250 or 2380.

HMG 4360 Lodging Management II (NFS/MGT) 2 s.h.

A study of various organizational structures and systems in the lodging industry and the authority vested in the respective levels of management. Emphasis on operations analysis and problem solving. Prerequisites: HMG 3360 and MGT 2360.

HMG 4370 Marketing Hospitality Services (MKT) 3 s.h.

An in-depth look at the nature and scope of the meetings, convention and trade show markets, how to effectively service this market, and increase market share for properties. Prerequisite MKT 2440.

HMG 4460 Food Service Management II (NFS*) 3 s.h.

Humanities (HUM)

HUM 2010 The Medium and the Message 4 s.h.

Interdisciplinary introduction to art, history, music, and literature, focusing on their means of communication and potential to express spiritual, humanistic, and aesthetic concepts.

HUM 2020 Humanities Through the Arts 4 s.h.

Telecourse introduction to artistic expression in the arts and humanities areas of: architecture, art history, drama, literature, music, painting, photography, and sculpture. Videotapes and texts, blended with monthly class sessions and writing projects. *Alternate to HUM 2010 in fulfilling General Education Goal 3.A.*

HUM 2800 Foreign Study Abroad (HIS*) 3 s.h. (max. 9 s.h.)

HUM 3050 The Idea of Justice (RST) 4 s.h.

An interdisciplinary study of justice based on an analysis of humanities texts from a variety of discourse communities in order to develop an appreciation of diverse concepts and expressions of justice.

HUM 3080 The Nature and Scope of Inquiry 3-4 s.h.

Theme-based, highly interactive interdisciplinary course designed to enable students to explore the different approaches and ways of knowing that contribute to understanding and resolving complex issues, problems, or dilemmas of contemporary life. The course focuses on a compelling theme and is designed to develop the commitment to intellectual inquiry, humanistic values, and service to others as embodied in the mission of the University.

HUM 3090 Holocaust: Issues and Themes in the Genocide of European Jewry 4 s.h.

Examination of the social and political forces and actions that enabled the Nazi regime to plan and carry out the systematic extermination of European Jewry. Analysis of the Nazi genocidal agenda, utilizing materials from history, literature, film, music, and the fine arts. An overview of the roots of anti-Semitism and of how a modern authoritarian regime employed historic stereotypes and prejudices in effectively enlisting a majority of its citizens in active or passive criminal complicity.

Examination of the institutions of mass murder, the silence of church and state, and, despite this silence, the forces of resistance. Prerequisite: Junior standing or permission of instructor.

HUM 3750 Religion and Society (SOC*) 3 s.h.

HUM 4800 Foreign Study Abroad (HIS*) 3 s.h. (max. 9 s.h.)

HUM 4950 Senior Seminar 1 s.h.

Interdisciplinary seminar requiring majors in humanities disciplines to integrate and synthesize knowledge gained in the major and relate that to other humanities fields. Emphasis on demonstrating the analytical, critical, and communication skills necessary for competency in a humanities discipline.

HUM 4960 Senior Seminar 3 s.h.

An interdisciplinary capstone seminar in the arts and humanities, and the essentials of what it takes to be an "educated person" in the liberal arts tradition. Students demonstrate their mastery of a major-related topic through the completion of a substantial research paper and a formal presentation of its thesis. *Highly recommended for students planning to attend graduate school.*

Integrated Catholic Core (ICC)

See 2006-2008 Undergraduate Bulletin under Catholic Integrated Core Curriculum.

Interdisciplinary Studies (IDS)

IDS 3000 Social Change and Challenges 3 s.h.

An interdisciplinary exploration of a topic or theme related to global, technological, or societal issues, focusing on the pervasive long-term implications this issue will have for the future as well as the human dilemmas that will emerge. Emphasis on developing critical thinking and interdisciplinary problem-solving skills, particularly in the context of information access and management. A writing intensive course.

IDS 3020 Introduction to Interdisciplinary Studies 3 s.h.

Introduction to the field of interdisciplinary studies, the goals for the IDS major, the plan of study approval process, and of the capstone requirement for the major (portfolio or research project).

IDS 4950 Senior Seminar 3 s.h.

Culmination of the student's plan of study resulting in an interdisciplinary project, requiring a research paper or interdisciplinary/multi-genre portfolio and an oral presentation. Students must demonstrate competency in writing, critical thinking, interdisciplinary problem-solving, and information management. Prerequisites: IDS 3000; ENG 3100 (can be co-requisite); and senior standing.

International Business (INB)

INB 3140 International Business 3 s.h.

The relationship of culture, politics, law, and economics to the operation of multinational business. An integrated approach to marketing, finance, law, management, sociology, political science, and economics.

INB 4350 International Trade Structures and Systems 3 s.h.

An examination of current theories of the patterns of international trade and finance. An exploration of the history, institutional framework, and structural patterns of international trade. Discussion of theories of the determination of exchange rates. Prerequisites: ECN 2720, ECN 2730, and INB 3140.

INB 4450 International Management 3 s.h.

Study of international management as a function of char-

acteristics of the nation state and its international trade practices, policies, and management expectations. Prerequisites: INB 3140 and MGT 2360.

INB 4500 International Business and Culture Experience 1-3 s.h. (max. 3 s.h.)

Students work with an advisor to select a country of travel, establish learning objectives, and develop guidelines to write a paper.

INB 4710-4750 Seminars 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

INB 4710 Brunch with an Expert Seminar 1 s.h.

INB 4720 Literature Review Seminar 3 s.h.

INB 4730 Research Seminar 3 s.h.

INB 4740 General Topic Seminar 1-3 s.h.

INB 4750 Leadership Seminar 1 s.h.

INB 4930 Internship 2 s.h.

International Studies (INT)

INT 2100 International Studies Foundations 1 s.h.

Through a series of readings, discussions, and lectures, students explore the dimensions of internationalization, and are exposed to a variety of international learning opportunities related to the overall plans of study; readings drawn from interdisciplinary sources.

INT 4950 International Studies Seminar 3 s.h.

Theme-based, culminating seminar affording students the opportunity to analyze and understand specific complex global issues and trends from multidisciplinary, cross-cultural, and comparative perspectives.

Japanese (JPN)

JPN 1010, 1020 Beginning Japanese I, II 4, 4 s.h.

Introduction to the rudiments of spoken and written Japanese. Focus on the four language skills: speaking, listening, reading, and writing, particular emphasis on speaking and listening. Introduction of hiragana and katakana writing systems, as well as to a limited number of Chinese characters (Kanji). Close attention to the social and cultural context of Japanese language. Prerequisite for JPN 1020 is JPN 1010.

JPN 2010, 2020 Intermediate Japanese I, II 4, 4 s.h.

Continuation of the study of Japanese, concentrating on the acquisition of more advanced grammatical patterns, vocabulary, and 200 Toyo Kanji. Intensive classroom drills provide opportunities to practice listening as well as to gain confidence in speaking within a structured setting. Emphasis on recitation, reading and writing. Prerequisite for JPN 2010 is JPN 1020; prerequisite for JPN 2020 is JPN 2010.

JPN 3210 Survey of Japan 3 s.h.

Introduction to Japanese history, religion, culture, geography, statecraft, and social institutions, using a historical-chronological approach to how the distinctive attitudes of the Japanese have emerged and changed over time. Particular examination of the arts as an eloquent record of Japanese culture and Japanese definitions of themselves and their vision of life. Course taught in English.

JPN 4230 Japanese Literature in Translation 3 s.h.

A survey of Japanese literature from antiquity to the present, emphasizing the development of Japanese culture and civilization and the distinctive themes, values, ideals, and literary forms of various periods with special attention to the relationship between literature and the performing arts in Japan. Works are read in translation.

Journalism and Public Relations (JRN)

JRN 1010	Survey of Broadcast, Film, and Digital Media (BCA*)	3 s.h.
JRN 1210	Introduction to Graphic Design (ART*)	4 s.h.
JRN 1320	Newspaper Reporting (ENG) Organization of the modern newspaper; news values and news sources; structures of the news story; practical training in gathering and writing typical news stories.	3 s.h.
JRN 2050	Public Relations Writing Acquaints student with functions of public relations in our society and explains basic theories and principles in publicity writing and placement. Prerequisite: JRN 1320 or departmental approval.	3 s.h.
JRN 2100	Media Relations in Sport (SM*)	3 s.h.
JRN 2610	Television Production I (BCA*/SPH)	3 s.h.
JRN 2810	Field Production and Editing I (BCA*)	3 s.h.
JRN 2860	Editorial Writing and Feature Writing Study of writing of newspaper features; principles and ethics of editorial judgment; the means of persuasion; nature, structure, and function of the editorial; editorial page layout and content; writing of opinion articles. Prerequisite: JRN 1320 or departmental approval.	3 s.h.
JRN 2910, 2920	Journalism/Public Relations Practicum/Cooperative Education	1-4 s.h. each
JRN 3030	Writing for Radio, TV, and Film (BCA*)	3 s.h.
JRN 3130	Photography I (ART) Basic digital photography; principles of light, lenses, and composition; participation in all phases of digital work flow from initial composition to final image. <i>Required for students seeking teaching certification with a Journalism minor.</i>	3 s.h.
JRN 3140	Photography II (ART) Further exploration of photography including digital and chemical-based imaging. Digital and chemical printing, negative development, archival and fine art black-and-white printing. Class culminates with a portfolio project in either print or digital media. Prerequisite: JRN 3130 or permission of instructor.	3 s.h.
JRN 3150	Photoshop (ART*)	3 s.h.
JRN 3160	Newspaper Production Techniques and hands-on experience of covering beats, digging out stories, writing stories, and validating facts under pressure of deadlines through working on the school publication. Prerequisite: JRN 1320 and 2860; or departmental approval.	2 s.h.
JRN 3570	Editing and Copyreading Principles of editing, headline writing, page make-up, use of pictures in newspapers, special sections, magazines. Prerequisite: JRN 1320 or departmental approval.	3 s.h.
JRN 3610	Television Production II (BCA*/SPH)	3 s.h.
JRN 3750	Television News Reporting and Production (BCA*)	3 s.h.
JRN 3820	Field Production and Editing II (BCA*)	3 s.h.
JRN 3910, 3920	Journalism/Public Relations Practicum/Cooperative Education	1-4 s.h. each

On-campus or on-the-job experience in publications, publicity, or promotion work. One or more cooperative education experiences may substitute for the practicum. Prerequisite: JRN 1320, 2860, and 3570; or departmental approval.

JRN 4010	Foundations of Mass Communication (BCA/SPH)	3 s.h.
	Theory of behavior in communications in general and the mass media in particular. The design and evaluation of public opinion studies and research topics in communications with emphasis on the effects that the various media have had on consumers. <i>Required for students seeking teaching certification with a Journalism and Public Relations minor.</i>	
JRN 4050	Advanced Public Relations	3 s.h.
	Development of a variety of public relations projects for internal and external audiences, including publicity generation, media relations, on-line and print publication creation, press releases, media kits, and crisis communication. Discussion of public relations strategies and tactics, case studies, and ethical decision-making. Prerequisite: JRN 2050 or departmental approval.	
JRN 4160	Advanced Newspaper Production	2 s.h.
	Selecting and measuring type, photographic art, captions, mastheads, and logos; designing pages within constraints of newshole and budget; editing the school publication under actual deadline conditions. Prerequisite: JRN 1320, 3160, and 3570; or departmental approval.	
JRN 4630	Directing and Producing for Television (BCA*)	3 s.h.
JRN 4750	Special Topics in Journalism/Public Relations	1 s.h. (max. 3 s.h.)

A specialized course dealing with a particular aspect of the journalism/public relations field. Topics vary by semester. The course examines contemporary topics and explores how media professionals respond to these issues. *Journalism/Public Relations majors are required to take JRN 4750 once and may take the course two additional times, provided the content is distinct.*

JRN 4910, 4920	Journalism/Public Relations Practicum/Cooperative Education	1-4 s.h. each
	On-campus or on-the-job experience in publications, publicity, or promotion work. One or more cooperative education experiences may substitute for the practicum. Prerequisite: JRN 1320, 2860, and 3570; or departmental approval.	

Legal Assistant (LAW)

See listings under PARALEGAL STUDIES.

Management (MGT)

MGT 2160	Human Behavior and Attitudes	2 s.h.
	Holistic approach to understanding oneself; discussion of various approaches to personal growth and development; overview of communication skills and practices; analysis of personal values and attitudes. <i>General elective or General Education only. No credit within business majors.</i>	
MGT 2360	Principles of Management	3 s.h.
	An introduction to the nature and principles of management; history, theories, practices, problems, and techniques; characteristics and qualities of managers; contemporary trends in management thought and practice.	
MGT 3020	Organizational Behavior	3 s.h.
	Analysis of group and individual behavior in the organization; analysis of social structures which affect management policies and procedures. Prerequisite: MGT 2360.	
MGT 3100	Strategic Human Resources Planning	3 s.h.
	Analysis of personnel functions, job and manpower	

requirements, techniques for recruitment and hiring, job analysis techniques; compensation process; collective bargaining process.
Prerequisite: MGT 2360.

MGT 3160 Human Behavior and Leadership 2 s.h.

Leadership and its relationship to theory, style, time management, problem solving, personal power, team building, and self-assessment. Self-assessment instruments, discussion, films, case studies, in-basket exercise, leaderless group problem-solving exercises, peer interview, assessments, and team development are integrated to provide a better understanding of leadership and of human behavior as it relates to leadership.

MGT 3210 Operations Management 3 s.h.

A study of the organizational operations responsible for products, services, tasks and processes. Manufacturing and service operations are studied as linked, cross-functional, integrated, aimed at customer requirements, and designed to minimize waste. Prerequisites: CIS 2380, MGT 2360, MTH 2350, and QS 3550.

MGT 3270 Human Resources Training and Development 3 s.h.

Processes involved in retaining and developing the human resources of any organization; includes learning theory and its pathing and consulting techniques. Prerequisite: MGT 3020.

MGT 3360 Lodging Management I (HMG*/NFS) 3 s.h.

MGT 3690 Entrepreneurship 3 s.h.

A study of the entrepreneur and the entrepreneurial spirit in business and the financial, organizational, and personal influences which combine to create a flow of new ideas, new markets, new products, and new technology. Applications of business research techniques for assisting local business owners and operators in analyzing their operations and practices. Prerequisites: ACC 2010, MGT 2360, and MKT 2440, or consent of instructor.

MGT 3750 Allied Health Management (AHA) 3 s.h.

Management problems and practices in health care facilities. Prerequisite: MGT 2360.

MGT 4260 Club Management (HMG*/SM) 3 s.h.

MGT 4300 Strategic Planning in an e-Commerce Environment 3 s.h.

Capstone in the e-Commerce Certificate: applying research of strategic management and the management of information technologies to develop an integrated framework for analyzing how the Internet can be used to measure organizational performance in the various functional areas of business. Case studies apply the principles of e-Commerce. Prerequisites: one course each in accounting, management, management information systems, marketing, and economics; and BUS 3530.

MGT 4350 Compensation 3 s.h.

The development, validation, and implementation issues associated with a wage-and-salary program. Topics include: market position, pay range development and validation, market surveying, and implementation techniques and issues. The technical, legal, and moral issues involved in fringe benefit planning, implementation, and administration. Prerequisites: FIN 3150, QS 3550.

MGT 4360 Lodging Management II (HMG */NFS) 3 s.h.

MGT 4400 National Labor Relations Policy and Practice 3 s.h.

Survey of the contemporary policy and practice of private and public sector employers with respect to their employees. Exposure to a myriad of situations facing contemporary leaders and examination and discussion of the ramifications of various decisions on organizational effectiveness and efficiency, as well as society at large.

MGT 4710-4750 Seminars 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

MGT 4710 Brunch with an Expert Seminar 1 s.h.

MGT 4720 Literature Review Seminar 3 s.h.

MGT 4730 Research Seminar 3 s.h.

MGT 4740 General Topic Seminar 1-3 s.h.

MGT 4750 Leadership Seminar 1 s.h.

MGT 4910 Cooperative Education 1 s.h.

MGT 4920 Cooperative Education 1 s.h.

MGT 4950 Business Policy 3 s.h.

Capstone course for students with a major in Accounting, Business Administration, Financial Administration, International Business, Management, or Marketing: students bring to bear all the experience and knowledge of their study of business administration to analyze central problems of profit and not-for-profit enterprises and to apply strategic management in developing business policy. Case study approach. Prerequisites: all required Business core and major required courses.

Management Information Systems (MIS)

MIS 2400 Introduction to Management Information Systems 3 s.h.

The value of information technology to business and the contribution technology can make to the strategic goals of an organization. Technical foundation concepts such as networks, hardware, and software. Case studies are used to illustrate concepts. Hands-on exercises using industry-standard software are included. Prerequisite: CIS 2380.

MIS 2410 Business Presentations 3 s.h.

Study of the principles of creating effective business presentations. Emphasizing the need for preparation and practice, the course offers strategies to plan, develop, and deliver effective presentations. Hands-on practice with presentation software is required. Prerequisite: CIS 2250 or 2380.

MIS 2500 Database Design and Management 3 s.h.

Examination of database design and management concepts within the framework of business applications. Focus is on the relational database model with supplemental information on developing technologies. Provides a strong theoretical foundation covering both logical and physical database design strategies. Develops an awareness of database management issues such as data security and transaction management. Students implement project solution using industry standard relational database management system software. Prerequisites: MIS 2400.

MIS 2700 Systems Analysis and Design 3 s.h.

An overview of the concepts, skills, methodologies, and tools necessary for systems analysts to successfully develop information systems. The systems development life cycle is examined within the context of business applications. Students learn to translate business requirements into information systems that support business objectives. Hands-on experience with industry standard software. Prerequisite: MIS 2400.

MIS 2800 Introduction to Visual Basic Programming 4 s.h.

Introductory instruction in computer programming. Topics include fundamental programming concepts such as algorithm development, programming structures, and methods to determine program correctness. Emphasis on creating business-oriented applications

using Microsoft Visual Basic software. Fourth-credit laboratory comprised of extensive exercises in implementing business problem solutions. Prerequisite: MIS 2400.

MIS 2850 Web Design for Business Applications 3 s.h.

Study of the evolution, design, and development of Internet web sites. An introduction to HTML coding and the use of GUI software for the development and maintenance of web sites and web pages. Investigation and determination of what constitutes an acceptable web site. Prerequisite: CIS 2380 or permission of the department.

MIS 2910 MIS Internship I 1 s.h.

Supervised work performed in a professional setting that provides experience with current technologies. Final grade based on student performance as measured by a learning agreement negotiated between the student, MIS advisor, and employment supervisor at the beginning of work. Prerequisites: must have completed 9 semester hours of MIS classes.

MIS 2950 Network Essentials and Data Communications 3 s h

Analysis of data communications systems for business. Considers distributed processing, network terminology, protocols, standards, topologies, and management issues. Students are required to demonstrate network concepts with practical applications. Prerequisite: MIS 2400.

MIS 3300 Information Systems for Decision Making 3 s.h.

Present the fundamental concepts of information systems. Emphasis on the process by which computer systems are developed from the end users' perspective. Problem solving using computer based information systems. Analyzing existing information systems by way of case study methodology. Prerequisite: CIS 2250 or 2380. *No credit for majors in Management Information Systems.*

MIS 3350 Health Care Informatics 3 s.h.

