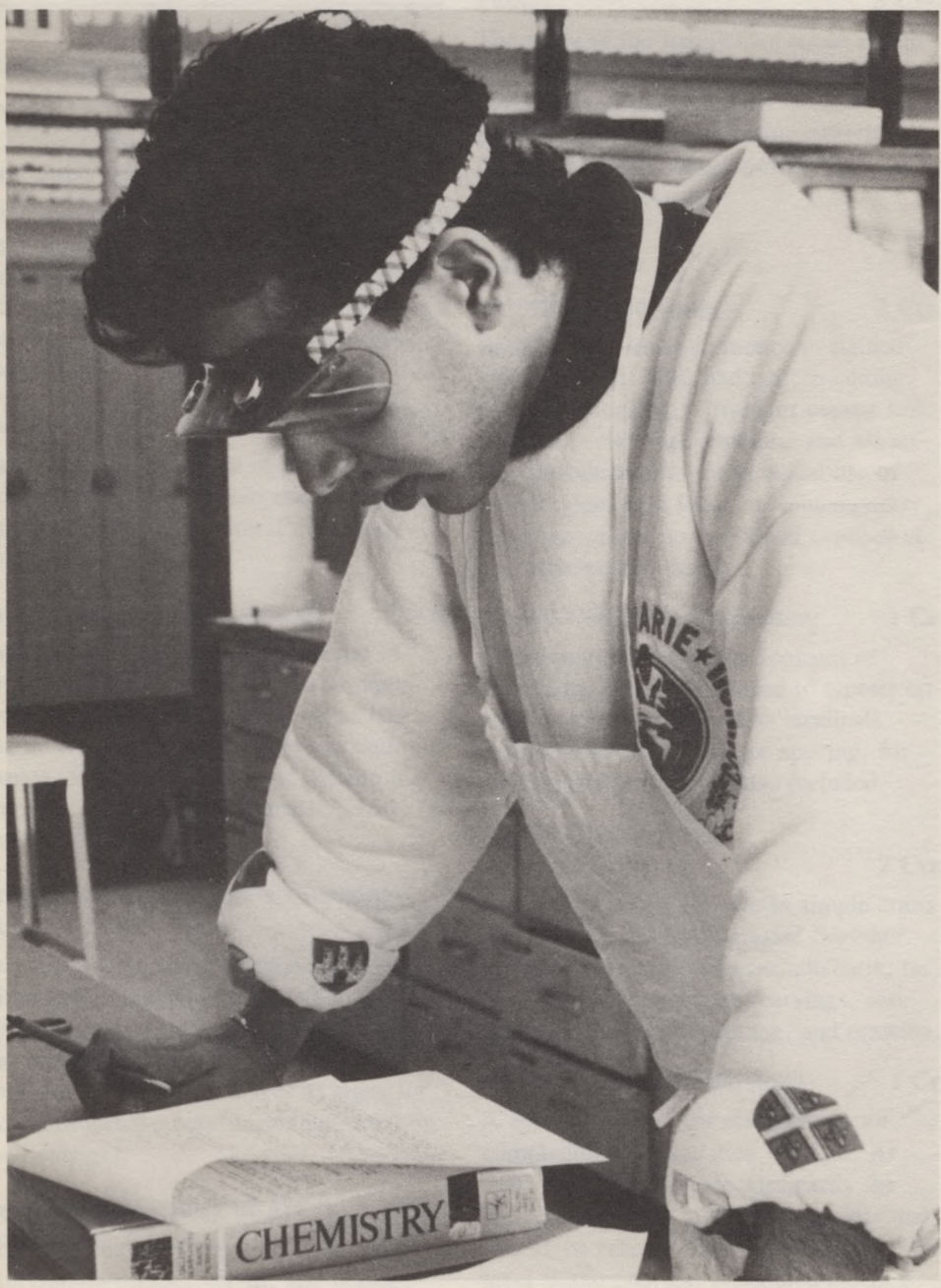

Course Descriptions 1987-1989



**Sacred
Heart
University**
Fairfield, Connecticut

Course Descriptions



College of Arts & Sciences

Anthropology Courses

An 100 An Anthropological Profile of Slavic Culture: The Ukraine, Lithuania, and Poland 3 Crs.

Anthropological analysis of Eastern Europe based upon Slavic Culture and the processes that cause this common identity to be one, but divergent; the family, religion, politics, and economics, within the three major areas of Eastern Europe.