Introducing applications of informatics systems to healthcare practitioners. Healthcare informatics issues covering hardware, software, databases, communications applications, computer developments, and associated legal and ethical issues are explored. How health care providers can assess, develop, and use information systems to work more efficiently, allocate resources more effectively, and improve client care. Hands-on experiences with industry standard software is required. Prerequisites: CIS 2380. *No credit for majors in Management Information Systems.*

MIS 3420 Computer Ethics 3 s.h.

An introduction to the major issues surrounding the use of computers in our society, with a special focus on social behavior in online communities and the electronic workplace. Exploration of why computers and information technology raise ethical questions and the ways in which individuals perceive, experience, and behave in a computer environment. Case studies are used to understand each ethical situation, discuss the different perspectives, and decide how each of us would handle different ethical decisions, providing guidelines to becoming a safe, responsible professional and social computer user. Prerequisite: CIS 2380. *May be used in partial fulfillment of General Education Goal 5.B.*

MIS 3440 Information Security 3 s.h.

The requirement of organization managers to safeguard both electronic and non-electronic information and data; an understanding of the threats to information security to which organizations are exposed; and effective strategies for minimizing their effects. Topics such as risk assessment and management, human factors, compliance with regulations, and ethical considerations are discussed. Case studies are emphasized. Prerequisites: CIS 2380.

MIS 3460 e-Commerce Information Technology 3 s.h.

An introduction and investigation of establishing, devel-

oping, and managing Web strategy in the e-commerce area, studying the critical elements essential to successful website implementation and management. Application of the systems approach to examine some of the new business models emerging from web-based business. Prerequisite: CIS 2380.

MIS 3500 Database Programming – SQL 3 s.h.

Database programming and administration using the Structured Query Language (SQL). Students learn to create relational database applications and to access and manipulate information stored within those databases. The student also becomes familiar with database administration and security issues. Query and reporting functions are emphasized. A business-oriented application is developed. Prerequisite: MIS 2500.

MIS 3700 Information Systems Project Management 3 s.h.

Study of the strategies and tools useful in the management of information systems projects. The processes and issues involved in formulating a project, including development of scope, design options, integration with other projects, and development of project plans. The effects of staffing, budget, schedule, and risk management on the project's outcomes. Examples highlight the hands-on skills and solutions required. Industry standard software is used to implement case study solutions. Prerequisites: MGT 2360 and MIS 2700.

MIS 3740 Software Development and Testing 3 s.h.

Fundamental principles of software engineering, emphasizing a rigorous approach to software development. Examination of the application of those principles to organization case studies. Topics include software process models, requirements analysis, software quality assurance, operations and testing, addressing both procedural and object-oriented development. Prerequisites: MIS 2700, MIS 2800.

MIS 3800 Intermediate Visual Basic Programming 3 s.h.

Problem-solving with the computer using the computer language Microsoft Visual Basic for Windows. Advanced programming techniques and applications in a business environment; emphasis on creating complex business-oriented applications in the Microsoft Windows operating system environment, using an Object Oriented Programming (OOP) approach. Prerequisite: MIS 2800 or equivalent.

MIS 3850 XML Programming for Business Applications 3 s.h.

The key features of the most common XML standard languages and tools for electronic publishing and document exchange on the Internet. Emphasis is on the definition and structure of the Extensible Markup Language (XML) and encoding, tools and standards related to XML, for example SGML, DTD, XML Schema, CSS and XSL style sheets, and transformations. Methods and tools for producing and managing electronic documents are learned and used in assignments. Business applications are emphasized. Prerequisites: MIS 2850.

MIS 3910 MIS Internship II 1-2 s.h.

A continuation of MIS 2910, where student may gain additional practical experience with technology. Supervised work performed in a professional setting that provides experience with current technologies. Final grade based on student performance as measured by a learning agreement negotiated between the student, MIS advisor, and employment supervisor at the beginning of work. Prerequisites: MIS 2910; must have completed 12 semester hours of MIS classes.

MIS 3950 Advanced Networking 3 s.h.

Network analysis and configuration using state of the art networking concepts and devices. Analysis of the OSI model, data encapsulation, network segmentation, addressing, subnetting and network design. Investigation of basic configuration of business and home networking routers, including hardware manufacturers such as MISCO, LINKSYS, and DLINK, through hands-on and simulator practice labs. Prerequisites: MIS 2950.

MIS 4320 Audit and Control of Accounting and Information Systems 2 s.h.

Principles of auditing of information systems with emphasis on controls, audit types, security, and audit techniques and their effects on accounting and computer system development. Prerequisites: MIS 2700 or MIS 3300, and ACC 2020.

MIS 4500 Advanced Database Concepts 3 s.h.

Exploration of advanced topics in database design and examination of the implications of new technologies for 21st century business. The business applications of data warehousing and data mining technologies and their effect on business information systems and decision making. Developing a theoretical foundation for understanding the emerging methodologies, such as object-oriented database systems and object-relational database systems, and their implications for business development. Prerequisite: MIS 3500.

MIS 4570 Human Resources Information Systems 3 s.h.

The application of computer-based information systems to human resources (HR) management. Investigation of technologies appropriate for organizations of various sizes, effective strategies for obtaining and using technology, and the major trends in Internet technologies suitable for HR processes. Hands-on experience with industry standard software required. Prerequisite: CIS 2380. *No credit for majors in Management Information Systems.*

MIS 4710-4750 Seminars 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

- MIS 4710 Brunch with an Expert Seminar** 1 s.h.
- MIS 4720 Literature Review Seminar** 1-3 s.h.
- MIS 4730 Research Seminar** 1-3 s.h.
- MIS 4740 General Topic Seminar** 1-3 s.h.
- MIS 4750 Leadership Seminar** 1 s.h.

MIS 4800 Advanced Applications Programming 3 s.h.

Advanced topics in Microsoft Visual Basic .NET Programming. Topics may include advanced techniques of file access, database applications, ActiveX Data Objects (ADO.NET) and Active Server Pages (ASP.NET). Students are required to complete hands-on demonstrations of skill. Prerequisite: MIS 3800.

MIS 4950 Information Systems Senior Seminar 3 s.h.

A capstone course covering advanced strategies and techniques of systems development and project management. Each student demonstrates competency in the core disciplines of information management, business analysis, programming, database technology, and networking. Students are required to use industry standard software to complete project assignments. Prerequisites: must be taken within final 6 hours of major.

Marketing (MKT)

MKT 2400 Principles of Retailing (HMG/MM*) 3 s.h.

MKT 2440 Principles of Marketing 3 s.h.

Study of marketing concepts, terminology, and applications, with special emphasis on the marketing mix relationships: e.g., product, price, promotion, and distribution. Introduction to the role and operation of marketing functions and their respective influence on the organization, both internally and externally. Prerequisites: ENG 1010 and 1020. Recommended prerequisite: ACC 2010 or equivalent.

MKT 2550 Consumer Behavior (HMG/MM/NFS) 3 s.h.

The study of the impact of consumer behavior (based on psychological and social forces) on the market. Analysis of the buying decision process and how it is affected by advertising, public relations, and the mass media. Emphasis on consumer-oriented legislation. Prerequisite: MKT 2440.

MKT 2620 Fashion Promotion and Coordination (MM*) 3 s.h.

MKT 3010 Specialty Merchandising (MM*) 3 s.h.

MKT 3070 Promotional Strategy 3 s.h.

A study of key promotional tools of advertising, public relations, sales, and sales promotion. Major emphasis on identifying the factors that become the basis of managerial strategy which determine promotional decisions. Prerequisites: MKT 2440 and MKT 2550.

MKT 3080 Visual Merchandising (MM*) 3 s.h.

MKT 3100 Professional Selling 3 s.h.

The study and application of professional selling theory and technique as they relate to marketing communication. Other topics include types of selling situations, customer relationship management, teleselling, customer service, ethical issues of selling and sales management. Prerequisite: MKT 2440.

MKT 3300 Sport Marketing (SM*) 3 s.h.

MKT 3480 Retail Buying (MM*) 3 s.h.

MKT 3500 Electronic Retailing (MM*) 2 s.h.

MKT 3660 Business Marketing 3 s.h.

A study of business marketing as a specialization. Examines characteristics of the industrial marketplace and emphasizes key differences from the consumer goods marketplace. Topics include: value analysis, current market analysis, marketing mix management techniques, how business organizations buy, product development, pricing, competitive bidding and control of costs, and developing and evaluating business marketing strategies. Prerequisites: ACC 2010, MGT 2360 and MKT 3070.

MKT 3730 Principles of Advertising 3 s.h.

Intended for students with career plans in advertising and related fields. Emphasis on application of theory and strategies. Students develop and apply marketing and creative skills in analyzing advertising problems and preparing advertisement concepts for consumer and business marketing. Examination of the strategic, practical, and ethical dimensions of advertising through applications. Prerequisite: MKT 3070.

MKT 3870 Sales Management 3 s.h.

Introduction to organization and direction of sales programs, involving personal selling activities and integration of sales efforts with other marketing elements of the firm, implementation of sales programs, selection of appropriate sales personnel, designing and implementing sales policies and procedures, evaluation and control of sales force performance. Prerequisites: MKT 2440 and MGT 2360.

MKT 4370 Marketing Hospitality Services (HMG*) 3 s.h.

MKT 4560 Marketing Management 3 s.h.

A study of the overall marketing strategy pertaining to problems experienced in today's economy, utilizing a case study method. Emphasis on physical distribution, cost analysis, and effective pricing. Prerequisites: QS 3550 and QS 4230, minimum of 12 s.h. in marketing, and senior standing.

MKT 4710-4750 Seminars 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

- MKT 4710 Brunch with an Expert Seminar** 1 s.h.
- MKT 4720 Literature Review Seminar** 3 s.h.
- MKT 4730 Research Seminar** 3 s.h.
- MKT 4740 General Topic Seminar** 1-3 s.h.
- MKT 4750 Leadership Seminar** 1 s.h.

MKT 4910 Cooperative Education 1 s.h.

MKT 4920 Cooperative Education 1 s.h.

Mathematics (MTH)

MTH 0950 Developmental Mathematics 3 s.h.

Emphasis on developing computational skills with whole numbers, common and decimal fractions, and pre-algebra. *For credit but not applicable toward degree.*

MTH 1040 Introduction to Algebra 4 s.h.

An introduction to algebraic thinking with a focus on concepts and processes. Problem solving is emphasized and the use of the graphing calculator is integrated throughout the course. A key issue of the course is the development of appropriate skills for later courses including operations with subsets of the real numbers and familiarity with linear functions and equations. *This course does not satisfy general education requirement and does not apply toward math major or minor.*

MTH 1050 Intermediate Algebra 4 s.h.

Second course in algebra, designed to help students develop appropriate skills with algebraic concepts and processes needed for later courses. Emphasizes problem solving, multiple representations of functions, and the use of a graphing calculator. Prerequisite: MTH 1040 within the last two years with a grade of C (2.0) or better, or placement test. *Does not apply toward math major or minor.*

MTH 1060 Trigonometry 3 s.h.

Study of trigonometric functions, their properties, inverses and graphs; trigonometric ratios, the solutions of triangles; basic identities; the sum and difference formulas; trigonometric equations. Geometric vectors and operations with complex numbers are introduced. Prerequisite: MTH 1050 or equivalent. *Does not apply toward math major or minor.*

MTH 1150 Contemporary Mathematics 3 s.h.

Designed to develop an understanding of and appreciation for the history, techniques, and applications of mathematics. Focus on a variety of real-world problems that can be solved by quantitative methods. Topics are selected from different branches of mathematics in order to bring the excitement of contemporary mathematical thinking to the non-specialist. *Satisfies the general education requirement.*

MTH 1210 Precalculus 5 s.h.

Focus on a study of functions, their inverses, graphs, and properties. Specifically, polynomial, rational, exponential, logarithmic, and trigonometric functions are explored. Students solve equations and real-world problems involving these functions. Graphing calculators are an integral part of the course. Prerequisites: two years of algebra and a course in trigonometry.

MTH 2300 Business Calculus 4 s.h.

Introduces the concepts and techniques of differential and integral calculus useful to students in business, economics, and the social sciences. Designed to give students a sound, intuitive, and geometric understanding of basic concepts and to enable students to apply a variety of techniques to practical situations. Graphing calculators are an integral part of the course. Prerequisite: MTH 1050.

MTH 2330 Learning and Teaching Number Concepts (EDU) 3 s.h.

Designed specifically for prospective elementary school teachers. Understanding and use of the underlying principles of key mathematical concepts in a problem solving environment. Focus on number sense and numeration, whole number operations, fractions and decimals, computational algorithms, patterns, relations, functions, and informal algebra. A variety of materials, activities, and strategies appropriate to teaching elementary school mathematics are used. Prerequisite: MTH 1040 or equivalent. *A requirement in the planned program for elementary school certification; it satisfies the general education requirement for students in the Elementary Teacher Education Program.*

MTH 2340 Learning and Teaching Geometric and Statistical Concepts (EDU) 3 s.h.

Second course designed specifically for prospective elementary school teachers. Understanding and use of key mathematical concepts in a problem solving environment. Focus on mathematical logic; properties of two- and three-dimensional geometric figures; similarity and congruence; motion geometry; common and metric measurement; statistical methods to describe, analyze, and use data; and probability applied in everyday life. A variety of materials, activities, and strategies appropriate to teaching elementary school mathematics are used. Prerequisites: MTH 1040 and MTH 2330. *A requirement in the planned program for elementary school certification.*

MTH 2350 Probability and Statistics 4 s.h.

The basic concepts of probability and statistics such as measures of central tendency and deviation, sampling and sampling distribution, random variables, frequency distribution, statistical inference, hypothesis testing, and applications. Designed to help individuals make decisions based on analysis of data. Use of the graphing calculator is an integral part of the course. Prerequisite: MTH 1040 or equivalent.

MTH 2510 Calculus with Analytic Geometry I 5 s.h.

A study of the concepts of the calculus including limits of functions, special limits, and continuity; the derivative; and indefinite and definite integration. Applications of these concepts with an emphasis on problem solving with the use of the graphing calculator. Prerequisite: MTH 1210 or departmental approval. *Computer Science majors must complete this course with a grade of C (2.0) or better within the first 20 hours of their major.*

MTH 2520 Calculus with Analytic Geometry II 4 s.h.

A study of the concepts of the calculus including area and volume applications of the definite integral; various techniques of integration; the calculus of the exponential and logarithmic functions, trigonometric functions and hyperbolic functions; the use of the polar coordinate system; and indeterminate forms and improper integrals. Use of the graphics calculator integrated throughout the course. Prerequisite: MTH 2510. *Computer Science majors must complete this course with a grade of C (2.0) or better within the first 20 hours of their major.*

MTH 3250 Introduction to Statistical Research 3 s.h.

An extension of statistical techniques to include analysis of variance and correlation. Develops the ability to understand and evaluate research papers. Consideration is given to legitimacy of design, appropriateness of analysis, and validity of conclusions. Prerequisite: MTH 2350.

MTH 3300 Modern Algebra 3 s.h.

Exploration of the ideas, methods, applications, and questions of modern algebra. Basic properties and theorems related to groups, rings, integral domains, and fields; the familiar number systems serve as models for the abstract systems. Students gain experience in abstract reasoning: making and testing conjectures and proving theorems. Prerequisite: MTH 2520

MTH 3330 Algebraic Thinking and Proportional Reasoning 4 s.h.

Designed specifically for elementary school teachers. Focus on building algebraic thinking through examination of patterns and relationships, logic, and functions, as well as developing appropriate symbolic forms to represent and analyze mathematical situations and structures. Multiple representations of situations are used and the interrelationships of these representations are stressed. Attention given to developing proportional reasoning by investigating number theory, ratio and proportion, and decimals and percents as extensions of the whole number system. Prerequisite: MTH 2330 and MTH 1210.

MTH 3340 Geometry for Elementary Teachers 4 s.h.
Designed specifically for elementary school teachers. Students are introduced to a variety of materials, activities, and physical models and manipulatives, and dynamic software as learning tools. Focus on analyzing characteristics and properties of two- and three-dimensional geometric objects and their measurement using different representational systems, recognizing the usefulness of transformations and symmetry in analyzing mathematical situations, and using visualization and spatial reasoning to solve problems both within and outside mathematics. Prerequisite: MTH 2330.

MTH 3410 Linear Algebra 3 s.h.
Use of multiple representations of linearity, solution of systems of linear equations, organizing data using matrices, performing matrix operations, using determinants, study of algebraic and geometric structures of vector spaces, recognizing subspaces and spanning sets, finding eigenvectors and eigenvalues, using technology to explore ideas, developing logical proofs, and applying concepts to real-life situations. Prerequisite: MTH 2520

MTH 3510 Calculus with Analytic Geometry III 4 s.h.
A study of the concepts of the calculus applied to sequences and series, and special series; vectors and analytical geometry in two and three dimensions, including vector-valued functions; partial differentiation and its applications; and multiple integration. Prerequisite: MTH 2520.

MTH 4330 Reasoning and Proof in the Elementary Mathematics Classroom 2 s.h.
Exposes K-8 pre-service and in-service teachers to mathematical reasoning and proof. Emphasis on making and investigating mathematical conjectures, developing and evaluating mathematical arguments and proofs, selecting and using various types of reasoning and methods of proof. Age-appropriate ways to foster systematic thinking, conjecturing, and marshaling of evidence are also explored. Prerequisite: MTH 1210, MTH 3330.

MTH 4340 Technology in the Elementary Mathematics Classroom 2 s.h.
Focus on the appropriate use of electronic technologies to help in teaching elementary school children to understand mathematics. Calculators, graphers and computers are used in a laboratory setting to investigate patterns; test conjectures; explore and analyze data, connect numerical, symbolic, and graphical representations; visualize geometric concepts; and investigate and solve real-world problems. Hands-on experience using and evaluating Internet resources appropriate for use in an elementary school mathematics classroom. Prerequisite: MTH 2330 or permission of instructor.

MTH 4510 Introduction to Real Analysis 3 s.h.
Development of a working knowledge of logic and the standard methods of mathematical proof; use of set theory concepts and notation; mastery of the concept of relations, especially equivalency relations; understanding the basic properties of functions and operations of functions; and study of the properties of the real number system. Prerequisite: MTH 3510.

MTH 4530 Differential Equations 3 s.h.
Relevant techniques of solving first-order differential equations, linear differential equations and linear systems, basic theories behind solution techniques to various fields. Prerequisite: MTH 2520.

MTH 4650 Foundations of College Geometry 3 s.h.
To broaden the understanding of Euclidean geometry; study finite geometries, geometric transformations and non-Euclidean geometries; write geometric proofs; apply geometric concepts to real-world situations; and explore geometric concepts and relationships using interactive software. Prerequisite: MTH 2520.

MTH 4950 Senior Seminar 2 s.h.
Designed to help students develop oral and written communication within the context of the mathematics major. An essential component of the course is the preparation and presentation of research paper. *Taken by mathematics students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

MTH 4960 Senior Seminar in Elementary Mathematics Education 2 s.h.
Students with a major to teach mathematics in the elementary school research and discuss issues and evolving practice related to the teaching and learning of mathematics. Introduction to the professional community of mathematics educators and curriculum and evaluation standards. Opportunity to explore the historical development of mathematics that includes the contributions of various cultures. Oral presentations and a research paper are required. Prerequisite: senior status in the Elementary Certification Program.