An 101 Physical Anthropology 3 Crs.

The origin and evolution of man. Contemporary theories and developments in genetics, pre-history, and cultural differentiation.

An 102 Cultural Anthropology 3 Crs.

Study of the origin and development of human culture. Emphasis is placed upon such areas of cultural expression as language, religion, and art as well as cultural change, food acquisition, and kinship in primitive societies. Prerequisite: So 101 or An 101.

An 103 Anthropology of a Changing Culture: America Now 3 Crs.

Analysis of the major changes taking place within the dominant American Culture; the family, government, religion, education, and economics, with the anthropological implications of these changes as signs for the times and the conclusions indicated by such changes.

An 200 Anthropology of Art 3 Crs.

The study and analysis of art in its full expression—plastic, verbal, and perform-

ing—as a social barometer on man, in his relationship to self and others, and in his behavior, both personal and collective.

An 231 Anthropology of the Family 3 Crs.

The study of the family as a social institution, primary and fundamental to all other institutions. Traces the development of familial styles and contrasting patterns throughout man's development. Prerequisite: So 101 or An 101.

Art Courses

Ar 010 Stained Glass 2 Crs.

Basic techniques and practice in stained glass. Includes glass and pattern cutting, traditional leading, Tiffany or copper foil methods, soldering, antiquing and assembly. Introduction to the classical use of stained glass with focus on contemporary design as related to individual expression and architectural design.

Ar 011 Computer Typesetting 1 Cr.

Concentration on the development of knowledge and skills needed to typeset on computer photocomposition terminals. Learning the basics of type specing, formatting and paste-up is also included.

Ar 080 Contemporary Arts and Crafts 2 Crs.

A self-enrichment elective in simple crafts and painting for the interested beginner. Experimental work may include batik, tie dye, stitchery, styrofoam carvings, serigraphs, découpage, painting, and drawing.

Ar 090 Foundation Portfolio 1 Cr.

A course required for art majors upon completion of Foundation Courses: Ar 110, 111, 120 and 220. Ordinarily the course is rostered in the 4th semester and MUST be taken prior to enrollment in 300 level studio courses. Scheduled meeting

time and procedural instructions will be determined at the first session. Includes instruction in matting and presentation of art work.

Ar 101 Art in the Western World 3 Crs.

A study of the ideas and arts of those cultures that initiate and develop into the Western tradition, presented through selected illustrated examples from ancient to modern periods. Includes an analysis of the basic characteristics of the art and architecture of these eras in the context of general cultural trends.

Ar 104 American Art: Colonial to Modern 3 Crs.

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

Ar 105 History of Architecture 3 Crs.

The historical development of major architectural concepts is traced through the evolution of philosophic, political, social, and utilitarian influences.

Ar 110 Visual Organization 3 Crs.

An investigation of the compositional elements of art structure. Principles of two-dimensional design taught through a series of experimental exercises and applied problems in the visual organization of line, shape, tone, texture, and space with emphasis on their value in the communication of ideas.

Ar 111 Design: Color 3 Crs.

Discover and experiment with the interaction of shape, space, light, and texture as related to color. A study of the influence of color interaction on color perception and color symbolism with problem empha-

sis on the creation of space and pattern through value, chroma, and intensity control. Prerequisite: Ar 110.

Ar 112 Design: Three-Dimensional Graphics 3 Crs.

Exploration of the fundamental concepts of three-dimensional design. Emphasis on basic problems dealing with mass, volume, and planes in space using various materials. Prerequisite: Ar 110.

Ar 120 Drawing I 3 Crs.

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

Ar 130 Painting I 3 Crs.

An introduction to painting methods and media. Guided experimentation in several media with emphasis on content, color interaction, and properties of the media. Prerequisites: Ar 111 and Ar 120.

Ar 131 Watercolor 3 Crs.

A beginning course dealing with the basic understanding of various techniques and methods of painting with watercolors. Emphasis will be given to the process as it relates to visually defining nature forms, still life, landscape, and the human figure. Compositional elements will also be stressed. Prerequisite: Ar 120.

Ar 140 Sculpture 3 Crs.

Investigation of basic sculptural elements, concepts, and materials. Emphasis on the aesthetic and structural aspects of three-dimensional reality. Prerequisite: Ar 110.

Ar 155 Basic B/W Photography 3 Crs.