Medical Technology (MTE)

MTE 2010 Introduction to Health Care Professions (AHA*) 2 s.h.

MTE 3050 Clinical Hematology 4 s.h.
Introduction to hematology with emphasis on normal and abnormal formed elements of human blood. Laboratory practice in enumeration, identification, and interpretation of dyscrasias as they relate to the clinical situation. Prerequisite: departmental approval.

MTE 3070 Immunohematology and Serology 4 s.h.
Immunologic principles and practice of blood transfusion science for the medical technologist. Laboratory practice in antigen identification, antibody detection, cross-matching, and procedures aimed at diagnosis and treatment of hemolytic disorders. Prerequisite: departmental approval.

MTE 3090 Hemostasis and Special Procedures 4 s.h.
A study of molecular interactions involving cells, vessel walls, and biochemicals in promotion of balance between procoagulant and fibrinolytic activity. Screening and differential diagnosis of primary and secondary disorders of hemostasis. Overview of molecular diagnostics in renal and body fluid anomalies and their clinical correlates. Laboratory exercises in component and special procedures. Prerequisite: departmental approval.

MTE 3630 Clinical Chemistry I (CHM) 3 s.h.
Physiological chemistry of carbohydrates, lipids, and proteins in health and disease. Laboratory diagnosis of cardiovascular, respiratory, hepatic, and renal disorders. Prerequisite: CHM 1610 or CHM 3610, and department approval.

MTE 3650 Clinical Chemistry II (CHM) 3 s.h.
Pathophysiological diagnosis of endocrine, hematologic, bone, muscle, metabolic, and neoplastic disease. Principles of toxicology, therapeutic drug monitoring, quality assurance, and proficiency testing. Prerequisite: CHM 1610 or CHM 3610, and department approval.

MTE 3930 Clinical Internship I 4 s.h.
Supervised clinical practice for students in MLT program. Prerequisites: MTE 3050, 3070, 3090, 3630, 3650, and department approval.

MTE 3940 Clinical Internship II 4 s.h.
Supervised clinical practice in approved clinical laboratory. Prerequisite: MTE 3930 and departmental approval.

MTE 4510 Internship I 2-10 s.h.
Clinical practice in NAACLS medical technology program. Prerequisites: all MTE courses with grades of C (2.0) or better and departmental approval.

- MTE 4520 Internship II** 2-10 s.h.
Clinical practice in NAACLS medical technology program. Prerequisites: all MTE courses with grades of C (2.0) or better, MTE 4510, and departmental approval.
- MTE 4530 Internship III** 2-10 s.h.
Clinical practice in NAACLS medical technology program. Prerequisites: all MTE courses with grades of C (2.0) or better, MTE 4520, and departmental approval.
- MTE 4760 Issues in Health Care Administration (AHA*)** 3 s.h.
- MTE 4780 Educational Principles for Health Care Personnel (AHA*)** 2 s.h.
- MTE 4950 Senior Seminar** 2 s.h.
Evaluation of allied health practices and procedures with emphasis on summation and integration for the entry-level practitioner. *Required of students in the BS in CLS/MT program; to be taken in the final six hours of the program.*

Merchandising Management (MM)

- MM 1090 Introduction to Merchandising** 3 s.h.
Basic principles that influence and govern the merchandising effort; a study of the activities that make up the merchandising function.
- MM 2330 Design Principles** 3 s.h.
Basic principles of color and design as related to fashion and clothing styles. Study of apparel design process and fashion designers.
- MM 2370 Apparel Evaluation (FCS)** 3 s.h.
A study of the components of apparel, from fiber to garment construction and fit. Various quality and price levels are studied and industry terminology is emphasized.
- MM 2400 Principles of Retailing (MKT/HMG)** 3 s.h.
Principles of retail store management; emphasis is given to store location, layout, personnel, structure, buying, inventory, sales promotion, customer services, and operating expenses. Prerequisites: MGT 2360, MKT 2440.
- MM 2550 Consumer Behavior (HMG/MKT*/NFS)** 3 s.h.
- MM 2620 Fashion Promotion and Coordination (MKT)** 3 s.h.
Study of the principles, procedures, and special techniques of fashion promotion and coordination. Analysis of sources of information and responsibilities of fashion promotion personnel in various organizations.
- MM 2910 Cooperative Education** 1-4 s.h.
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- MM 3010 Specialty Merchandising (MKT)** 3 s.h.
Study of the merchandising of specialty goods and services. Specific techniques of merchandising specialty goods are analyzed from the retailer's point of view. Characteristics of specialty goods and consumer buying habits are studied. Prerequisite: MM 2400.
- MM 3050 Textiles for Consumers (FCS)** 3 s.h.
Study of the basic principles and recent developments in the textile industry consumer products arena. Properties of natural and synthetic fibers, yarn, fabric structures, and finishes related to the consumer's end use, performance requirements, and care. Analysis of con-

sumer textile legislation, identification, and labeling are covered. Prerequisite: MM 1090

- MM 3080 Visual Merchandising (MKT)** 3 s.h.
Study of the various facets of visual merchandising, encompassing retail merchandise presentation, displays, store planning, signage, lighting, and fixtures. Discussion of the merchandising and design criteria for point-of-purchase, exhibits, and special promotions. The merchandising and design aspects emphasized.
- MM 3310 History of Costume** 3 s.h.
Study of dress and accessories from ancient times to present day; emphasis on aesthetic, social, political, and economic influences; influence of recurring styles on present fashion.
- MM 3480 Retail Buying (MKT)** 3 s.h.
Merchandising functions of retail buying with emphasis on the varied techniques used for planning, executing, and evaluating merchandise. Prerequisites: CIS 2250 or 2380, MGT 2360, MKT 2440.
- MM 3500 Electronic Retailing (MKT)** 2 s.h.
Investigates the growing world of the cyber store and the scope of on-line retailing. Examination of the different types of e-tailers: traditional "bricks and mortar" store web sites, shopping service "malls" accessed through Internet service providers, and large-scale on-line auction and off-price retail sites. Goods and service e-tailors, both profit and non-profit, are analyzed. E-tail web consumers and their buying patterns are examined.
- MM 3630 Architectural Style and Interior Design (FCS/HMG)** 4 s.h.
Basic principles of design and color related to lodging interiors and exteriors; emphasis on planning, selecting, and furnishing environments for both commercial and consumer needs.
- MM 3650 Market Field Study** 2 s.h.
An in-depth study of a wholesale market district emphasizing history, creation, production, and distribution of consumer goods. On site visit for a three-to-five day period.
- MM 3750 Human Shelter and Environment (FCS*)** 4 s.h.
- MM 4300 Theories and Practices of Merchandising** 2 s.h.
Applications of merchandising planning concepts utilizing computer systems. Development of processing tasks using merchandising case studies. Simulation problem solving. Prerequisites: MM 3480, CIS 2380.
- MM 4450 Retail Management** 2 s.h.
Study of the role of the retail manager, with examination of selected current topical issues. Review of budgetary standards and techniques used for strategic planning. Emphasis placed on critical analysis and decision making. Prerequisites: MM 2400, MGT 2360.
- MM 4910 Cooperative Education** 1-4 s.h.
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- MM 4950 Seminar** 2 s.h.
In-depth consideration of controversial issues in a related field; integration and verification of exit-level competencies. *To be taken after at least 30 s.h. in the major.*

Music (MUS)

See also Music/Applied (MUAP)

MUS 1110, 1120 Theory I, II 4, 4 s.h.

Aural, visual and written approach to musicianship: sightsinging, melodic and harmonic dictation, four-part writing: triads, sevenths, modulation.

MUS 1800 Introduction to Music Technology 2 s.h.

Includes basic computer operations, study of hardware (including MIDI) and software for aural skill study, music notation and scoring, and music instruction. Basic knowledge of music fundamentals, piano keyboard, and personal computers is recommended.

MUS 2020 Music Through the Ages 3 s.h.

Introduction to music designed especially for the non-musician to increase understanding and enjoyment of music through intelligent listening habits. Includes music literature together with life and thought during major historical eras; contemporary composers and new trends.

MUS 2110, 2120 Theory III, IV 4, 4 s.h.

Advanced sight singing and dictation; four-part writing; non-harmonic tones, chromatic harmony, modulation, twentieth-century practices.

MUS 3090 Music for the Classroom Teacher (EDU) 2 s.h.

Development of the basic knowledge of the melodic, rhythmic, and harmonic elements of music; introductory experiences in reading and playing music using the autoharp, guitar, piano, and recorder. The course is particularly designed for but not limited to, the elementary school teacher. Prerequisite: EDU 2000.

MUS 3100 Diction 2 s.h.

The basics of English, Italian, German, and French lyric diction, including the use of the International Phonetic Alphabet. Designed for singers and teachers of singing.

MUS 3330 History of Music Literature I 3 s.h.

Development of music from pre-Christian beginnings through the Baroque period with emphasis on music form, style, literature, and composers.

MUS 3340 History of Music Literature II 3 s.h.

Development of music from the Classical period to the present with emphasis on musical form, style, literature, and composers.

MUS 3540 Piano Pedagogy I 2 s.h.

Intensive study of methods and materials in piano teaching as applied to beginning and intermediate students.

MUS 3550 Piano Pedagogy II 2 s.h.

Continuation of MUS 3540 as applied to the advanced student.

MUS 3630 Strings Pedagogy 2 s.h.

Group study of strings; technical differences, capabilities, peculiarities, ranges, bowings, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.

MUS 3650 Woodwinds Pedagogy 2 s.h.

Group study of winds: technical differences, capabilities, ranges, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.

MUS 3660 Brass Pedagogy 1 s.h.

Group study of brass: technical differences, capabilities, peculiarities, ranges, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.

MUS 3670 Percussion Pedagogy 1 s.h.

Group study of percussion: technical differences, capabilities, peculiarities, ranges, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.

MUS 3910, 4910 Music Management Cooperative Education I, II 2-4 s.h.

Specialized learning experiences related to music management, under supervision of authorized personnel. Prerequisite: approval of advisor.

MUS 4010 Composition and Arranging 2 s.h.

Study of musical composition through formal, harmonic, melodic, and rhythmic aspects; history of arranging for instruments and voices, with an emphasis on the application of principles. Prerequisite: four semesters of theory or departmental approval.

MUS 4020 Contrapuntal Techniques 2 s.h.

Aural and visual acquaintance with contrapuntal music of the 17th and 18th centuries; writing of music involving techniques characteristic of the period.

MUS 4030 Form and Analysis 2 s.h.

Structural elements of musical composition as applied to form, from the simple song forms to the sonata-allegro form; melodic, harmonic, and structural analysis of representative works.

MUS 4040 Conducting and Performing Techniques 2 s.h.

Integrated course with emphasis on baton technique, score reading, and arranging. Lecture 1 hour, laboratory 2 hours.

MUS 4070 Choral Techniques 2 s.h.

Integrated course in development of choral tone, blend, balance, articulation and appropriate baton techniques, score preparation, style, and rehearsal procedures.

MUS 4170 Church Music (RST) 2 s.h.

The practice of church music in Catholic and Protestant traditions; a survey of music literature for liturgical purposes; principles of church music administration and program organization.

MUS 4750 Special Topics in Music 2 s.h. (max. 8 s.h.)

Special topics in music involving material of timely, special, or unusual interest not contained in the regular course offerings.

MUS 4800 Teaching of Music at the Elementary Level 2 s.h.

Methods and materials for teaching general music in the classroom, as well as the study of standards, methods, materials, and rehearsal techniques for the elementary vocal and instrumental programs.

MUS 4850 Teaching of Music at the Secondary Level 2 s.h.

Study of standards, repertoire, techniques, and materials of choral and instrumental music for the middle and high school music programs.

MUS 4950 Music Management Seminar 2 s.h.

Through class discussion, presentations, and directed projects, students acquire information and skills pertinent to their particular interests and goals, as well as an overview of the entire music management field.

MUS 4960 Senior Seminar in Music 1 s.h.

Capstone course for all music concentrations. In-depth consideration of issues related to the senior music major's concentration. *To be taken in the student's senior year.*

Music / Applied (MUAP)

MUAP 1010, 1020, 1030, 1040 Applied Music for the Adult Beginner 2 s.h. each (max. 14 s.h. each)

Basic course with emphasis on fundamental technique and musicianship. Includes theory, technique, reading, and repertoire designed to meet the needs of the individual student. *Credit not applicable toward performance major nor toward major applied music electives.*

MUAP 10x0.05 – Piano for the Adult Beginner

MUAP 10x0.15 – Voice for the Adult Beginner

MUAP 10x0.24 – Organ for the Adult Beginner

MUAP 10x0.26 – Violin for the Adult Beginner

MUAP 10x0.28 – Guitar for the Adult Beginner

MUAP 10x0.31 – Flute for the Adult Beginner

MUAP 10x0.41 – Clarinet for the Adult Beginner

MUAP 10x0.45 – Cello for the Adult Beginner

MUAP 10x0.51 – Trumpet for the Adult Beginner

MUAP 1080 Chorale 1 s.h. (max. 14 s.h.)

Study and performance of sacred and secular choral literature; development of a discriminatory taste in music through experience in actual participation.

MUAP 1090 Voice Class I 2 s.h. (max. 14 s.h.)

Practical approach to fundamentals of good singing techniques: support, vowel formation, concepts of resonance. Emphasis is on establishment of good vocal habits and exercises for development of the singing and speaking voice.

MUAP 1100 Voice Class II 2 s.h. (max. 14 s.h.)

Continuation of Voice Class I.

MUAP 1150, 1160, 2150, 2160, 3150, 3160, 4150, 4160 Voice 2 s.h. each (max. 14 s.h. each)

Voice placement; vocalization for tone production, intonation, breath control, relaxation, resonance, vowel formation, and study of the consonants; simple songs with English diction suitable to acquired technique; introduction to the Art Song: Italian Art Song, selected arias.

MUAP 1210, 1220, 2210, 2220, 3210, 3220, 4210, 4220 Piano 2 s.h. each (max. 14 s.h. each)

Study of keyboard theory, techniques and repertoire designed to meet needs of individual students.

MUAP 1240, 1250, 2240, 2250, 3240, 3250, 4240, 4250 Organ 2 s.h. each (max. 14 s.h. each)

Organ technique; application to basic materials; congregational accompaniment; repertoire designed to meet needs of individual students.

MUAP 1260, 1270, 2260, 2270, 3260, 3270, 4260, 4270 Violin 2 s.h. each (max. 14 s.h. each)

MUAP 1280, 1290, 2280, 2290, 3280, 3290, 4280, 4290 Guitar 2 s.h. each (max. 14 s.h. each)

MUAP 1310, 1320, 2310, 2320, 3310, 3320, 4310, 4320 Flute 2 s.h. each (max. 14 s.h. each)

MUAP 1360, 1370, 2360, 2370, 3360, 3370, 4360, 4370 Saxophone 2 s.h. each (max. 14 s.h. each)

MUAP 1410, 1420, 2410, 2420, 3410, 3420, 4410, 4420 Clarinet 2 s.h. each (max. 14 s.h. each)

MUAP 1430, 1440, 2430, 2440, 3430, 3440, 4430, 4440 Viola 2 s.h. each (max. 14 s.h. each)

MUAP 1450, 1460, 2450, 2460, 3450, 3460, 4450, 4460 Cello 2 s.h. each (max. 14 s.h. each)

MUAP 1470, 1480, 2470, 2480, 3470, 3480, 4470, 4480 Harp 2 s.h. each (max. 14 s.h. each)

MUAP 1510, 1520, 2510, 2520, 3510, 3520, 4510, 4520 Trumpet 2 s.h. each (max. 14 s.h. each)

MUAP 1560, 1570, 2560, 2570, 3560, 3570, 4560, 4570 Low Brass 2 s.h. each (max. 14 s.h. each)

MUAP 1580, 1590, 2580, 2590, 3580, 3590, 4580, 4590 French Horn 2 s.h. each (max. 14 s.h. each)

MUAP 2150, 2160, 3150, 3160, 4150, 4160 Voice 2 s.h. each (max. 14 s.h. each)
Continuation of 1150, 1160; more advanced repertoire.

MUAP 2610 Lyric Theater 1 s.h. (max. 14 s.h.)

The study and performance of music for the stage, chosen from selected monologues and songs from the Broadway, cabaret, and light opera genres.

MUAP 3620 Ensemble: Instrumental Chamber Music 1 s.h. (max. 14 s.h.)

Study and performance of duos, trios, quartets, and other combinations; open to all students by audition.

MUAP 3720 Orchestra/Band 1 s.h. (max. 14 s.h.)

Rehearsal, membership, and performance in the Livonia Symphony, Plymouth Symphony, or Plymouth Community Band. By audition only.

Natural Science (NSC)

NSC 1250 Health Problems (FCS/NFS) 4 s.h.

Biological approach to health and disease in man. Study of drugs, smoking, alcohol, venereal disease, sex education, nutrition, heredity, and topics of current interest. (*For non-science majors.*)

NSC 3080 The Nature and Scope of Inquiry 3-4 s.h.

Theme-based, highly interactive interdisciplinary course designed to enable students to explore the different approaches and ways of knowing that contribute to understanding and resolving complex issues, problems or dilemmas of contemporary life. Utilizing the different modes of inquiry which characterize the various disciplines, the course involves students in readings, discussions, works of art, lectures by experts, team collaboration, and independent research. The course focuses on a compelling theme and is designed to develop the commitment to intellectual inquiry, humanistic values, and service to others as embodied in the mission of the University.

NSC 3250 The Ascent of Man 4 s.h.

Presentation of interrelationships of science and humanities throughout history. Discussion of the role of science and technology on the course of human events; course based on TV series. (*For non-science majors.*)

NSC 3730 Science Foundations I: Chemistry and Life Science (EDU) 4 s.h.

An introduction, for pre-service elementary teachers, to the basic concepts of matter: atoms, molecules, its changes, properties, and reactions. Plant and animal life, genetics, food cycle, changes in digestion, and ecosystems. Lecture 3 hours, laboratory 3 hours. Prerequisite: MTH 1040 or equivalent. (*For non-science majors.*)

NSC 3740 Science Foundations II: Astronomy, Earth Science, and Physics (EDU) 4 s.h.

A continuation of basic science concepts for pre-service elementary teachers; study of the solar system, the earth's structure, and the laws and forces which govern our planet and the universe as a whole. Lecture 3 hours, laboratory 3 hours. Prerequisite: MTH 1040 or equivalent. (*For non-science majors.*)

NSC 4950 Senior Seminar 2 s.h.

Preparation and presentation of a scientific paper. *Taken by Natural Science and Integrated Science students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Nursing (NUR)

NUR 3010 Transitions in Professional Nursing 3 s.h.

Designed to introduce the registered nurse (RN) to the foundations of baccalaureate nursing education. RNs focus on professional nursing roles within the context of complex practice settings across the care continuum. Exploration of concepts relevant to the contemporary healthcare system and skills necessary for academic and professional success. Prerequisites: BIO 2260, 2430, 2440; NFS 2230 or permission of department; PSY 2450; SOC 1010; admission to the RN-BSN program.

NUR 3030 Health Assessment 3 s.h.

Application of an organized approach to obtain an adult comprehensive health assessment. Includes a supervised practicum. Prerequisite: admission to the Nursing Major.

NUR 3040 Health Assessment for RN's 2 s.h.

The comprehensive assessment of adult patients and the development of focused assessments as related to specific pathology, based on a holistic appraisal of the adult patient. Includes a supervised practicum.

NUR 3060 Foundations of Psychosocial Care 2 s.h.

Focuses on foundations of psychosocial care and therapeutic communication in nursing practice with diverse persons (clients) in a variety of settings.

NUR 3220 Introduction to Nursing Therapeutic Interventions 6 s.h.

Focuses on concepts of wellness, health maintenance, and identification of risk factors. Fundamental nursing practices that support optimal human responses and the approaches to providing client care. Includes a supervised practicum. Prerequisites or corequisite: NUR 3030, 3060. Corequisite: NUR 3270.

NUR 3270 Introduction to Professional Nursing Seminar 2 s.h.

The role of the professional nurse in contemporary society is reviewed. Students use critical thinking to integrate fundamental concepts and Christian Humanistic values into nursing practice and their emerging professional roles. Prerequisites: NUR 3030, 3060. Corequisite: NUR 3220.

NUR 3300 Nursing Role in Pharmacologic Management 3 s.h.

Principles of pharmacology and implications for nursing practice. Prerequisites: NUR 3220 and 3270.

NUR 3310 Family Health Promotion Across the Life Span 3 s.h.

Focuses on the application of fundamentals of health promotion nursing care concepts with families within the context of community-based nursing care. Includes a supervised practicum. Prerequisite: NUR 3220, 3270.

NUR 3340 Nursing Therapeutic Interventions: Child-bearing/Maternity Nursing 3 s.h.

The development of nursing judgment in the sub-specialty area of childbearing/maternity nursing when providing preventive, restorative, and supportive nursing care to people with increasingly complex human responses. The course includes a supervised practicum. Prerequisites: NUR 3030, 3060, 3220, 3270; pre- or corequisites: NUR 3100, 3300; corequisite: NUR 3370.

NUR 3350 Nursing Therapeutic Interventions: Psychiatric/Mental Health Nursing 3 s.h.

The development of nursing judgment in the subspecialty area of psychiatric/mental health nursing when providing preventive, restorative, and supportive nursing care to people with increasingly complex human responses. The course includes a supervised practicum. Prerequisites: NUR 3030, 3060, 3220, 3270; pre- or corequisites: NUR 3100, 3300; corequisite: NUR 3370.

NUR 3370 Professional Nursing Seminar II 2 s.h.

Professional nursing practice analyzed within the context of Christian Humanism, family and community values. Corequisites: NUR 3340 and 3350.

NUR 3800 Health Promotion, Risk Reduction, and Disease Prevention 3 s.h.

Focuses on the application of nursing strategies to enhance optimum wellness across the lifespan. Integrates health promotion, risk reduction, and disease prevention principles into the care of individuals and families across the care continuum. Prerequisite: BIO 3710; admission to the RN-BSN program.

NUR 3900 Nursing Research 2 s.h.

Introduction to components of the research process with emphasis on developing the ability to critique/utilize and to participate in research as it applies to professional nursing practice.

NUR 3950 Evidence Based Nursing Practice 2 s.h.

Provides the RN the opportunity to analyze the components of the research process and methodologies relative to nursing practice with an emphasis on the bridge between theory, nursing research, and clinical decision making. Prerequisite: MTH 2350; admission to the RN-BSN program.

NUR 4120 Issues in Gerontological Nursing and Palliative Care 2 s.h.

Focuses on the care of older adults across the care continuum. Current theories examined with an emphasis on the physical, psychological, legal and social aspects of aging. Common health problems, community resources, interdisciplinary team management and quality end of life care for older adults and their families are explored. Prerequisite: admission to the RN-BSN program.

NUR 4220 Family and Community Health Nursing Concepts II 4 s.h.

Focuses on the application of critical community health nursing principles and concepts, the use of nursing process in the management of families with complex health responses within the community. Includes a supervised home care and community practicum. Prerequisites: NUR 3030, 3060, 3220, 3270, 3300, 3310, 3340, 3350, and 3370. Prerequisite or corequisite: NUR 3900, 4250. Corequisite: NUR 4270.

NUR 4250 Complex Nursing Therapeutic Interventions 6 s.h.

The use of responsible nursing judgment when providing preventive, restorative, and supportive nursing care to clients with multi-faceted human responses. The collaborative role of the nurse is emphasized. Includes a supervised practicum. Prerequisites: NUR 3030, 3060, 3220, 3270, 3300, 3310, 3340, 3350, and 3370. Prerequisite or corequisite: NUR 3900.

NUR 4270 Professional Nursing Seminar III 2 s.h.

Synthesizing nursing and related theory and research in examining the professional nursing role within the context of Christian Humanism. The health care system examined as a socio-cultural phenomenon. Prerequisites: NUR 3030, 3060, 3220, 3270, 3300, 3310, 3340, 3350, and 3370. Prerequisite or corequisite: NUR 3900, 4250. Corequisite: NUR 4220.

NUR 4300 Population Based Care 4 s.h.

Focuses on the synthesis of community, public health and nursing principles and concepts as applied to the promotion and preserving of the health of populations. Attention given to the complexity of systems of care across the continuum through frames of increasingly culturally, ethnically and socially diverse populations. Environmental, epidemiological, social, economic, political, ethical/legal, disaster and global factors examined as influences on the health of aggregates. Utilizing the nursing process, population-based interventions are introduced. Prerequisite: NUR 3800; admission to the RN-BSN or RN-MSN program.

NUR 4730 Nursing Leadership in Organizations and Communities 4 s.h.

Focuses on understanding the various leadership roles, responsibilities, and opportunities for nurses within organizations and communities. Includes the study of theories of leadership, management, health policy, and the financing of the healthcare sector that are applicable to various settings and situations. Includes field practicum activities. Prerequisite: NUR 3900, 4220, 4250, 4270.

NUR 4740 Nursing Leadership for Promoting Quality and Safety 4 s.h.

Provides the RN the opportunity to examine the various leadership roles and responsibilities for nurses within organizations and communities. Theories of leadership, management, health policy, change, finance, interdisciplinary collaboration, and the environments within which nurses work are studied through the context of quality and safety. Prerequisite: admission to the RN-BSN program.

NUR 4750 Community Health Nursing Roles 2 s.h.

Opportunities for students to work in selected aspects of assessment, planning, implementation, and evaluation of Community Health Nursing interventions for a specific population's health status. Special topics seminars are included. Prerequisite or corequisite: NUR 4730.

NUR 4930 Senior Nursing Practicum 4 s.h.

Clinical practicum focused on the integration and application of therapeutic interventions, nursing judgment, communication, civic engagement, and role development in the practice of professional nursing. Prerequisite or corequisite: NUR 4730, 4750. Corequisite: NUR 4950.

NUR 4950 Senior Seminar in Professional Nursing 2 s.h.

Sociocultural phenomena that affect the process of health and nursing care delivery in a global society. *Must be taken in the student's final semester in the program.*

NUR 4960 Emerging Issues Seminar for Professional Nursing 2 s.h.

Focuses on issues and trends affecting nursing practice, healthcare systems, and the nursing profession. Reflecting on contemporary issues, such as genetics, genomics, technology, emerging infections, client self-management, care coordination, health literacy, and scientific advances. Analyzing the influence of these issues on the roles of the baccalaureate-prepared nurse. *To be taken in the student's final semester in the RN-BSN program.*

Nutrition and Food Science (NFS)

NFS 1250 Health Problems (FCS/NSC*) 4 s.h.

NFS 2220 General Nutrition for the Health Professional 2 s.h.

A study of nutrients in foods and their involvement in the function of human body systems. Health and nutrition throughout the lifespan is discussed.

NFS 2230 Therapeutic Nutrition for the Health Professional 2 s.h.

The application of basic nutrition knowledge to diet modification as a preventative or therapeutic aid in specific disease states is discussed. Prerequisites: NFS 2220 or equivalent, and approval of advisor.

NFS 2250 Human Nutrition (FCS/HMG) 4 s.h.

Study of nutrients in foods and their involvement in the function of human body systems. Problems in and programs for meeting personal, family, national, and world nutritional needs.

NFS 2260 Introductory Food Science (FCS/HMG) 4 s.h.

Principles and procedures of food selection and preparation based on the factors that cause variation in quality. Laboratory experience in the preparation of selected food products. Lecture 3 hours, laboratory 3 hours.

NFS 2380 Maternal and Child Nutrition 3 s.h.

Study of normal growth patterns from conception to adulthood and the principles involved in meeting maternal, infant, child, adolescent nutritional needs at home or in agencies concerned with child care or education.

NFS 2420 Nutrition for the Aging (GER) 3 s.h.

Practical problems of meeting nutritional needs of older adults considering economic, physical, and psychological changes that occur with age. Study of agencies and programs concerned with meal delivery systems for the elderly.

NFS 2550 Consumer Behavior (MKT*/HMG/MM) 3 s.h.

NFS 2760 Food Service Sanitation (HMG) 2 s.h.

Control of foodborne illness in the food service industry. Specifics of Food Service Sanitation Law and the inspection report form. Most common violations and means for training and motivating employees.

NFS 2910 Cooperative Education 1-4 s.h. (max. 4 s.h.)

Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.

NFS 2930 Practicum 1-4 s.h.

Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.

NFS 3220 Nutrition Assessment 2 s.h.

An examination of the process of obtaining and interpreting nutritional data. Students gain experience with medical documentation and explore appropriate uses for nutrition support. Prerequisites: BIO 2240 and NFS 2250.

NFS 3250 Medical Nutrition Therapy I 3 s.h.

Physiological basis for modification of the normal diet as a preventive measure or therapeutic aid in certain diseases and disorders of the body. Prerequisites: BIO 2240 and NFS 3220.

NFS 3260 Advanced Food Science 3 s.h.

Principles involved in food quality, spoilage and preservation, control of foodborne illnesses. Managerial and manipulative techniques involved in formal demonstrations for teaching or promotional work. The experimental method applied in development and evaluation of selected food items. Lecture 2 hours, laboratory 3 hours. Prerequisites: CHM 1610 or 2210, NFS 2260.

NFS 3360 Lodging Management I (HMG*) 3 s.h.

NFS 3380 Methods in Nutrition Education 3 s.h.

Specialized approach for teaching nutrition principles to children of various age levels and to adults of various personal or professional interests. Development of instructional aids and teaching units. Prerequisite: NFS 2250.

NFS 3460 Food Service Management I (HMG) 3 s.h.

Purchasing standards, buying procedures, storage principles, and factors affecting quality, efficiency, and economy in quantity food production and service. Laboratory experience related to quantity food preparation and service. Safety and efficiency in the use and care of specialized equipment. Lecture 2 hours, laboratory 3 hours. Prerequisites: MGT 2360, NFS 2260.

NFS 3660	Market Field Study (HMG*)	2 s.h.
NFS 3910	Cooperative Education Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.	1-4 s.h. (max. 4 s.h.)
NFS 3930	Practicum Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.	1-4 s.h.
NFS 4250	Advanced Human Nutrition Biochemical principles involved in the metabolism of specific nutrients. Problems in applying this knowledge to particular topics in nutrition. Prerequisites: CHM 3610, BIO 2240, NFS 2250.	4 s.h.
NFS 4360	Lodging Management II (HMG*)	2 s.h.
NFS 4380	Community Nutrition Social, economic, and political aspects of public health in relation to food and nutrition; problems and programs affecting vulnerable groups such as the poor, the aged, the handicapped, pregnant teenagers, infants. Lecture and supervised practice in community setting. Prerequisite: NFS 2250.	2 s.h.
NFS 4420	Medical Nutrition Therapy II Interpretation of laboratory data for nutritional screening and assessment. Calculations for tube feedings and total parenteral nutrition. Prerequisites: CHM 3610, NFS 3250.	2 s.h.
NFS 4460	Food Service Management II (HMG) Principles of management applied to food service systems; physical facilities planning; sanitation and safety standards; organization and leadership; personnel management and cost control. Prerequisites: NFS 2260, MGT 2360.	3 s.h.
NFS 4910	Cooperative Education Supervised work experience in a professional situation related to the student's specialization area. Prerequisite: approval of advisor.	1-4 s.h.
NFS 4950	Senior Seminar Evaluation of nutrition-related legal, ethical, and research-related issues. Discussions of health care policy, delivery, and reimbursement issues. Presentation of public policy position and a critique of current research. Prerequisite: senior status.	2 s.h.

Occupational Safety and Health (OSH)

OSH 1020	Standards and Regulations OSHA/MIOSHA/NFPA standards, codes, and regulations. Rationale for the Williams-Steiger Occupational Safety and Health Act of 1970. Evolution of standards, record-keeping, compliance, and enforcement.	3 s.h.
OSH 2150	Building Construction (FS) Study of fundamental concepts of building design and construction; site selection, code compliance, architectural plans, incorporation of mechanical and power devices; terminology.	3 s.h.
OSH 2910	Cooperative Education I Field placement in either municipal, industrial, hospital, or similar settings that provide experience in the area of occupational safety. Preservice students only.	1-3 s.h.
OSH 2930	Internship I Field placement in either municipal, industrial, hospital, or similar settings that provide experience in the area of occupational safety. Preservice students only.	1-3 s.h.

OSH 3020	Field Experiences Credit awarded individuals for evidence of full-time employment of two or more years in the field of occupational safety. Documentation of competencies required.	1-3 s.h.
OSH 3110	Industrial Safety and Health (FS) A study of numerous job-related safety and health hazards associated with a wide range of occupations in industrial work environments.	3 s.h.
OSH 3210	Construction Safety Study of factors in building structures and in use of tools and materials that cause accidents. Application of regulations and standards of Michigan Department of Labor - Construction Division. Development of safety awareness to prevent or reduce accidents on construction sites.	2 s.h.
OSH 3220	Inspection and Survey of Facilities (FS) Safety and health hazards, both common and unique to various kinds of occupancies, including residential, industrial, and commercial. Includes surveying procedures, hazard recognition and evaluation, and the application of appropriate measures to assure maximum life and property safety. Prerequisite: OSH 2150 or consent of advisor.	3 s.h.
OSH 3280	Fire and Arson Investigation (FS*)	3 s.h.
OSH 3310	Safety Program Management Examination of the organizational concepts of a safety program, with emphasis on organizational safety programs, objectives, responsibilities, and implementation; accident control and reports; motivation and incentives.	3 s.h.
OSH 3500	Hydraulics and Water Supply (FS*)	3 s.h.
OSH 3520	Industrial Hygiene I Familiarization with irritating or toxic substances and various occupational stress factors causing employee discomfort or illness; emphasis on sources and the control of environmental pollution, concepts of industrial hygiene; hazard evaluation, and elimination of related problems. Prerequisites: CHM 1110, BIO 2240 or 2430 and 2440 or NSC 1250.	3 s.h.
OSH 3680	Fire Protection Systems I (FS*)	3 s.h.
OSH 3690	Fire Protection Systems II (FS*)	3 s.h.
OSH 3910	Cooperative Education II Advanced semi-professional level assignments in on-the-job application of occupational health and safety principles in an industrial, commercial, institutional setting. Preservice students only.	1-3 s.h.
OSH 3930	Internship II Advanced semi-professional level assignments in on-the-job application of occupational health and safety principles in an industrial, commercial, institutional setting. Preservice students only.	1-3 s.h.
OSH 3980	Industrial Hygiene II Techniques of instrumentation and sampling. Hands-on training in use of instruments to measure and evaluate occupational health hazards by taking samples or surveying noise level, heat exposure, oxygen deficiency, combustible vapors, ventilation, as well as toxicology and radiation sources, along with protective measures to cope with hazards for their prevention and control. Prerequisites: OSH 3520, CHM 1110, BIO 2240 or 2430 and 2440 or NSC 1250.	3 s.h.
OSH 4280	Fire and Arson Investigative Techniques (FS*)	3 s.h.
OSH 4300	Employee Occupational Health Maintenance and Medical Care Program Study of drugs, smoking, alcohol, nutritional, and substance abuse in relationship to lost time, morale, accident frequency, and security.	3 s.h.

Medical care aspects deal with pre-employment, return to work, and work limitations as well as periodic physical re-examination; providing administrative and operational guidelines for designing and implementing a health maintenance program as well as emergency and pre-hospital medical care.

OSH 4400 Tactics and Strategy (FS*) 3 s.h.

OSH 4510 Hazardous Materials I (EM/FS) 3 s.h.

Detailed knowledge for the emergency service professional: (a) identification, storage, handling, disposal, and identifying products of combustion of hazardous materials, including flammables, explosives, oxidizing, and corrosive materials; (b) methods of contingency planning for hazardous materials incidents, culminating with the use of current software to conduct table top exercises to assist in planning, mitigating, and responding to hazardous materials emergencies.. Prerequisite: CHM 1110 or equivalent.

OSH 4520 Hazardous Materials II (EM/FS) 3 s.h.

Preparation and certification at the technician level (40 hour) for emergency service professionals responding to hazardous materials incidents. Emphasis on the development of hazardous materials regulations, transportation placards, labels and markings, and hazard communication requirements. Prerequisite: EM 4510.

OSH 4900 Fire Service Management (FS*) 3 s.h.

OSH 4950 Senior Seminar 2 s.h.

Preparation and presentation of a library research paper that integrates knowledge gained in the major discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Paralegal Studies (LAW)

LAW 1000 Introduction to Paralegal Studies 3 s.h.

Introduction to the various roles of the paralegal, with an emphasis upon job functions, ethics, and skills, legal terminology, the court system.

LAW 1010 Legal Research and Writing I 3 s.h.

An introduction to the law library and the use of legal references; the techniques of legal research as used in writing letters, instruments, pleadings, briefs, and memoranda. Emphasis on State law.

LAW 2220 Domestic Relations 3 s.h.

Divorce law, including interviewing, determination of jurisdiction, counseling, investigation; drafting, serving and filing of legal papers; Friend of the Court Act and property settlements.

LAW 2350 Real Estate 3 s.h.

Interviewing and data collection, title work, mortgage work, taxation, drafting of purchase and sale agreements, closing, liability, insurance.

LAW 2410 Contractual and Commercial Relations 3 s.h.

Fundamentals and theory of the law of contracts. Sales transactions, the Uniform Commercial Code, banking transactions, consumer law, analysis of standard commercial contracts.

LAW 2550 Computer Assisted Legal Research 2 s.h.

Further development of computer assisted legal research skills utilizing Westlaw and Lexis. The student learns to select databases, find the law by using a citation, case, or popular name, formulate queries, modify queries, run searches, and use Keycite and Shepard's to update legal sources. Prerequisites: LAW 1010 and CIS 225 or 238 or equivalent.

LAW 2560 Legal Research on the Internet 2 s.h.

Introduction to the basic concepts for performing legal

and factual research on the Internet for use in legal applications.

Federal legal research as well as factual research, such as locating individuals and businesses, obtaining records, and accessing websites.

Prerequisites: LAW 1010 and CIS 2250 or 2380 or equivalent.