A course designed to meet the needs and interests of the beginning photography stu-

dent. Slides, discussions, and darkroom experience covering the camera, F-Stops, filters, lenses, developing, and printing. Experimentation in artificial lighting and special effects, i.e., solarization, texture screens, etc. Prerequisite: Ar 110, Art major, or permission of the department. Lab fee required.

Ar 160 Foundations in Illustration 3 Crs.

Explores the use of basic materials and techniques used in graphic illustration. Emphasis on drawing and design for the development of creative concepts and imaginative ideas. Focuses on spot illustrations, comp. work, and the use of mixed media. Prerequisite: Ar 220, Ar 111.

Ar 193 CE Cooperative Education 1-3 Crs.

A Cooperative Education program allowing students to work as regular paid employees and receive academic credit for learning derived from the work experience. Details can be obtained from the Director of Cooperative Education. In all instances, permission for an internship must be secured from the Art Internship Coordinator.

Ar 194 IN Internship 1-3 Crs.

A non-paid internship program designed to bridge the gap between study and work. The student gains practical experience in graphic design, illustration or the fine arts while working in a professional setting. Arrangements for internships are made in advance of the semester they are to be taken. Permission for an internship must be secured from the Art Internship Coordinator.

Ar 201 Studies in Modern Art 3 Crs.

An analysis of the works and questions raised by the arts of the 19th and 20th cen-

turies. The roles of modern artists as they reflect, criticize, and project or prophesize on life in the 20th century are emphasized.

Ar 204 Renaissance Art 3 Crs.

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

Ar 205 European Art: 17th-19th Century 3 Crs.

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

Ar 206 Contemporary Art 3 Crs.

Examines art currently being shown in galleries and museums. Surveys the development of the new approaches to form and analyzes the formal idea as related to execution and content. A study of European and American art from 1920 to the present. Prerequisite: Ar 201.

Ar 207 Art in Europe 3 Crs.

A travel tour designed to expand experiences in art through on-site visits and lectures. Includes supplementary readings, research, and papers. Consult the summer bulletin for destination, time, and cost.

Ar 210 Design: Letterforms 3 Crs.

Discovery of the expressive and abstract qualities of letterforms. Exploration of their use in illustration and design formats. Experience in creative lettering and calligraphy. Prerequisite: Ar 110.

Ar 211 Typography/Layout 3 Crs.

An introduction to classical and modern letterforms, the mechanics of type composition, and the fundamentals of layout.

Consideration given to the selection of proper type and layout that enhances the thought and idea and strengthens the visual presentation. Problems dealing with letterforms as design, layout, type specification, and indication. Prerequisite: Ar 110.

Ar 212 Graphic Processes 3 Crs.

An exposition of printing methods including various processes in platemaking, die-cuts, embossing, full-color process printing, and current technical innovations. Studio experience in the preparation of art copy to the printer, mechanicals, paste-ups, and color separations. Prerequisite: Ar 211.

Ar 220-221 Drawing II, III 6 Crs.

Ar 220 is a continuation and expansion of the ideas, techniques, and media related to the control of drawing as both analytical and inventive. Development of the student's ability to conceive the figure as form and volume with stress on gesture, proportion, and anatomy. Emphasis on a refinement of technique for individual expression and self-awareness. Prerequisite: Ar 120.

Ar 221 is an intensive investigation of media and form as related to the figure. Problems progress from structural ideas to more sophisticated exploitation of subject matter and finally to individual interpretation. Prerequisite: Ar 220.

Ar 222 Composition and Drawing 3 Crs.

Analyzing the major areas of composition and drawing. Expanding visual awareness by developing control of drawing as a tool for research and invention. Problems progress from simple structural analysis to more sophisticated exploitation of subject

matter and finally to individual interpretation. Prerequisite: Ar 120.

Ar 223 Three-Dimensional Drawing 3 Crs.

A course dealing with the problems of perspective (linear, atmospheric) volume and mass, cast shadows, and delineation drawing and drafting. Prerequisite: Ar 120.

Ar 230-231 Painting I, II 6 Crs.

Ar 230 continues the development of painting techniques in several media with emphasis on pictorial organization and color sensitivity. Focus on development of creativity and individuality including both objective and non-objective processes and concepts. Prerequisite: Ar 130.

Ar 231 is an advanced study toward the development of individual expression. The exploration of independent compositional ideas and technical means related to content. Critiques and evaluations are constant. Prerequisite: Ar 230.