LAW 2570 Litigation 3 s.h.

Pre-trial, trial, appeal, and enforcement/compliance procedures for civil cases. Data collection and analysis; calendar control and scheduling; organization and coordination of exhibits; drafting of interrogatories, complaint, answer, and other pleadings.

LAW 3050 Criminal Procedures (CJ*) 3 s.h.

LAW 3210 Legal Research and Writing II 3 s.h.

Further development of research and writing skills, including analyzing a fact situation and following the evolution of a typical lawsuit. Emphasis on Federal law. Prerequisite: LAW 1010, 2570.

LAW 3450 Business Associations 3 s.h.

Pre-incorporation and incorporation procedures, directors' meetings, stockholders' meetings, public sales of securities, foreign jurisdictions, amending Articles of Incorporation and By-laws, partnership agreements, and dissolution.

LAW 3560 Intellectual Property 3 s.h.

An overview of the law of patents, trademarks, and copyrights. Focus is on the unique intellectual property problems facing inventors, writers, musicians, and artists. Prerequisite: LAW 1010.

LAW 3670 Law Office Economics and Technology 3 s.h.

Law firm utilization of computers and specialized legal software to achieve the economic practice of law. Prerequisite: CIS 2250 or 2380 or equivalent.

LAW 3700 Legal Issues for Older Adults (GER*) 2 s.h.

LAW 3860 Probate Estates 3 s.h.

Probate administration; Michigan Probate Code; gift taxes; decedents' estates, including determination of assets, federal and state death returns; fiduciary income tax returns; transfer of securities; closing documents.

LAW 3870 Will and Trust Drafting 2 s.h.

An introduction to the items to be considered in drafting wills and trusts. Inter vivos and testamentary trusts are introduced. Role playing for the initial client interview. Students draft a sample will and participate in a will contest mock trial. Prerequisite: LAW 1010.

LAW 4050 Constitutional Law (CJ*/PSC) 3 s.h.

LAW 4100 Special Problems in Law 1-3 s.h. (max 10 s.h.)

Study of selected areas of paralegal practice on a seminar basis.

LAW 4220 Torts: An Overview of Negligence 3 s.h.

The fundamentals of tort law with emphasis on application to fact situations encountered in legal practice. Areas covered are intentional interferences and defenses, negligence and defenses, strict liability, product liability, misrepresentation, defamation, wrongful death, medical malpractice, and auto negligence.

LAW 4230 Medical-Legal Concepts and Medical Records 3 s.h.

Practical applications of legal concepts to medical-legal records. Medical terminology and review of medical records are covered.

LAW 4250 Health Care Law and Public Policy (AHA*) 3 s.h.

LAW 4270 Evidence 3 s.h.

Practical use of evidentiary rules in terms of case development and the trial process, including pre-trial discovery plans, trial preparation, and trial assistance.

LAW 4560 Case Preparation and Trial 3 s.h.

An advanced course in the litigation process. An actual case is developed for trial presentation. Drafting of opening statements, closing statements, and jury instructions are covered. Prerequisite: LAW 1010.

LAW 4580 Alternative Dispute Resolution 2 s.h.

An advanced course in the pre-trial litigation process. Drafting of a concise summary of a party's factual and legal position on issues presented in an actual case. Mock presentation to an ADR panel. Prerequisite: LAW 1010.

LAW 4950 Legal Seminar and Practicum/Cooperative Education 4-6 s.h.

In-service training, demonstration of professional paralegal skills in an employment situation, self-assessment, evaluation of personal and program curriculum, strategy for continuing legal education. Practicum placement to be arranged by student. Permission of instructor required. Prerequisite: completion of 24 s.h. of LAW classes.

Philosophy (PHL)

PHL 1010 Introduction to Philosophy 3 s.h.

A study of the meaning of philosophy, basic philosophical concepts, terminology, methods, problems, systems, and schools. Core requirement for Pastoral Ministry majors and minors. *Requirement for Religious Studies majors and minors.*

PHL 1050 Philosophy of Person 3 s.h.

An analysis of human experience and nature found through examination of the questions about the nature of reality, knowledge, values, freedom, and destiny. *(Recommended for students interested in the human sciences and psychology.)*

PHL 1550 Inquiry Into Values (RST) 3 s.h.

An inquiry into the fundamental Christian philosophical values which form the foundation of Western civilization as reflected in the writings of Augustine and Aquinas. *(Recommended for students interested in religious studies.)*

PHL 2010 Logic 3 s.h.

A study of the three acts of the mind: understanding, judgment, and reasoning. Both inductive and deductive reasoning are studied and practiced. The traditional syllogism and the basics of symbolic logic are covered. Course includes a study of informal fallacies.

PHL 2210 Person and Society 3 s.h.

A study of political philosophy as conceived by the classic Greek philosophers leading up to a consideration of the philosophical supports of our American Republic. *(Recommended for students interested in history, political science, and business.)*

PHL 2260 Introduction to Political Theory and Catholic Social Thought (THL) 4 s.h.

Introduction to the basic concepts of political thought in the Western tradition, beginning with ancient Greece and Rome, continuing through medieval thinkers and early modern thought, and including political thought of the nineteenth century. Illustration of how papal political thought furnishes a Catholic intellectual response to liberal, socialist, and nationalist political thought. The course illustrates the more than two-thousand-year long dialogue between faith and reason in this area.

PHL 2850 Philosophy of Law (RST) 3 s.h.

A critical survey of the Scriptural and Natural Law traditions as well as other major philosophies of law and correction, including an interdisciplinary examination of past and contemporary penology, studying such issues as capital punishment, incarceration, and rehabilitation in view of Judeo-Christian guidelines.

PHL 2990 Principles of Catholic Social Doctrine (THL*) 3 s.h.

PHL 3150 Existentialism 3 s.h.

A study of the major themes of the philosophical approach of existential phenomenology which forms the intellectual foundation of much of modern thought and literature. *(Recommended for students interested in art, music, and literary criticism.)*

PHL 3210 Philosophy of Beauty 3 s.h.

A philosophical analysis of the theories of beauty; meanings of art objects; the creative process; art as form, expression, symbol, imitation; art in relationship to truth and morals. *(Recommended for students interested in art, music, and literary criticism.)*

PHL 3310 Philosophy of Science 3 s.h.

A study of the philosophy of science, reflecting on the philosophical presuppositions of modern scientific inquiry and a philosophical consideration of the nature of the world in which we live. *(Recommended for students interested in science and math.)*

PHL 3650 Philosophy of Knowledge 3 s.h.

An examination of the philosophical problems connected with the questions of how human beings know what they know, and how they know whether that knowledge is true or not. *(Recommended for students interested in psychology.)*

PHL 3710 Ancient and Medieval Philosophy 3 s.h.

An examination of the principal philosophies from the Pre-Socratics to the later Scholastic period. Emphasis is placed on an introduction to the basic ideas of Plato, Aristotle, Augustine, and Aquinas.

PHL 3720 Modern and Contemporary Philosophy 3 s.h.

A historical overview of the main lines of modern and contemporary thought from Descartes to Sartre. The focus is on the theories of some pivotal figures from the early rationalist and empirical schools and the later pragmatist and existentialist current.

PHL 4080 Moral Issues in Business (RST*) 3 s.h.

(Recommended for students interested in business.)

PHL 4090 Environmental Ethics (RST*) 3 s.h.

(Recommended for students interested in science.)

PHL 4110 Medical Ethics (RST*) 3 s.h.

(Recommended for students interested in health care and gerontology.)

PHL 4150 Philosophy of Religion (RST) 3 s.h.

Study of the relationship between philosophy and religion by highlighting philosophy's role in the inquiry into the validity, value, and meaning of man's concern with the existence and nature of the Ultimate Reality: God. *(Recommended for students interested in the liberal arts.)*

PHL 4230 Metaphysics (RST) 3 s.h.

The study, from a philosophical perspective, of the core issues of reality: the fundamental constituents of existence; the nature of God, truth, goodness, and the beautiful; with discussion of some of the solutions to metaphysical problems that have been proposed throughout the course of human history. Prerequisite: any other philosophy course or permission of the instructor.

PHL 4240 Thomas Aquinas 3 s.h.

A study of the writings of Thomas Aquinas, principally the *Summa Theologiae*, to gain an understanding of his positions on key issues of metaphysics, God, human nature, morality. Attention given to philosophical context, to Summa form, and to logic.

Physical Education (PED)

Physical education activity courses may be repeated, with instructor permission, up to 4 s.h. for a single course. A maximum of 6 s.h. for all such courses may be counted toward the 120 s.h. of a baccalaureate degree.

PED 1710 Introduction to Hatha Yoga 2 s.h. (max. 4 s.h.)

Introduction to the general philosophy and principles of Hatha Yoga. Students learn the value of yoga postures, relaxation techniques and breathing. Students learn how health and mental function can be positively influenced by regular yoga practice. Particular attention is given to health needs of individual students.

PED 2000 History and Principles of Physical Education 3 s.h.

Survey of the history and principles of Physical Education and how they relate to individuals with diverse needs and cultural values. Emphasis is placed on the promotion of life-long health and happiness through physical activity. Students learn strategies for planning instruction and organizing physical activities within the context of the K-12 schools. Prerequisite: ENG 1010 and ENG 1020 or equivalent.

PED 2150 Health and Wellness 3 s.h.

Health and wellness and the tools to take responsibility for one's own level of fitness. Emphasis is placed on exercise, proper nutrition, and in dealing with stress in a positive way. Students learn strategies for planning and organizing proper fitness and nutrition programs. Prerequisites: PED 2000 and BIO 2240.

PED 2350 Kinesiology 3 s.h.

Lecture course covering the principles of human motion based on the anatomical and mechanical analysis of the skeletal and muscular systems, including functional joint classification and muscle actions as prime movers, assistors, and stabilizers. Prerequisite: BIO 2240.

PED 3250 Motor Development 2 s.h.

Survey of motor development issues as they relate to self expression, development, and learning. Emphasis is placed on basic principles of physical, cognitive, social, and emotional development with attention to individual differences. Students learn strategies assessing motor skill development and planning and implementing motor skill development activities. Issues of safety are also addressed. Prerequisites : PED 2000 and BIO 2240.

PED 3350 Adapted Physical Education 3 s.h.

Basic survey of the philosophy and goals of adapted physical education, emphasizing the needs and characteristics of students with disabilities. Students learn strategies for planning and instructing activities for the disabled student. Prerequisites: PED 2000 and BIO 2240.

PED 4500 Curriculum and Instruction in Physical Education 3 s.h.

An in depth study of curriculum development with emphasis on K-12 Physical Education. Students learn to develop, implement, assess, and modify the curriculum in a manner consistent with best practices. Students explore their roles as advocates for health and wellness as it relates to the community and diverse learners. Prerequisite PED 2000, admission to Teacher Education Program or permission of instructor.

PED 4550 Theory and Techniques of Teaching Physical Education 3 s.h.

The theory of instruction, methods, and materials for providing physical education for K-12 students. The application of effective instructional theory, planning and practice of physical education, as well as sound decision making and multicultural approaches are emphasized in the field-based context. Observation of classrooms procedures, participation in simulation, and teaching provide background for physical education programs in which students are expected to teach. Students

participate in both lecture and laboratory experiences. Prerequisite PED 2000; admission to Teacher Education Program or permission of instructor.

Physics (PHY)

PHY 2530 General Physics I 4 s.h.

Fundamental methods of mechanics, molecular physics, heat, and sound. Opportunity for experiments at Argonne National Laboratory near Chicago. Lecture 3 hours, laboratory 3 hours. Prerequisites: MTH 1050 and 1060, or 1210, or the equivalent; or departmental approval. (Offered Fall Semester.)

PHY 2540 General Physics II 4 s.h.

Fundamental methods and principles of magnetism, electricity, optics, light, and atomic physics. Opportunity for experiments at Argonne National Laboratory near Chicago. Lecture 3 hours, laboratory 3 hours. Prerequisites: MTH 1050 and 1060, or 1210, or the equivalent; or departmental approval. (Offered Winter Semester.)

PHY 2710 Fundamental Electronics 4 s.h.

Study of power and energy of A.C. and D.C. circuits; introduction to diodes, transistors, transducers, and their applications in circuits and modern instruments. Lecture 3 hours, laboratory 3 hours. Prerequisite: PHY 2540 or departmental approval.

PHY 3510 Modern Physics: Atomic and Nuclear 4 s.h.

Investigation of properties of atoms and the nucleus, the changes under the influence of relativity, and the impact of the quantum theory. Applications of instruments in studying nuclear reactions. Lecture 3 hours, laboratory 3 hours. Prerequisite: PHY 2540 or departmental approval.

PHY 4510 Electronics: Digital Techniques 4 s.h.

Number systems, digital codes, and Boolean algebra used in analysis of digital logic circuits; logic gates, encoding and decoding; Flip-flops, counters, registers and integrated circuits. Introduction to interfacing. Lecture 3 hours, laboratory 3 hours. Prerequisite: PHY 2540 or equivalent; PHY 2710 recommended.

Polish Studies (POL)

POL 1010 Elementary Polish I 3 s. h.

An audio-visual, communicative presentation of modern Polish with focus on conversational skills. The basic points of Polish grammar are covered. Upon completion of the course, students are able to communicate in the following communicative situations: greetings and farewells, identification of people, speaking languages, identification of objects and their location, and visiting restaurants and hotels.

POL 1020 Elementary Polish II 3 s. h.

Continuation of POL 1010. An audio-visual, communicative presentation of modern Polish with focus on conversational skills. The basic points of Polish grammar are covered. Upon completion of the course, students are able to communicate in the following communicative situations: expressing address and location, shopping and using services, entertainment, visiting a doctor office, and traveling. Prerequisites: POL 1010.

POL 2010 Intermediate Polish I 3 s. h.

Continuation of the POL 1020 with more advanced study of grammar. Focus on writing and reading skills. Prerequisite: POL 1020 or equivalent skills.

POL 2020 Intermediate Polish II 3 s. h.

A continuation of the POL 2010 with more advanced study of reading, writing, and speaking. Prerequisite: POL 2010 or equivalent skills.

Political Science (PSC)

- PSC 1010 World Problems (HIS*)** 3 s.h.
- PSC 2350 American Judicial Process (CJ*)** 3 s.h.
- PSC 2510 American Government** 4 s.h.
Study of American political structure to include the organization, power, functions and services of national, state and local government and their interdependence in seeking solutions to contemporary social, economic, and political issues.
- PSC 3010 International Relations** 4 s.h.
Analysis of world politics, sources of foreign policy, dynamics of the existing international system, systematic theorizing about future developments.
- PSC 3210 Comparative Politics** 4 s.h.
Comparative analysis of political phenomena, emphasizing the interplay of governmental institutions, social-economic-cultural configurations, and patterns of values and ideologies.
- PSC 4050 Constitutional Law (CJ*/LAW)** 3 s.h.
- PSC 4510 State and Local Government** 4 s.h.
Analysis of state and local governments, local political forces, trends in metropolitan and suburban politics, problems in planning in an age of urbanization and governmental relations.
- PSC 4631 Global Studies: Modern Africa (HIS*)** 3 s.h.
- PSC 4632 Global Studies: Modern Asia (HIS*)** 3 s.h.
- PSC 4633 Global Studies: Modern Latin America (HIS*)** 3 s.h.
- PSC 4634 Global Studies: Modern Middle East (HIS*)** 3 s.h.

Psychology (PSY)

- PSY 1010 General Psychology** 3 s.h.
The science of behavior and mental processes: sensation and perception, learning and cognition, motivation, emotion, personality development, adjustment, and maladjustment.
- PSY 1020 Controversies in Psychology: A Critical Thinking Approach** 4 s.h.
Developing a critical thinking approach to reading, discussing, and writing about psychological literature. Recognition and evaluation of assertions, arguments, and evidence, and development in the expression of ideas verbally and in writing. Reading and discussion material on major controversies in the field, such as the role of nature vs. nurture, intelligence testing, repressed memory, continuity vs. change in personality, and the effectiveness of psychotherapy.
- PSY 1030 Tools for Success in Psychology** 1 s.h.
For psychology majors and individuals considering a psychology major. Introduction to the American Psychological Association writing style, library research skills, portfolio requirements in the psychology major, career options in the field of psychology, and ethical principles in psychology. Prerequisite or corequisite: PSY 1010 or 1020.
- PSY 2010 Introduction to Alzheimer's Disease and Other Dementia (GER*)** 1 s.h.
- PSY 2450 Life-Span Developmental Psychology** 4 s.h.
Study of the maturational and experiential influences on physical, emotional, intellectual, social, and personality development of the individual, from the prenatal period through late adulthood. Developmental tasks and theories of developmental change related to life stages. Prerequisite: PSY 1010.

- PSY 2700 Child Psychology** 4 s.h.
Principles of growth, maturation, and learning relating to child development. Interaction of hereditary and environmental factors influencing the social, cognitive, and personality development of the child. Theories and research relative to the psychology of the child from the prenatal period through late childhood. Prerequisite: PSY 1010.
- PSY 2760 Psychological Testing and Measurement** 3 s.h.
Focus on the key concepts of psychological testing and measurement, including standardization, normative samples, types of reliability and validity, and item analysis. Coverage of psychometric considerations in test construction, different types of tests and their applications, the meaning and limitations of test scores, historical background for the uses and misuses of testing. Ethical, professional, and social considerations in testing are also considered. Prerequisite: PSY 1010.
- PSY 2830 Research and Quantitative Methods I** 4 s.h.
Developing basic knowledge and skills in conducting scientific research in psychology. Emphasis on the scientific method, research ethics, research design. Development of a research proposal. Prerequisite: PSY 1010, PSY 1020 and PSY 1030.
- PSY 2840 Research and Quantitative Methods II** 4 s.h.
Developing basic knowledge and skills in conducting scientific research in psychology. Emphasis on measurement, descriptive and inferential statistics, and hypothesis testing. Development of an original research paper. Prerequisite: PSY 2830 or permission of instructor, and MTH 1040 or equivalent. Recommended prerequisite: MTH 2350.
- PSY 3010 Current Topics in Psychology** 1 s.h.
Reading and discussion of current research articles, focusing on topics in a different area of psychology each week. Topics change each time the course is offered, so it may be re-elected. Prerequisite: PSY 1010.
- PSY 3070 Psychology of Aging (GER*)** 3 s.h.
- PSY 3130 Adolescent Psychology (FCS)** 4 s.h.
Nature of pre-adolescent and adolescent behavior and its underlying dynamics; systematic study of modern concepts for understanding and dealing with the adolescent and pre-adolescent in our society. Emphasis on normal behavior development as it relates to the physical, emotional, social, and intellectual growth of adolescents. Prerequisite: PSY 1010.
- PSY 3310 Understanding the Challenging Child: An Introduction to Emotional Disorders in Children** 1 s.h.
A targeted introduction to selected areas of child psychopathology through the presentation of some of the most common childhood behavioral and emotional disorders, including hyperactivity, depression, anxiety, and conduct disorders. Psychological, familial, and temperamental contributions to disorders. Treatment approaches also described.
- PSY 3320 Psychology and the Law** 1 s.h.
Introduction to the basic issues and controversies at the intersection of psychology and law, including civil matters (issues of child custody, involuntary commitment to psychiatric hospitals, and the rights of patients in mental health treatment) and criminal matters (crime investigations, prosecution, and sentencing).
- PSY 3330 Psychological Issues in Child Abuse and Neglect** 1 s.h.
From a psychological perspective, examination of why child maltreatment occurs and who commits such acts, the short- and long-term

effects of child abuse/neglect, the various treatment strategies employed with abused children and their abusers, and the broad legal and societal issues raised by this phenomenon.