Ar 250 Printmaking: Relief Processes 3 Crs.

An introduction of the basic graphic processes in printmaking, concentrating on the expressive aspects of various media. Explores the relief processes, including black and color woodcut techniques. Prerequisite: Ar 120.

Ar 251 Printmaking: Silkscreen 3 Crs.

A study of the processes of serigraphy, including the four basic stencil techniques and their variations: hand cut film, tusche, glue, cut, and torn paper. Also included are phototechniques using prepared films and screens. Prerequisite: Ar 111.

Ar 255 Photo Graphics 3 Crs.

A continuation and expansion of basic B/W photographic techniques in a con-

trolled setting. Covers the use of graphic films, Kodalith, Color Key, and silkscreening methods. Photographic images transferred to a silk screen for reproductive purposes will be discussed from both fine art and commercial aspects. Prerequisite: Ar 155.

Ar 260–261 Illustration I, II 6 Crs.

Ar 260 is an introduction to illustration as a communications medium. Development of effective techniques with emphasis on composition, design, and originality. General technical study of illustration and its related elements to the total format. Fundamental studio problems stressing graphic sensibility related to many levels of communication. Prerequisite: Ar 220.

Ar 261 is a development of the visual communication of ideas with emphasis on the technical and graphic means for conveying visual impact. Expanded technical usage of full color, line, and halftone methods of illustration. Problems and assigned projects related to individual interests. Prerequisite: Ar 260.

Ar 262 Head Painting and Drawing 3 Crs.

Structural painting and drawing of the head and its character. Emphasis on historical and traditional methods of representation using various media and techniques: tonal drawing, acrylic, tempera, oil, etc. Prerequisite: Ar 220.

Ar 264 Advertising Illustration 3 Crs.

Deals with the imparting of visual impact and excitement for the selling of products and services. Developing and finishing illustrations for advertising with consideration for reproduction requirements. Problems dealing with line, black and

white, limited, and full color advertising. All media. Prerequisite: Ar 261.

Ar 270–271 Graphic Design I, II 6 Crs.

Ar 270 focuses on the application of design principles as related to visual communication. Includes the development of layout techniques, paste-ups, typographic design, illustration, and photography as related to print media, package design, publication design, corporate identity systems, etc. Emphasis on the ability to create effective problem-solving concepts. Prerequisite: Ar 212.

Ar 271 develops the ability to solve specific design problems in all areas of visual communication. Establishing the idea from rough layout to tight comps and coordinating the elements to create effective visual statements. Prerequisite: Ar 270.

Ar 272 Advertising Design 3 Crs.

Explores aspects of print advertising, its creation, and presentation. Stresses concepts as related to advertising promotion. Layouts, tight comps, and presentations are required. Prerequisite: Ar 212.

Ar 273 Comp Rendering 3 Crs.

Involves the use of various techniques employed in presenting ideas to clients in a clear, precise visual language. Special emphasis will be placed on the efficient use of markers to prepare quick idea sketches and finished comp rendering. Prerequisite: AR 220.

Ar 320 Drawing IV 3 Crs.

Advanced problems of perception, structure, anatomy, and concepts in drawing the human figure. Focus on independent development of the expressive use of various

drawing media. Prerequisite: Ar 221.

Ar 330 Painting IV 3 Crs.

Studio emphasis on the development and clarification of personal and imaginative statements. Initiative and discipline toward the production of a sustained body of consistent work is expected. Includes the development of an independent painting project. Prerequisite: Ar 231.

Ar 360 Illustration III 3 Crs.

An advanced series of studio problems related to the student's specific area of illustration. Emphasis on solutions both practical and relevant to professional needs and demand. Assignments are geared for application to the student's portfolio. Prerequisite: Ar 261.

Ar 363 Editorial Illustration 3 Crs.

Illustration in conjunction with the short story. Preparation of idea sketches in relation to the text and page layout. Presentations include finished illustrations, a resume of the text, and a layout of text and illustrations. Prerequisite: Ar 261.

Ar 364 Advanced Advertising Illustration 3 Crs.

Complex problems dealing with interpretation and clarity in the visual communication of ideas. Advanced problems involving illustrative drawing and complete layout for booklets, brochures, and direct mail in

black, white, and color. Prerequisite: Ar 264.

Ar 370 Advanced Graphic Design 3 Crs.