PSY 3340 Self-Destructive Behavior in Adolescent Girls 1 s.h.

The psychological bases for self-destructive behaviors in adolescent girls, including deliberate cutting of the skin, eating disorders, suicide and para-suicide, sexual promiscuity, gang membership, and substance abuse. Avenues for treatment and prevention also discussed.

PSY 3420 Abnormal Psychology 4 s.h.

Nature of abnormal and deviant behavior and its underlying dynamics; systematic study of modern concepts of diagnosis, understanding, treatment and prevention of abnormal behavior patterns. Emphasis on normal behavior development as delineated by psychopathology. Prerequisite: PSY 1010.

PSY 3480 Psychosocial Domains of Palliative/End-of-Life Care (HSP*) 3 s.h.

PSY 3490 Psychology of Traumatic Experiences (EM) 1 s.h.

The immediate and long term psychological effects of such traumatic events as abuse, accident, assault, crime, disaster, homicide, and suicide. The reactions of victims, witnesses, and survivors. Issues relevant to helping and healing in the aftermath of trauma are discussed. Prerequisite: PSY 1010.

PSY 3520 Industrial/Organizational Psychology (BUS) 3 s.h.

Application of concepts, theories, and methods from psychology to issues in the workplace. Topics include research methods, employee selection and assessment, performance appraisal, training and development, leadership, motivation, job satisfaction, job involvement, organizational structure, and organizational change and development. Prerequisite: PSY 1010.

PSY 3660 Social Psychology: A Psychological Perspective 4 s.h.

The influence of social factors on human behavior, including social cognition, attitude formation, social influence, interpersonal attraction, prosocial behavior, aggression, and prejudice. Focus on the individual, and on use of the experimental method. Prerequisite: PSY 1010.

PSY 3720 Introduction to Clinical Psychology 3 s.h.

An overview of current issues in the mental health field and an introduction to important skills needed by professionals in their day to day work. Students become familiar with diagnostic approaches, interviewing and clinical data gathering, types of psychological intervention, legal and ethical considerations, and how to recognize, understand and minimize psychologically inevitable gender and cultural biases often encountered in mental health settings. Prerequisite: PSY 3420.

PSY 3750 Mental Health Treatment Theories 3 s.h.

An intensive introduction to the most influential and prevalent treatment methods in the mental health field. Treatment approaches as discreet theoretical systems containing their own philosophical views of the person, conceptualizations of disorder, definitions of cure, and technical prescriptions. Problems in determining the efficacy of treatment approaches also addressed. Prerequisite: PSY 1010.

PSY 3820 Forensic Psychology (CJ/FOR) 3 s.h.

How the science of psychology is used by our legal system to better understand situations where an individual's state of mind or psychological functioning may have an impact on the legal process, the distinction between forensic and clinical work, conceptual underpinnings of forensic psychology, and the role of psychology in the legal system and controversies surrounding its use. Career paths and training issues also discussed. Prerequisite: PSY 1010 and PSY 3420.

PSY 4220 Theories of Personality 4 s.h.

An overview of the major theories of personality, the role of personality theories in development, how various personality theories can be distinguished from one another, and an evaluation of these theories. Prerequisites: PSY 1010, junior or senior standing.

PSY 4300 Cognitive Psychology 4 s.h.

All aspects of human thinking, including attention, perception, memory, knowledge, language, problem solving, creativity, decision making, and intelligence. Attention given to current research in areas such as mood-dependent memory, the power of suggestion in creating false memories, speed reading, and learning vocabulary, as well as the application of cognitive principles in everyday life. Course includes an on-line laboratory component in which students participate in a variety of experimental studies in various areas of cognitive psychology. Prerequisite: PSY 1010.

PSY 4500 Physiological Psychology (BIO) 3 s.h.

Ways in which behavior is influenced by physiological processes within the body and by the evolution of the species. Study of the nervous system; sensory and motor systems; biological mechanisms influencing daily activity rhythms, motivation, emotion, learning, gender identity. Normal and abnormal brain functioning. Prerequisites: PSY 1010 and BIO 2240 or BIO 2430.

PSY 4700, 4710 Mental Health Field Placement and Seminar I, II 5, 5 s.h.

An 8-hour-per-week intensive field placement experience in a clinical setting, to develop students' clinical interaction skills and prepare them for jobs in the mental health field. Includes a weekly, three-hour seminar which augments supervision provided at the placement sites and provides additional support for students: developing the ability to understand clinical material, documenting interactions, presenting clinical observations, and preparing case reports and assessments. Prerequisites: PSY 4700 requires PSY 3720 pre- or co-requisite and permission of the instructor. PSY 4710 requires PSY 4700.

PSY 4850, 4860 Advanced Research and Quantitative Methods I, II 3, 3 s.h.

In preparation for graduate studies, students develop advanced knowledge and skills in conducting scientific research in psychology. Emphasis placed on critical review and analysis of the scientific method, research ethics, research design, and measurement. Descriptive and inferential statistics are reviewed, and multivariate statistical techniques are introduced. Application and synthesis for each student involving the development of a research proposal that qualifies as original research. Prerequisite: PSY 2840.

PSY 4950 Seminar in Psychology 2 s.h.

The capstone of the Psychology Major. A review and consolidation of material covered throughout the major. Preparation of a portfolio, including refining work completed for courses in the major and reflective writing on the departmental goals for the major. Includes focus on graduate school preparation and continued professional development. Prerequisite: senior standing.

Quality and Operations Leadership (QOM)

QOM 3560 Teaming 3 s.h.

To study the concepts and practice the skills for functioning and leading as family teams, cross-functional teams, task forces, and ad hoc teams for continuous improvement. Focus on goals, roles, communication, problem solving, decision making, planning, conflict management, innovation, and facilitating meetings.

QOM 3630 Materials and Purchasing Management 3 s.h.
 Relationship and coordination of purchasing to other business functions. Includes qualitative and quantitative procedures for determining need, selection of sources, storage of materials. Prerequisites: MGT 2360; MTH 2350 or QS 3550.

QOM 4230 Quality and Process Improvement Techniques 3 s.h.
 Study of continuous process improvement, process management, and quality management systems. Includes case studies and group work which explore data analysis tools and methods, including SPC, flow-charting, and root-causes analysis. Students define, analyze, and evaluate a process in a workplace setting, preparing a final report outlining the process and recommending process improvement. Prerequisite: QS 3550.

Quantitative Systems (QS)

QS 3550 Applied Business Statistics 3 s.h.
 Applied study of computerized statistical analyses as they relate to general business operations. Statistical procedures include descriptive statistics, t-test, ANOVA, two-way ANOVA, chi-square, simple correlation. Case study methodology is heavily employed. A computerized data analysis project which uses a minimum of two statistical tests is required. Prerequisites: CIS 2380, MTH 2350, and junior standing.

QS 4220 Human Resources Selection, Tests, and Measurements 3 s.h.
 Study of occupational/attitudinal surveying, testing, and evaluation: studies of validity, reliability, internal/external designs, item analysis, factor analysis, quantitative and qualitative analytical approaches. Course work includes measurement and development of instrumentation as applied to business-related issues. Students design and implement an original instrument applicable to either the private or public sector. Prerequisites: MGT 3020, MGT 3100, and QS 3550.

QS 4230 Marketing Research 3 s.h.
 Study of both consumer and industrial marketing research, covering areas of problem definition, survey design, sampling questionnaires, data collection, quantitative and qualitative analysis, graphics design, and report writing/presenting. A high level of analytical expertise is required: students complete an original market research study and offer a formal presentation. Prerequisites: MKT 2550, MKT 3100, and QS 3550.

Radiography (RT)

RT 1100 Radiography I 8 s.h.
 Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 1150 Radiography II 8 s.h.
 Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 1500 Radiography III 8 s.h.
 Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 2000 Radiography IV 8 s.h.
 Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 2940 Internship I 1-6 s.h.
 Supervised advanced clinical practice in approved radiography/nuclear medicine facility. Prerequisite: departmental approval.

RT 3940 Internship II 1-6 s.h.
 Supervised advanced clinical practice in approved radiography/nuclear medicine facility. Prerequisite: departmental approval.

Radiography (RTE)

RTE 1100 Introduction to Radiography 5 s.h.
 Medical terminology, nursing arts, safety, digital techniques, and techniques. *Course number used with Prior Learning evaluation.*

RTE 1150 Principles of Radiographic Exposure 5 s.h.
 Study of principles of radiographic exposure, factors affecting radiography quality, with a correlation to X-ray techniques as applied in the radiographic suite. *Course number used with Prior Learning evaluation.*

RTE 1500 Radiobiology 5 s.h.
 Structure and function of the human body; special emphasis on skeletal anatomy with integration of topographic anatomy and radiographic appearance. *Course number used with Prior Learning evaluation.*

RTE 2000 Radiographic Positioning 5 s.h.
 Study and demonstration of standard and special radiographic positioning and topographic anatomy. *Course number used with Prior Learning evaluation.*

RTE 2500 Radiologic Physics 5 s.h.
 Electricity, radiation, production of X-rays, and theory of ionizing radiation. *Course number used with Prior Learning evaluation.*

RTE 3000 Clinical Practicum 7 s.h.
 Supervised practical experience in radiographic examination with periodic evaluation of radiographs produced. *Course number used with Prior Learning evaluation.*

Religious Studies (RST)

All courses or workshops listed or cross-listed with the RST or THL rubrics may be used toward fulfillment of graduation Goal 2. Note that RST 3450, RST 3470, and all THL courses are designed basically within the Catholic tradition; all other RST courses are ecumenical in approach and of general interest.

RST 1310 Seasons of Life 2 s.h.
 Relationships, family, childhood, marriage, divorce, aging, life's seasons, examined from practical, theoretical, social, psychological, and spiritual perspectives.

RST 1320 Gospel Parables 1 s.h.
 Storytelling was a most effective tool Jesus used to inspire, teach, and console. Presentation of outstanding parables, their symbols, lessons, and key concepts.

RST 1330 Survey of Christianity 3 s.h.
 A survey approach to Christianity, its origins, teachings, customs, and rituals as well as its historical highlights and impact on world beliefs. *Not accepted for Religious Studies or Pastoral Ministry majors/minors requirement.*

RST 1340 Introduction to the Psalms 2 s.h.
 A study of ancient Hebrew poetry, its literary characteristics, symbolism, and message as they relate to communal religious and personal piety.

RST 1350 Old Testament Personalities 1 s.h.
 A study of the exploits of the patriarchs, their relationships to God, their strengths, and their weaknesses.

- RST 1450 Survey of Western Religions** 3 s.h.
Anthropology of Western religions through a study of Judaism, Christianity, and Islam, their historical backgrounds, religious beliefs, liturgies, customs, and values.
- RST 1460 Survey of Eastern Religions** 3 s.h.
A study of Hinduism, Buddhism, Confucianism, and Taoism; their meanings, values, and impact on the course of religious thought and historical development.
- RST 1550 Inquiry Into Values (PHL*)** 3 s.h.
- RST 2240 Theology of Ministry** 2 s.h.
Background study of the theology, history, and development of the Christian concept of “ministry” or service in the light of contemporary developments. Application to various spheres of ministry based on areas of ministry represented by members of the class. *Required for Pastoral Ministry majors and minors.*
- RST 2310 Praying the Scriptures** 1 s.h.
Exploration of the scriptures as a source of prayer that leads to the discovery of the mysterious beauty that is found in the heart of God Himself. Techniques and examples of reflective writing as means to help one grow in the understanding of sacred scripture and its impact on one’s life and prayer.
- RST 2560 Old Testament: Torah and Historical Writings** 3 s.h.
A scholarly study of the Hebrew Scriptures: Torah (Genesis through Deuteronomy) and the historical books (Joshua through 2 Kings). *Required for Religious Studies and Pastoral Ministry majors and minors.*
- RST 2570 Old Testament: Prophets, Wisdom, and Apocalyptic Writings** 3 s.h.
A study of major and minor prophets, Wisdom Literature, and the emergence of Apocalyptic Literature in the book of Daniel. *Required for Religious Studies majors and minors.*
- RST 2580 New Testament: The Four Gospels** 3 s.h.
A critical treatment of religious and political conditions of the first century A.D., of the Gospels and the distinctive approaches of the four evangelists to the life, message, death, and resurrection of Jesus Christ. *Required for Religious Studies and Pastoral Ministry majors and minors.*
- RST 2590 New Testament: Acts, Epistles, and Revelation** 3 s.h.
A specialized treatment of the development of the Christian Church in the first century A.D., the epistles that reflect its unique needs, and a systematic study of the background, symbolism, and impact of the Book of Revelation. *Required for Religious Studies majors and minors.*
- RST 2670 Epistles of St. Paul** 3 s.h.
Paul of Tarsus, apostle, evangelist, reformer: his life-impact on Christianity to the present time.
- RST 2850 Philosophy of Law (PHL*)** 3 s.h.
- RST 3050 The Idea of Justice (HUM*)** 4 s.h.
- RST 3100 Franciscan Values, Social Justice, and Service** 3 s.h.
A study of the life and legacy of Francis of Assisi, and its implication for current efforts aimed at building healthy communities. Contemporary dilemmas viewed through the lens of Franciscan thought and tradition (e.g., social justice, universal brotherhood, moral utilization of Earth’s resources, and concern for the needy). Focus upon the contemporary concept of “interrelatedness” and its parallels with Franciscan moral theology. Service learning based course.
- RST 3150 Spirituality** 3 s.h.
Study of theories of personality and life’s journey as related to the quest for spiritual growth and wholeness. Approaches to Christian understandings of the interrelationship of God and His people and the role of spiritual direction applied to one’s personal and professional experience. *Required for Pastoral Ministry majors.*
- RST 3310 Mary, Woman of Faith** 2 s.h.
Mary, Mother of Jesus, her role in Old Testament prophecy, New Testament literature, liturgy, tradition, art, and music.
- RST 3350 New Testament Personalities** 1 s.h.
A survey of outstanding persons mentioned in the Gospels and the Acts of the Apostles; their role in the spread of the Gospel imperative (love of God, self, neighbor) and their continuing legacy witnessed in contemporary believers.
- RST 3400 Jesus Across the Millennia** 3 s.h.
A scriptural, historical, and theological investigation into the questions, Who is Jesus? What has His impact been on history and on the lives of persons who proclaim Him Son of God, Messiah, and Savior, et al.?
- RST 3450 Catholicism** 3 s.h.
Study of the doctrines, practices, and persons formed by and reflective of the Catholic Tradition in history and the Vatican II ecumenical experience.
- RST 3470 The Sacraments** 3 s.h.
Survey of the seven sacraments in the Catholic Tradition, with an emphasis on recent developments as they evolved from history, theology, and practice.
- RST 3490 Christian Worship** 2 s.h.
An overview of the origins, development, and cultural aspects of Christian worship rooted in symbols, myths, and rituals. Students are assisted in developing various forms of worship services appropriate to their Christian traditions and their ministries. *Required for Pastoral Ministry majors.*
- RST 3500 Spiritual and Ethical Considerations in Palliative/End-of-Life Care (HSP*)** 3 s.h.
- RST 3530 Marriage and the Family (FCS/SOC)** 4 s.h.
Marriage and family studied from the Biblical, theological, economic, technological, and sociological aspects. (Interdisciplinary.) Prerequisite: junior or senior status.
- RST 3610 Pastoral Counseling** 2 s.h.
A presentation of spiritual-psychological foundations of pastoral counseling, an investigation of skills and techniques for this special type of counseling, and analysis of typical cases encountered by one involved in pastoral ministry. *Required for Pastoral Ministry majors and minors.*
- RST 4080 Moral Issues in Business (PHL)** 3 s.h.
Review traditional philosophical theories of ethics; examine principles of Christian morality, particularly those dealing with ethics from a Catholic perspective; investigate areas in the American marketplace that raise ethical concerns (e.g., injustices in the American economic system).
- RST 4090 Environmental Ethics (PHL)** 3 s.h.
A study of moral/ethical dilemmas of equitable and responsible stewardship over creation. Judeo-Christian/Franciscan, non-western perspectives of contemporary issues of war and peace, abundance and want, stewardship and domination, excess and poverty, etc., are explored.

- RST 4110 Medical Ethics (PHL)** 3 s.h.
An academic study of contemporary moral issues relative to modern health care, life science, and future issues in the light of Judeo-Christian convictions. Prerequisite: junior or senior status.
- RST 4140 Life/Death Issues** 4 s.h.
An intensive study of the many deaths one must encounter before arriving at the final stage. Practical, theoretical, social, psychological, and spiritual dimensions of life/death situations, culminating in the development of a personal life journal. Prerequisite: junior or senior status.
- RST 4150 Philosophy of Religion (PHL*)** 3 s.h.
- RST 4170 Church Music (MUS*)** 2 s.h.
- RST 4220 Christian Awareness** 3 s.h.
A study of the New Testament challenge to wholeness based on the command to love God, self, and others. Contemporary helps and hindrances to that quest examined in the light of ecumenical developments.
- RST 4230 Metaphysics (PHL*)** 3 s.h.
- RST 4280 Church Law** 2 s.h.
A study of various Christian organizations in the light of policy, rule, traditions, regulations, and procedures as they impact on the work of the Pastoral Minister. *Required for Pastoral Ministry majors.*
- RST 4290 Christian Classics** 3 s.h.
A specialized study of classical and contemporary works by outstanding Christian scholars. Students design and present a concluding work in which the classics are applied to contemporary life. *Required for Religious Studies and Pastoral Ministry majors.*
- RST 4310 Growth through Grief** 1 s.h.
The role of grief in one's life: the effects of unresolved grief, means of grief, closure, available resources to affect closure.
- RST 4720 Church Leadership** 3 s.h.
The history, theories, practices, and techniques of church-related management; specifically designed for the pastoral minister. *Required for Pastoral Ministry and Religious Studies majors.*
- RST 4830 Sharing Your Faith** 3 s.h.
Psycho-theological examination of principles of faith-related service through the application of Gospel directives, as related to students' academic fields of expertise. *Required for Religious Studies and Pastoral Ministry majors.*

Sacred Theology (THL)

All courses or workshops listed or cross-listed with the RST or THL rubrics may be used toward fulfillment of graduation Goal 2. Note that RST 3450, RST 3470, and all THL courses are designed basically within the Catholic tradition; all other RST courses are ecumenical in approach and of general interest.

Sacred Theology courses are taught at the Orchard Lake Center location.

- THL 1500 Introduction to Catholic Theology** 3 s.h.
An in-depth survey of the Catholic Faith covering such basic elements as the founding of the Church, the nature of the Church as an historical community, the Church as the covenant of God, the Church in relation to Christ, the sacraments with special emphasis on the Eucharist, the relation of Scripture to the believing Catholic, the four marks of the Church, and the covenantal order of Salvation. Additional focus on the major religious distinctions between Catholicism and Protestantism and on topics from the Catholic moral tradition, particularly sin, conscience, and virtue.

- THL 2020 Christian Ethics** 3 s.h.
A study of moral and ethical issues and the implication of human acts from a Christian perspective, including several issues within the field of medicine and bio-ethics, military ethics, and business ethics. Study of ethical schools of thought. Issues are examined in light of the Christian meaning of the person and human community.

- THL 2150 History of the Catholic Church** 3 s.h.
An examination of the history of the Catholic Church from its earliest beginnings in Palestine through the Second Vatican Council. All major and significant episodes of the history of the Church are covered, with more in-depth study of the Crusades and the Protestant Reformation. Students are also provided some familiarity with Christian thinkers who have made significant contributions to Church doctrine and theology.

- THL 2260 Introduction to Political Theory and Catholic Social Thought (PHL*)** 4 s.h.

- THL 2510 Revelation and Sacred Scripture** 3 s.h.
Introductory theology course focusing on the revelation of God to Israel and the Church. Hebrew ideas contrasted to ancient pagan views, the revelation of God to persons in the Old Testament, the New Testament and Christianity as the fulfillment of Old Testament expectations, the relationship of the Bible to the Church, and the person of Christ as the final and fullest Revelation of God to humankind.

- THL 2850 Old Testament** 3 s.h.
An introductory course on the Hebrew Scriptures: the various literary traditions that comprise the Old Testament, Hebrew theology of the covenant, history, and humanity's relationship with God in terms of election, sin, and redemption. Primary focus on the first five books of the Old Testament, the Davidic kingship, and the major prophets.

- THL 2900 New Testament** 3 s.h.
Basic overview of the scriptures of the Christian religion: the four Gospels, with attention paid to the development of the New Testament canon, the Bible in the early Church, theological themes and issues of each Gospel, and the Gospel narrative itself; the letters of Paul and the catholic letters, their authorship, dating, development, importance to the Church community, theological themes, issues, and categories; and the Book of Revelation.

- THL 2990 Principles of Catholic Social Doctrine (PHL)** 3 s.h.
An examination of the major principles of Catholic social doctrine through a study of papal and Episcopal documents. Concepts and documents are studied in their historical context.

- THL 3200 Catholic Moral Theology** 3 s.h.
Focus on Catholic moral decision making and the Catholic moral tradition. Examination of the scriptural and natural law foundation for morality, the freedom of the will, and the objective good, with an in-depth comparison of modern moral theories such as proportionate good, situation ethics, etc., with the school of moral absolutes. Consideration of such topics as sexual morality, contraception, abortion, the ethics of war and self-defense, truth-telling, and conscience and the formation of conscience.

- THL 3330 Spirituality, Prayer, and the Saints** 3 s.h.
Examination of the Catholic spiritual tradition: how unity with God is achieved and how the Christian life is lived. Focus on the nature of Christian prayer, the Liturgy, Catholic devotions, the various forms of Christian spirituality expressed by the Saints, and the spirituality of various religious orders. Several writings of the Catholic saints and mystics are read and discussed. Some attention to Protestant piety and the spiritual tradition of Eastern Orthodoxy.

THL 3333 Sacraments and Liturgy 3 s.h.

In-depth examination of the sacramental nature of the Christian faith with emphasis on the sacramentality of the Church, the historical development of the seven sacraments with special emphasis on the Eucharist, the relation of the sacraments to faith, worship, and spiritual development. Examination of current liturgical developments and issues that affect liturgical worship, including church design and architecture.

THL 3440 Mariology 3 s.h.

The life of Mary, the role of Mary in God's plan of salvation, the relationship between Christ and Mary, Mary as the model of the Church, the special place of Mary in the communion of saints, Marian piety, Mary and the role of women in the Church, the ex cathedra teachings having to do with the conception of Mary and her Assumption, Marian titles and feasts, and current issues having to do with Mary and the Christian faith, including Protestant perspectives on Mary.

THL 4100 Ecclesiology 3 s.h.

Focus on the nature of the Church, her founding, authority, the Church as presented in Scripture, her communal structure, sacramental nature, the salvific purpose of the Church, the role of the laity within the Church, relation of the Church to the Incarnation, Mary, and the Eucharist, and the nuptial order of the covenant of salvation.

THL 4220 Christology 3 s.h.

An exploration of the person of Christ and His salvific mission, the various stages of christological development within the church: the apostolic fathers and early apologists, the most important schools of Christology, the Christology of Paul and John, scholastic theology, and modern issues in Christology. Primary text is Karl Adams's *The Christ of Faith*.

THL 4930, 4940 Internship 1-3 s.h. each

Participation in a leadership (volunteer or administrative) role in a service-oriented capacity in a Catholic apostolate, ministry, or parish, usually lasting a semester. Written reflection on the experience. Required of Sacred Theology majors and minors. Prerequisite: permission from the department chair.

THL 4950 Senior Thesis 1 s.h.

A 20-25 page thesis on a topic of Catholic theology, written during senior year and required for graduation in the Sacred Theology major. Prerequisite: prior approval of topic by the department chair.

Sign Language Studies (SLS)

SLS 1000 Sign Language in Society 3 s.h.

A survey of American Sign Language and Deaf culture. Emphasis on Sign language structure, history, and usage. Discussion of a sociocultural perspective of Deaf people including readings from anthropology, sociology, linguistics, and education. Includes an examination of American attitudes toward Sign language and Deaf culture. *May be used in partial fulfillment of General Education Goal 5.B.*

SLS 1010, 1020 Beginning American Sign Language I, II 4, 4 s.h.

Development of basic ASL communication skills with appropriate vocabulary and grammatical structures. Emphasis on communicative and linguistic functions. Prerequisite or corequisite: SLS 1000. Thirty hours of laboratory practicum required for SLS 1010, 1020. *Note: 3 s.h. of SLS language courses may be used in partial fulfillment of General Education Goal 6.B.*

SLS 2010 Intermediate American Sign Language I 4 s.h.

First level of immediate instruction and review of ASL grammatical features with further development of communication functions at the intermediate level. Prerequisite: SLS 1020 or placement. Thirty hours of laboratory practicum required for SLS 2010, 2020.

SLS 2020 Intermediate American Sign Language II 4 s.h.

Second level of immediate instruction and review of ASL grammatical features with further development of communication functions at the intermediate level. Prerequisite: SLS 2010 or placement. Thirty hours of laboratory practicum required for SLS 2020.

SLS 2110 Orientation to Deafness 3 s.h.

A survey of clinical and developmental aspects of hearing and deafness. Includes discussion of basic audiology, deaf education, and communicative implications of hearing loss. Prerequisite: SLS 1000.

SLS 2280, 2290 Fingerspelling I, II 1, 1 s.h.

Concentrated instruction in practice of fingerspelling at increasing levels of complexity. Prerequisite: SLS 2010 or placement.

SLS 3010 Advanced American Sign Language I 3 s.h.

Advanced American Sign Language development with a focus on English and ASL content and text analysis to increase student vocabulary and understanding of ASL syntactical patterns. Communicative dialogues will emphasize sociocultural aspects of deafness. Prerequisite: SLS 2020 or departmental approval.

SLS 3020 Advanced American Sign Language II 3 s.h.

Continued advanced ASL development with further emphasis on sociocultural and historical considerations of deaf heritage. Prerequisite: SLS 3010 or departmental approval.

SLS 3310 Deaf Culture 3 s.h.

A survey of sociocultural factors that define Deaf persons as members of a cultural minority. Examination of Deaf history, exploration of cultural characteristics of Deaf persons, and a review of contributions of Deaf persons to American society. Prerequisite: SLS 2020. *May be used in partial fulfillment of General Education Goal 5.B.*

SLS 3450 Deafness and Community Resources 3 s.h.

History and evolution of community resource development that has become a contributing force behind social change within the Deaf Community. Covers such aspects as the Americans With Disabilities Act, related State and Federal laws, regulations and statutes that affect the lives of Deaf citizens. Service delivery systems such as education, vocational rehabilitation services, community mental health programs for Deaf persons, community service agencies (national, state, and local). Prerequisite: SLS 2020 or departmental approval.



SLS 4010 American Sign Language: Discourse 3 s.h.
Ongoing interaction in Sign Language. Students are required to prepare lectures, presentations (informative, descriptive, etc.), and conduct interviews in American Sign Language. Prerequisite: SLS 3020 or departmental approval.

SLS 4020 American Sign Language: Deaf Literature 3 s.h.
The use of American Sign Language poetry and story telling. ASL poetry is analyzed and incorporated as part of receptive/ expressive language development and advanced skills enhancement. Includes story telling techniques through the use of standard American folklore and other culturally valued forms of literature (ABC stories, "one-deaf" stories, sign play). Students evaluate existing videotapes of Deaf poets, Sign Language stories, and other esoteric aspects of Deaf culture such as sports signs. Prerequisite: SLS 3020 or departmental approval.

SLS 4030 ASL Drama 1-3 s.h.
The use of American Sign Language as a form of drama in the performing arts, including techniques of translation and the development of dramatic skills in American Sign Language. Prerequisites: SLS 3020 and or departmental approval.

SLS 4280 Simultaneous Communication 3 s.h.
Theory and application of simultaneous communication with emphasis on cognitive and sociolinguistic characteristics and its role in education. Includes analysis of the psycholinguistic implications of simultaneous communication. Prerequisite: SLS 3020 and/or departmental approval.

SLS 4410 Fundamentals of Interpretation and Transliteration 4 s.h.
Introduction to the theory, practice, and criticism of interpretation and transliteration: simultaneous and consecutive. Definition of basic terms and concepts. Study of various models of the interpreting and transliterating processes, problems of linguistic and communicative equivalence, historical foundations, and professional issues. Prerequisite: completion of SLS 3010 and/or departmental approval.

SLS 4450 Simultaneous Interpretation for Interpreters 3 s.h.
A practical course in the process of interpreting from ASL to English and from English to ASL. Emphasis is on a sociolinguistic model of interpretation. Related linguistic processes are examined. Prerequisites: SLS 4410.

SLS 4610 Voice to Sign: Interpreting Lab 3 s.h.
Development of skills in voice to Sign interpreting. Audio- and videotaped discourse is interpreted into ASL, and recorded and analyzed with the instructor. Prerequisites: SLS 4410, 3.0 average within SLS department, and/or departmental approval.

SLS 4620 Sign Language Structure 4 s.h.
Analysis of the symbolic and linguistic structure of American Sign Language and other Sign systems. Includes aspects of phonology, morphology, syntax, semantics, grammar, and discourse. Examination of bilingual and bicultural practices, sociolinguistics, and related research. Prerequisites: SLS 3010 and/or departmental approval.

SLS 4650 Contrastive Text Analysis: ASL and English for Interpreters 3 s.h.
Analysis of various texts in ASL and English to identify structures unique to one language or the other. Problems of translation and/or interpretation. Includes discussion of cross-cultural communication between deaf and hearing cultures. Prerequisite: SLS 4620.

SLS 4710 Selected Seminar Topics 1 s.h. (max. 4 s.h.)
Workshops or seminars include topics related to Sign Language and interpreting, such as linguistic research, bilingual education, and related issues. (May be repeated for credit as topics vary.)

Students are allowed to apply up to four SLS workshop credits toward SLS major requirements. Additional workshops are optional.)

SLS 4720 Interpreting for Deaf-Blind People 1-3 s.h.
Interpreting for Deaf-Blind people. Emphasis on techniques, strategies, and tactile interpreting for those people who are Deaf-Blind. Discussion of the role as intervener and special service provider for Deaf-Blind persons. Prerequisites: SLS 4610 or departmental approval.

SLS 4750 Interpreting in Specialized Settings 3 s.h.
Emphasis on specialized settings in which interpreters are expected to function. A range of interpreting settings and situations is presented, including: deaf/blind, hospital/medical, religious, and community based situations. Prerequisites: SLS 4610, B average (SLS department) and departmental approval.

SLS 4810 Sign to Voice: Interpreting Lab 3 s.h.
Focus on Sign to voice interpreting. Videotapes and in-class speakers provide interpreting exercises for the student. Sign to voice techniques discussed and put into practice. Prerequisites: SLS 4410, 3.0 average within SLS department, and/or departmental approval.

SLS 4930 Field Experience 1-16 s.h.
Observation and/or practicum in Sign language interpretation, instruction, community-based service, organization, and agency, educational program, or related area. Maintenance of daily logs and placement with on-site personnel. Prerequisite: departmental approval.

SLS 4950 Senior Seminar 2 s.h.
Capstone course for senior-level students in the Department of Sign Language Studies. Students construct electronic/video portfolios of their academic and professional work in the respective areas of concentration (either Deaf Studies or Interpreting). After passing a written comprehensive examination, the culminating demonstration of students' program accomplishments is made through a presentation to peers and faculty. *To be taken Fall semester in the student's final year of the program.*

Social Science (SSC)

SSC 3070 Social Studies Foundations (EDU) 3 s.h.
Interdisciplinary course comprising selected topics in Economics, Geography, History, Political Science, and Sociology integrated into an overview of the structure of the respective disciplines and designed to provide solid content background and resources for elementary school teachers. Prerequisites: SOC 1010, and PSC 2510 or GEO 3010.

SSC 3080 The Nature and Scope of Inquiry 3-4 s.h.
Theme-based, highly interactive interdisciplinary course designed to enable students to explore the different approaches and ways of knowing that contribute to understanding and resolving complex issues, problems, or dilemmas of contemporary life. Utilizing the different modes of inquiry which characterize the various disciplines, the course involves students in readings, discussions, works of art, lectures by experts, team collaboration, and independent research. The course focuses on a compelling theme and is designed to develop the commitment to intellectual inquiry, humanistic values, and service to others as embodied in the mission of the University.

SSC 4950 History and Social Science Seminar (HIS*) 4 s.h.
Theoretical and philosophical foundations of history and the social sciences, including a paper or project reflecting methodological skills. Prerequisite: senior status in the major.

Social Work (SW)

SW 2300 Introduction to Social Work 4 s.h.

Introduces students to the profession of social work, its Code of Ethics, values base, and commitment to social justice and working with vulnerable and oppressed groups. Explores social work's historical development as well as current trends in the profession and acquaints students with various fields of practice. Orients students to the roles of the generalist social work practitioner within a theoretical framework that consists of systems theory, the ecological perspective and the problem solving model. Emphasizes the positive value of diversity with a strengths-based approach to empowering populations at risk, including gays/lesbians, people of color, the elderly, and women. Stresses self-assessment in determining suitability for a career in social work. Includes a 30 hour service learning requirement. Prerequisites: SOC 1010, PSY 1010, or instructor's permission.

SW 2390 Empathy Listening Skills (SOC) 1 s.h.

Instruction and practice in the establishment of rapport with individuals through the use of empathic listening skills. The material is presented in the context of developing a helping relationship. Prerequisite: PSY 1010.

SW 3350 Generalist Practice Methods I 3 s.h.

The first in a sequence of four methods courses presenting the generalist model of social work practice. Students are oriented to the stages of the helping process and prepared for social work practice with individuals. Within a theoretical framework emphasizing systems theory, the ecological model and strengths based perspective, students explore the relationships between micro, mezzo, and macro level systems in order to interpret and intervene to enhance social functioning. Students learn to apply the steps of the problem solving process and how to use research-based knowledge to evaluate their practice. Students learn to work with diverse client systems by applying the knowledge, skills and values of generalist social work practice including communication, trust building, interviewing, empathy, and conflict resolution. Prerequisites: SOC 1010, PSY 1010. Prerequisite or corequisite: SW 2300.

SW 3400 Human Behavior and Social Environment I 3 s.h.

The first of two courses exploring human behavior and the social environment. This course establishes a foundation of knowledge of human development across the life course from the biophysical, psychological, and sociological perspectives in preparation for generalist social work practice. Includes an examination of the role of spirituality in human development. Emphasizes the interaction of these dimensions as they impact social functioning. Focuses on ecological systems theory as it informs the understanding of individual, family, group, organizational, and community behavior. Examines the system-wide impact of poverty, oppression, discrimination, and exploitation. Provides opportunity for students to reflect on the developmental influences that have affected their values, world view and professional development. Prerequisites: SOC 1010, PSY 1010, and BIO 1010/BIO 3150/ or NSC 1250. Prerequisite or corequisite: SW 2300.

SW 3410 Human Behavior and Social Environment II 3 s.h.

The second of two courses exploring human behavior in the social environment. This course builds upon the theories and approaches presented in HBSE I by providing a detailed examination of the influence of human diversity and culture on life cycle development and behavior. Explores the differences and similarities in the experiences, needs, and beliefs of people and stresses the positive value of diversity. Special emphasis is placed on the needs, characteristics, strengths, and capacities of populations at risk, and the issues of oppression and social justice are explored. The importance of appreciating human diversity and culture for social work practice with diverse client systems is also addressed. Prerequisite: SW 3400.

SW 3500 Social Welfare 4 s.h.

Examines the philosophical and historical basis and values of the social welfare system and the contemporary structure and functions of social programs. Identifies historical and current human needs and conditions that have made it difficult for individuals, families and communities to meet those needs resulting in use of social welfare services. Pays special attention to the dynamics and consequences of social and economic injustice, especially in relation to oppressed, discriminated against and exploited groups. Examines poverty, unemployment, income maintenance, distribution of wealth and income, and economic policy as they impact/are impacted by the social welfare system. Includes content on economic globalization and compares social welfare systems from a world perspective. Examines the literature in relation to social welfare issues and includes research skills in social welfare agency analysis. Prerequisite: SW 2300.

SW 3700 Generalist Practice Methods II 4 s.h.

The second in a sequence of four methods courses presenting the generalist model of social work practice and prepares students to work with mezzo level client systems. Students learn to apply the knowledge, skills and values of generalist social work practice in working with families and groups. Using a theoretical framework that emphasizes systems theory, the ecological model and strengths based perspective, students learn to interpret human behavior within the context and influence of the family's culture, ethnicity, world view, strengths, and developmental stages and challenges. Students develop and practice skills and methods for observing, assessing and intervening with groups and families. Prerequisite: SW 3350.

SW 4140 Conflict Resolution (SOC*/EDU) 1 s.h.

SW 4350 Generalist Practice Methods III 3 s.h.

The third in a sequence of four methods courses presenting the generalist model of social work practice and prepares students to work effectively within human service agencies. Organizational characteristics including structure, mission, climate, roles, systems, and formal and informal processes are analyzed. Students are oriented to program evaluation and complete an organizational analysis to assess organizational effectiveness, communication processes and leadership dynamics as well as the intended and unintended consequences of agency policies and practices with respect to populations at risk. Common ethical issues that arise in human service organizations are also explored and intervention strategies for effecting organizational change in furtherance of social justice are presented. Prerequisites: SW 3410, SW 3700 and admission to the Social Work Program.

SW 4500 Social Policy 4 s.h.

Explores contemporary social welfare policy in the United States and critically analyzes the social, cultural, economic, historical, political, and philosophical forces influencing its development. Discusses national and international trends and issues in social policy and distinguishes between policies, programs and institutions. Explores the relationship between social welfare policy and social work practice. Presents a framework for analyzing social policies and evaluating their intended and unintended effects particularly upon vulnerable populations including gays/lesbians, people of color, the elderly, and women. Reviews the political process and develops skills in using change and advocacy strategies to influence social policies and empower individuals, groups, families, and communities to obtain needed resources. Prerequisites: PSC 2510, SW 3500, and admission to the Social Work Program.