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

Ar 390 Portfolio Preparation 3 Crs.

Development of a graduate portfolio geared toward the professional goals of the student. Includes an inventory of past assignments and suggestions for complimentary ones. Guidance from faculty and visiting professionals. Prerequisite: All required art courses in major emphasis.

Ar 391 Senior Project 3 Crs.

An in-depth study for painting majors. Encompasses problem solving and technique indicative of the ability to work as a mature and independent artist. Prerequisite: All required art courses in major emphasis.

Ar 399 Independent Study 1-3 Crs.

Individual problems performed in a classroom or private studio. Students must have completed the most advanced course in the area selected for independent work. Admission arranged in consultation with faculty.

Biology Courses

Only Biology courses with laboratories may be taken for Core credit.

Bi 001 Introduction to Horticulture 3 Crs.

A study of the basic science from which horticultural practices are derived as well as the basic techniques necessary for horticultural production. Lecture and laboratory experience in the greenhouse. NOT FOR CORE CREDIT.

Bi 005 Introduction to Nutrition 3 Crs.

A study of the basic concepts of nutrition as well as current controversies. The course includes problems of food choices in relation to body needs and of designing and consuming a balanced diet for sound nutrition throughout life. NOT FOR CORE CREDIT.

Bi 010 The Nature of Life 4 Crs.

An introduction to basic biology concepts with emphasis on the molecular and cellular nature of life, energy systems in plants and animals, origin of life, reproduction, and basic evolutionary strategies. Three lectures and two hours of experiment and discussion per week.

Bi 020 Heredity and Society 4 Crs.

A course in genetics designed for the non-science major. The material includes the physical basis of inheritance, the molecular nature of genetic information, and the effect of recent findings on

society. Three hours lecture and two hours laboratory/discussion per week.

Bi 031-032 Human Anatomy and Physiology I, II 8 Crs.

A study of the structure of cells, tissues, and organ systems, their functional interrelationships and control mechanisms. Laboratory periods provide practical experience in understanding these concepts. Required for Nursing students. Three hours lecture and one three-hour laboratory period per week. Non-Nursing students are advised to consult instructor before registering for this course.

Bi 033 Human Biology 4 Crs.

The human body systems beyond the levels of Bi 101. Physiological and biochemical considerations are correlated with anatomy and the general processes of integration and control, maintenance, and reproduction. Three hours lecture and two hours laboratory/discussion per week.

Bi 034 Human Reproduction and Development 4 Crs.

Includes anatomy of male and female sexual systems; physiology of sexual functions; sex hormones and the reproductive period; the formation, nature, and union of gametes; conception, pregnancy, and childbirth. The developing structure of the early embryonic and extra-embryonic systems is emphasized as well as types of sexual disorders and diseases. Three hours lecture and two hours laboratory/discussion per week.

Bi 050 Pollution in Fairfield County: A Practical Examination 4 Crs.

A practical examination of the main pollution problems in Fairfield county, their causes, alternate solutions, and evaluation of the favorable and unfavorable effects of

these solutions. Air, water, solid waste, and noise pollution are covered along with the problems of population density. The course material is general enough to be applicable to urban-suburban areas. Three hours lecture and two hours laboratory/discussion per week. Prerequisite: Bi 010 or college biology.

Bi 051 Introduction to Marine Biology 4 Crs.

An introduction to the biology of marine organisms with emphasis on natural history, adaptations to the environment, and ecological interrelationships. Extensive field trips will enable students to observe and study marine organisms from a variety of habitats. Three hours lecture and two hours laboratory/discussion per week.

Bi 052 Man and the Environment 4 Crs.

An inquiry into the interactions of man and environment including population and cultural problems, the use and misuse of physical, chemical, and biotic resources, and the nature of proper management systems. Three hours lecture and two hours laboratory/discussion per week.

Bi 061 Introduction to Microbiology 4 Crs.

An introduction to the study of microorganisms, their basic morphology, cultivation, metabolism, and genetics. Infectious diseases are considered. Emphasis is placed on the bacteria, viruses, and fungi. Laboratory work stresses sterile technique, microscopic, cultural, and biochemical characteristics, and control of microorganisms. Required for Nursing students.

Three hours lecture and one three-hour laboratory period per week.

Bi 080 Evolution and Survival 4 Crs.