SW 4700 Generalist Practice Methods IV 3 s.h.

The fourth course in the sequence of social work methods courses presenting the generalist model of social work practice. It prepares students to work effectively with communities by focusing on macro systems in a diverse society. Examines various perspectives on

the meaning of community. Emphasis is on the application of planned change to communities with attention given to the inter-play between and among the micro, mezzo, and macro systems. Included is content on discrimination, exploitation, and oppression, particularly as they relate to women, people of color, gays/lesbians, the elderly, and other clients from differing social, cultural, racial, religious, spiritual, and class backgrounds. Prerequisite: SW 4350 and admission to the Social Work Program.

SW 4800, 4900 Field Practicum I, II 4, 4 s.h.

The field practicum component for senior social work students involves 200 clock hours per semester of direct service in a human service agency. Working under social work supervision, students are provided with structured learning opportunities that permit them to apply the knowledge, skills, and values of generalist social work practice in working with client systems of all sizes (individuals, groups, agencies, and communities). Students practice and refine skills in assessment, interviewing, problem solving, goal formulation and contracting, data collection, and evaluation within the context of the agency and the profession's values and ethics. Students are expected to effectively seek out and use supervision, conduct themselves professionally, and to demonstrate an active appreciation and respect for the positive value of diversity. Students are placed at their assigned practicum site fifteen hours per week for two consecutive semesters (400 hours minimum). The accompanying SW 4850/4950 Field Seminar I and II serve as the capstone courses in which students demonstrate competence in the knowledge, values, and skills of generalist beginning level social work. At the completion of this course students are prepared for beginning level Generalist Practice and/or graduate social work studies. Prerequisites: SW 2390; SW 4140; SW 3700 for 4800; SW 4350 and SW 4800 for 4900; admission to the Social Work Program; and permission to register for field. Co-requisites: SW 4850 with 4800, SW 4950 with 4900.

SW 4850, 4950 Field Practicum Seminar I, II 2, 2 s.h.

This is a weekly integrative seminar taken concurrently with Field Practicum I and II (SW 4800 and SW 4900). Students are expected to share and reflect upon the experiences and challenges of their field practicum. The focus is on evaluating and supporting the student's integration and application of the knowledge, skills, and values of generalist social work practice (learned throughout the social work curriculum) to agency practice and their beginning work with client systems. Students are expected to demonstrate the professional use of self, self-awareness, and an appreciation of diversity particularly as it relates to practice with populations at risk including people of color, women, the disabled, and gay/lesbian/bisexual/transgendered clients. Agency data, reports, forms, etc., are reviewed to further develop skills in research and program and practice evaluation strategies. Prerequisites: SW 3700 for 4850; SW 4350 and SW 4850 for 4950; admission to the Social Work Program; and permission to register for field practicum. Co-requisites: SW 4800 with 4850; SW 4900 with 4950.

SW 4870 Social Work Research 4 s.h.

Prepares the student to be an educated consumer of social work and social science research studies and provides them with skills and knowledge necessary to perform basic research and program evaluation studies. Students are oriented to the research process; quantitative and qualitative methodologies as well as ethical considerations in conducting research with human subjects. Emphasis is placed upon applied research skills such as data collection, entry, and analysis, culminating in a final, original research project that demonstrates knowledge in all steps of the research process. Prerequisites: SW 4500, CIS 2380 and admission to the Social Work Program.

Sociology (SOC)

SOC 1010 Introduction to Sociology and Cultural Anthropology 4 s.h.

Foundations and principles of social order, social control, social institutions, and social life in America and other cultures. Focus on how people's conditions, character, and life chances are influenced by organizations and institutions. Emphasis on critical thinking about practices and beliefs in a variety of social contexts. Focus areas may include: community studies, social inequality, politics and economy, cultural anthropology, and religion and science.

SOC 1300 Introduction to Community Leadership 1 s.h.

Examination of various avenues to civic involvement and their importance in maintaining civil society, with an introduction to the communitarian philosophy and to principles and best practices in service learning. Designed to prepare students to get the most out of their community service experiences.

SOC 2210 Social Problems 4 s.h.

Analysis of major social issues/problems in the US and globally from a sociological perspective. Consideration of national and international implications. Focus on issues of stratification (social class, race, gender), deviance, industrial conflict, warfare, environmental pollution, consumption. Analyses of specific social movements that respond to political and economic contradictions. Focus areas may include: media and public opinion; social inequality and justice; social control and deviance; and belief, religion, and science. May include an academic service learning component.

SOC 2300 Sport as Popular Culture (SM*) 3 s.h.

SOC 2330 Interviewing Techniques (SPH) 3 s.h.

Principles, types, and stages of interviewing; development of observation skills and communication ability using several interviewing techniques.

SOC 2390 Empathy Listening Skills (SW*) 1 s.h.

SOC 2900 Social Theory 2 s.h.

An examination of classical and contemporary sociological theory as related to understanding social changes and research methodology. Focus on how theory provides the basis for interpreting the human condition, addressing social problems, and conducting empirical research regarding human behavior. Students examine and evaluate strategies for the improvement of society. Prerequisite: SOC 1010, SOC 2210.

SOC 3130 Sociology of the Family 3 s.h.

Analysis of the family as a major social institution, with consideration of the way forms of the family vary cross-culturally. Examination of how political and economic developments impact on changes in the family. Topics include: ethnic and social class variations in structure, patterns of mate selection, parenthood, parent-child interactions, divorce, and changing gender roles.

SOC 3160 Group Dynamics and Discussion Techniques (SPH) 4 s.h.

An analysis of how groups shape identity and social norms. Focus on how group size and structure influence interaction within various types of groups: e.g. family, school, work, and community. Group discussion exercises develop proficiency in communication and group facilitation.

SOC 3210 Principles of Criminology (CJ*/FOR) 3 s.h.

SOC 3220 Race, Ethnicity and Class in American Life (HIS*) 4 s.h.

SOC 3230 Juvenile Justice (CJ*) 3 s.h.

SOC 3250 Women and Violence 2 s.h.

An examination of selected types of violence in women's lives. Analysis of the social factors influencing women's deviance, victimization, and criminality. Focus on the relationship between gender roles and violence, as well as the most common forms of violent behavior women encounter, such as rape, domestic battery, and prostitution.

SOC 3530 Marriage and the Family (RST*/FCS) 4 s.h.

SOC 3670 Social Psychology: Identity and Society 4 s.h.

Examination of the complex ways in which human beings comprehend themselves and their social environment. Focus on how one's identity is "socially constructed" in all phases of the life cycle. Emphasis on influence of culture and society on attitudes, personality and behavior, attraction, aggression, conformity, power, and dynamics of the group. Focus areas may include: media, and politics and economics. Prerequisite: SOC 1010 or PSY 1010.

SOC 3680 Social Change in the Sixties 2 s.h.

Analyses of dramatic aspects of social change in the 1960s, such as civil rights, student, anti-war, and women's movements. Social and historical contexts are considered, as well as how individuals experienced this period of change.

SOC 3710 Special Topics in Sociology 1-3 s.h. (max. 3 s.h.)

Analyses of current issues and topics from a sociological perspective. *Normally offered in a weekend format.*

SOC 3750 Religion and Society (HUM) 3 s.h.

Analysis of the social origins of religion and the human drive to seek meaning beyond the social experience. An examination of religious practices and beliefs in various historical and social contexts from a cross-cultural perspective. Topics to include: religious diversity; politics/stratification and religion; religious freedom and movements; social change and religion; science, technology and religion; and the future of religion.

SOC 3800 Sex and Gender Roles 4 s.h.

An examination of the idea of socially constructed gender roles and how these roles changed historically in response to internal contradictions, as well as political and economic forces such as the women's movement. Perspectives included from disciplines such as history, biology, anthropology, psychology, political science, and economics. Discussion of the interaction of race, ethnicity, social class, and sexual orientation with gender roles with an emphasis on multiculturalism and globalism.

SOC 4140 Conflict Resolution (EDU/SW) 1 s.h.

An interdisciplinary examination of conflict resolution with an emphasis on an applied or clinical sociology perspective. Focus on an introduction to the knowledge and skills of conflict resolution in everyday social interactions in the home and workplace. Issues of non-violence and diversity addressed.

SOC 4150 Social Gerontology (GER*) 3 s.h.

SOC 4420 Urban Community 4 s.h.

Examines historical and current patterns, structures, functions, and problems of urban communities. Emphasis on the nature of the city and consequences of urban planning on political and economic aspects in an era of scarcity and increasing diversity. Focus on both historical and contemporary conditions and life styles of cities, suburbs, and rural areas. Prerequisite: SOC 1010.

SOC 4890 Seminar in Community Leadership 3 s.h.

To prepare student for active civic engagement and eventual leadership. Purposeful civic learning through the student's service learning leadership placement and the creation of a Community Leadership Portfolio. Analysis of the role of civic engagement and community involvement in the maintenance of civil society and American democracy.

SOC 4900 Social Research Methods 4 s.h.

An examination of various research methods in sociology and related social science disciplines. Consideration of the complexity and usefulness of social research within academic and non-academic settings. Analyses of how the scientific method helps us to better understand social structure and interaction. Topics include: the nature and structure of causation and social inquiry, methods of observation, analysis of data, types of social statistics, and uses of social research. Students complete a research project and gain practical experience. Prerequisite: SOC 2210, SOC 2900.

SOC 4950 Sociology Seminar 2 s.h.

A specialized seminar for sociology majors intended to link critical areas of theoretical concern to the techniques and debates of current research and sociological knowledge. Students design and complete projects related to major areas of sociological concern, especially the nature, scope, and logic of social changes. The course includes an exploration of specific strategies to improve society. Prerequisite: SOC 4900, senior standing, and departmental approval.

Spanish (SPA)

SPA 1010, 1020 Elementary Spanish I, II 4, 4 s.h.

To be taken in sequence. Introduction of the basic skills for mastery of the Spanish language: listening, speaking, reading, and writing. Culture and civilization are also studied. At least one hour of daily language study is required. Prerequisite for SPA 1020: SPA 1010.

SPA 1110 Spanish for Law Enforcement (CJ) 1 s.h.

Prepares students with no prior knowledge of Spanish with the expressions needed to communicate at a beginner's level. Special attention to Spanish pragmatics, basic law enforcement vocabulary, and common expressions. *Not to be used toward a major or minor in Spanish.*

SPA 2230, 2240 Intermediate Spanish I, II 4, 4 s.h.

To be taken in sequence. To further the student's ability to communicate in Spanish and deepen an understanding of the culture and civilization of Spanish-speaking peoples. At least one hour of daily language study is required. Prerequisite for SPA 2230: SPA 1020 or equivalent. Prerequisite for SPA 2240: SPA 2230.

SPA 3010 Business Spanish 4 s.h.

Prepares students with an intermediate level of Spanish to use Spanish in professional situations. Special attention to technical and commercial practices that require an advanced command of Spanish (e.g., business communications, public presentations, and cultural etiquette). Opportunity for shadowing in a Spanish-speaking business. Prerequisite: SPA 2240.



- SPA 3110 Spanish Phonology** 4 s.h.
Theory and practice of modern Spanish pronunciation, intonation, and rhythm. Intensive individual practice. Prerequisite: SPA 2240.
- SPA 3200 Spanish Project** 1-4 s.h.
The Spanish Project allows a student to strengthen specific skills for language proficiency. The Project is designed to fit individual needs. Prerequisite: SPA 2240 and permission of instructor.
- SPA 3220 Spain: Culture and Civilization** 4 s.h.
Significant aspects of the geographical, historical, social, and cultural backgrounds of Spain studied for a better understanding of its civilization today. In Spanish. Prerequisite: SPA 2240.
- SPA 3230 Latin America: Culture and Civilization** 4 s.h.
Significant aspects of the geographical, historical, social, and cultural backgrounds of Latin America studied for a better understanding of its civilization today. In Spanish. Prerequisite: SPA 2240.
- SPA 3310 Oral and Written Composition** 4 s.h.
Applied advanced grammar, giving practice in original composition with emphasis on developing skill in employing natural, everyday expressions in speaking and writing through the use of correct idiomatic Spanish. Prerequisite: SPA 2240.
- SPA 3570 Literature in Spanish I (Beginnings to 1850)** 4 s.h.
Outstanding literature written in Spanish: literary genres and movements from their beginnings through the mid-nineteenth century. In Spanish. Prerequisite: SPA 2240.
- SPA 3580 Literature in Spanish II (1850-Present)** 4 s.h.
Outstanding literature written in Spanish: literary genres and movements from the mid-nineteenth century to the present. In Spanish. Prerequisite: SPA 2240.
- SPA 3600 Special Topics** 1-4 s.h.
Directed study by an advanced student pursuing an area of interest within the Spanish program (i.e., literary analysis, cultural analysis). Designed to fit the individual interests of the advanced student. In Spanish. Prerequisite: SPA 2240 and permission of instructor.
- SPA 4800 Foreign Study in Spain/Spanish America** 4-16 s.h.
Students elect a program of study in a Spanish-speaking country. Options include study during the summer and/or academic year. Prerequisite: Approval of Spanish advisor in cooperation with the Center for International Studies. Prerequisite: SPA 2240.

Special Education (SED)

The SED rubric is used for graduate courses only. See listings under EDUCATION (EDU).



Speech Communication (SPH)

- SPH 1050 Speech Communication** 3 s.h.
Principles of speech communication applied to interpersonal, group, and public speaking situations. Emphasis on preparation, delivery, persuasive techniques, listening, and responding to messages. Opportunity to practice speaking skills.
- SPH 2020 Cinema Studies (BCA*)** 3 s.h.
- SPH 2330 Interviewing Techniques (SOC*)** 3 s.h.
- SPH 2550 Oral Interpretation of Literature (ENG)** 3 s.h.
The skills of expressive reading to elicit listener response to the text, using vocal and physical expression. Prose, poetry, and drama analyzed for meaning and mood.
- SPH 2610 Television Production I (BCA*/JRN)** 3 s.h.
- SPH 3000 Children's Literature and Drama (ENG*)** 4 s.h.
- SPH 3160 Group Dynamics and Discussion Techniques (SOC*)** 4 s.h.
- SPH 3300 Public Speaking: Theory and Practice** 3 s.h.
Focus on the building of public speaking skills needed in education, personal life, and careers in order to effectively communicate thoughts and feelings. Students evaluate the communication efforts of others and increase their critical listening skills.
- SPH 3410, 3420 Acting Techniques I, II** 4, 4 s.h.
Basic forms and methods of expression, including voice projection and diction; development of individual talents in pantomime, improvisation, acting, and oral interpretation. Lecture and laboratory.
- SPH 3440 Talent and Performance for Television and Radio (BCA*)** 3 s.h.
- SPH 3610 Television Production II (BCA*/JRN)** 3 s.h.
- SPH 4010 Foundations of Mass Communication (BCA/JRN*)** 3 s.h.
- SPH 4910 Cooperative Education** 1-4 s.h.

Sport Management (SM)

- SM 1100 Introduction to Sport Management (BUS)** 3 s.h.
Exploration and analysis of sport and recreation from philosophical, historical, and organizational perspectives. Introduction to the field of sport management, examining professional opportunities available, résumé writing, and professional networking in the field.
- SM 2100 Media Relations in Sport (JRN)** 3 s.h.
The practical application of various techniques and strategies used in developing good public relations in and through sport. Communications and public relations theories and methods are presented and common public relations issues are analyzed in the professional, intercollegiate, and commercial sport industries.
- SM 2300 Sport as Popular Culture (SOC)** 3 s.h.
Sport as a significant part of popular culture. Topics include the analysis of the production and consumption of sport and leisure as an aspect of contemporary popular culture; the relationship between sport and leisure and the economy, the media and politics; and the experience of class, race, gender, ethnicity, and nationality.

SM 2910 Sport Management Practicum 1 s.h.
A work experience in a specific area of the sport industry, aimed at providing an introduction for students in the field of sport management, allowing students to encounter supervised practical experiences in a variety of sport and leisure service areas. Prerequisite: SM 1100.

SM 3100 Facility Design and Event Management (HMG) 3 s.h.
The processes for managing sport and event enterprises. Specific attention given to the design and management of a sport facility as well as the skills and processes associated with administration of a sport event, whether it be participant-centered or spectator-centered. Prerequisite: SM 1100.

SM 3300 Sport Marketing (MKT) 3 s.h.
An in-depth analysis of the various techniques and strategies of marketing in the sport environment. Basic marketing concepts examined, with applications to the uniqueness of the sport and leisure industry: event marketing, sponsorship, licensing, sport information, and public relations. Prerequisite: SM 1100.

SM 4100 Legal and Ethical Aspects of Sport (BUS) 3 s.h.
An analysis of the legal and ethical aspects of the sport environment. Topics include negligence; liability; control of amateur, professional, and school sport; violence/crowd control; product liability; risk management; and selected current issues. Prerequisites: SM 1100 and BL 3300.

SM 4260 Club Management (HMG*/MGT)

SM 4300 Budgeting and Financing of Sport (FIN) 3 s.h.
An analysis of financial concepts and theories and their application in the professional, intercollegiate, recreational, and commercial sport environments. Topics include revenues and expenses of professional, intercollegiate, and private sport industries; issues impacting these revenues and expenses; budgeting methods; economic impact; fundraising at the intercollegiate level; ownership in sport; and public and private funding for non-profit sport programs. Prerequisites: SM 1100 and ACC 2000.

SM 4500 Gender and Race in Sport 3 s.h.
Socially constructed categories of class, race, and gender, and their influence on perceptions of the body. The impact these categories have on institutionalization, practice, and representation of sport and leisure is discussed, with an emphasis on promoting unbiased and non-prejudicial sport and leisure environments. Prerequisites: SM 1100 and SM 2300.

SM 4930 Sport Management Internship 3 s.h.
On-the-job experiences with the application of principles and techniques that have been presented in course work in the sport management program. Approximately 400 clock hours, including periodic consultation with a university supervisor. Prerequisite: senior standing and at least 24 credits in the Sport Management major. Corequisite: SM 4950.

SM 4950 Seminar in Sport Management 2 s.h.
In this capstone seminar, students integrate their internship experiences in sport management with the relevant theoretical knowledge. Classroom discussion focuses on the practical application of these theories and their relevance to the "real world." Prerequisite: Senior standing and at least 24 credits in the Sport Management major. Corequisite: SM 4930.

Theology

See listing under SACRED THEOLOGY.

Television and Video Communications

See listing under Broadcast and Cinema Arts (BCA).

University (UNV)

UNV 1010 Transition to Higher Education 1 s.h.

Interactive course designed to address transition issues first-year students face when entering the University: introduction to thought-provoking, challenging, and interesting ideas to enhance critical thinking, research, writing, and presentation skills; engagement in a community of learners; and reflection on a service learning experience that fulfills the University's mission of service. The culminating assignment is a structured debate, which students prepare for throughout the course. *Required of all incoming students who are less than 24 years of age and have fewer than 13 college transfer hours (excluding Advanced Placement and dual enrollment credits), unless they are non-native speakers of English (see ESL 1010).*