The survival mechanisms of organisms, communities, and ecosystems as related to the nature and process of evolution. The course provides a view of evolutionary process and production in terms of adaptation, selection and extinction. Three hours lecture and two hours laboratory/discussion per week.

Bi 081 The Origin and Evolution of Man 4 Crs.

A survey of possible progenitors of man, primate evolution, roots of humanity and hominid beginnings, survey of significant discoveries of hominid fossils and tools, Great Rift Valley as the cradle of mankind, conflicting theories of the geographical origin of modern man, and the development of bipedalism and brain growth. Three hours lecture and two hours laboratory/discussion per week.

Bi 111-112 Concepts in Biology I, II 8 Crs.

An experimental approach to major concepts in modern biology from both the molecular and descriptive viewpoint. Emphasis is placed on the diversity and relationships of all living organisms. Major topics include the origin of life, cellular energetics and metabolism, homeostatic relationships, integration and coordination, mechanisms of heredity, reproduction, and evolution. The course is required of all biology majors and open to all psychology majors and with the permission of the department to other qualified students. Three hours of lecture and three hours of

laboratory per week. Prerequisite:
Permission of the department.

Bi 130 Fundamentals of Human Anatomy and Physiology 4 Crs.

A study of organ systems, their functional interrelationships, control mechanisms, and common disorders involving those systems. Laboratory periods will reinforce these concepts through practical applications of the physiological theories and demonstrations and dissection of the anatomical component of the course. Three hours of lecture and three hours of laboratory per week.

Bi 154 Introduction to Medical Technology 1 Cr.

A one semester course dealing with different aspects of medical technology. The course introduces the student to various areas of medical technology (i.e. hematology, clinical microscopy, etc.) and teaches the individual what a medical technologist does. Also included in the course are proper interviewing techniques and proper resumé writing. Only for medical technology students.

Bi 210 Botany 4 Crs.

The life of the plant will be considered from the viewpoint of both physiology and morphology. Emphasis will be on the experimental investigation of the plant's response to varying environmental conditions. Three lectures and three hours of laboratory per week. Prerequisites: Bi 111, Ch 151-3 and Ch 152-4 or permission of the department.

Bi 212 Animal Development 4 Crs.

A study of gametogenesis, embryogenesis, morphogenesis, and evolutionary differentiation among vertebrates. The biochemical control of development and the major systems are considered. Laboratory work

in gametogenesis, meiosis, cell differentiation, and organ systems in selected vertebrates. Three lectures and three hours of laboratory per week. Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4.

Bi 220 Introductory Genetics 4 Crs.

A study of Mendelian inheritance, the cytological basis of inheritance, and molecular genetics. Three hours of lecture and two hours of seminar per week. Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4. Prerequisites for medical technology majors: Bi 111, Ch 151-3 and Ch 152-4.

Bi 230 Microbiology 4 Crs.

A study of patterns of microbial physiology and ecology. Laboratory concentrates on identification of bacterial species. Three hours lecture and three hours laboratory per week. Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4. Prerequisites for medical technology majors: Bi 111, Ch 151-3 and Ch 152-4.

Bi 235 Histology 4 Crs.

A study of the microscopic anatomy of tissues, organs and cells of the human body designed to provide the student with a basic understanding of the structural correlatives of function. The laboratory introduces histological methods and gives practice in the identification of human tissues, Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4.

Bi 240 Invertebrate Biology 4 Crs.

A study of the major invertebrate phyla including a consideration of phylogenetic relationships and morphological adaptations related to the ecology or level of organization of each phylum. Laboratory and field work. Three lectures and three

hours of laboratory per week. Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4.

Bi 250 Medical Microbiology 4 Crs.

A comprehensive study of pathogenic microorganisms with the emphasis on bacteria. The laboratory deals with the extensive use of differential and selective media for the identification of these microorganisms. In addition, biochemical and select immunological tests are used to augment the preliminary ones. Three lectures and one three-hour laboratory per week. Prerequisite: Bi 230.

Bi 260 Marine Biology 4 Crs.

An introduction to biological oceanography. The interrelations of organisms of the sea and their physical and chemical environment. Emphasis is placed on the ecology and taxonomy of Connecticut estuarine fauna in the laboratory and on field trips. Three lectures and three hours of laboratory/field work per week.

Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4.

Bi 270 Principles of Animal Parasitology 4 Crs.

A comprehensive study of the biology of common animal parasites: their classification, morphology of adult and larval stages, patterns of life cycles, ecological requirements of all stages in the physical and biological environments, and the means of transmissions of all stages. Emphasis on the parasites of humans.

Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4.

Bi 311 Cell Physiology 4 Crs.

The physiological principles governing the functions of cells with molecular biology as the basis. Topics include enzyme chemistry, sources and distribution of

energy, cellular metabolic pathways, protein synthesis, and membrane transport. Laboratory includes biochemical analysis, enzyme kinetics, and biochemical pathway studies. Three lectures and three hours of laboratory per week. Prerequisites: Bi 111, Bi 112, Ch 221-3 and Ch 222-4.

Bi 312 Systems Physiology 4 Crs.

The physiology of vertebrate systems with emphasis on the human. Topics include cardio-vascular, respiratory, neural, muscular, digestive, endocrine, reproductive, and excretory physiology. Laboratory work includes studies of muscle-protein, quantitative neural impulse conduction, quantitative cardio-vascular parameters, and a number of other systems. Three lectures and three hours of laboratory per week. Prerequisites: Bi 111, Bi 112, Ch 221-3 and Ch 222-4 or permission of the department.

Bi 320 Advanced Genetics Seminar 3 Crs.

An examination of classic and potentially classic genetic papers from Mendel to the present. Three hours weekly, no laboratory. Prerequisite: Bi 220.

Bi 325 Immunology 4 Crs.

A study of the immune response including characteristics of antigens, antibodies, and antigen-antibody interactions. Laboratory work includes: agglutination precipitation, complement fixation reactions, animal inoculations, and other immunological techniques. Three lectures and three hours of laboratory per week. Prerequisite: Bi 230.

Bi 330 Virology 4 Crs.

Introductory course including various plant, animal, and bacterial viruses. Includes general viral characteristics, replic

tion, genetic diseases, and other selected material. Laboratory work includes tissue culture, animal inoculations, viral serology, and titration techniques. Three hours of lecture and three hours of laboratory per week. Prerequisite: Bi 230.

Bi 340 Comparative Vertebrate Anatomy 5 Crs.

The comparative anatomy of vertebrates in relation to their life style and evolutionary status. System study includes integument, skeleton, muscle, circulation, respiration, digestion, urogenital tract, brain, and peripheral nerves of selected vertebrate types. Three lectures, three hours of laboratory per week, and three extra hours of independent laboratory work. Prerequisite: Bi 212.

Bi 350 Bioecology 4 Crs.

The fundamental concepts of plant and animal ecology as revealed by field and laboratory studies of communities, succession, energy systems, physical-chemical factors of the environment, and population dynamics. Three lectures and one afternoon of laboratory/field work per week. Prerequisites: Bi 111, Bi 112, Ch 151-3 and Ch 152-4.

Bi 370 Natural Resource Management 4 Crs.

An inquiry into methods of resource management for soils, water, atmosphere, minerals, grassland, forest, wildlife, and recreation. Misuse of resources is considered in the light of correct management procedures. Three lectures and three hours of laboratory/field work per week. Prerequisite: Bi 350.

Bi 375 Analytical Techniques in Environmental Biology 4 Crs.

A course designed to instruct the individuals in the chemical and biological analyses

of varied environments. Topics include sampling procedures, chemical analyses, biological analyses, and the treatment of data. Two lectures and three hours of laboratory per week. Prerequisites: Bi 350, Ch 151-3 and Ch 152-4.

Bi 380 Evolution 4 Crs.

An introduction to the analyses and syntheses of the evolutionary pattern of life in plants and animals. Laboratory sessions provide an insight into the methodology of evolutionary studies. Three lectures and three hours of laboratory per week. Prerequisites: Bi 220 and Bi 350.

Bi 385 Biochemical Techniques in Biology 4 Crs.

A study dealing with the use of biochemical procedures in solving biological problems. Topics include biochemical analysis of cellular constituents, enzyme purification, special enzyme analysis, and the quantitative aspects of intermediary metabolism. Two lectures and four hours of laboratory per week. Prerequisites: Bi 311 and Ch 323.

Bi 390 Supervised Research 3-6 Crs.

Individual research projects in the basic areas of biology under the supervision of faculty. Prerequisites: 3.5 average and permission of the department.

Communications Courses

Ca 021 Effective Communication 3 Crs.

An exploration and analysis of the total communication process (source, message, channel, receiver), through instruction and practice in individual self-expression as well as interpersonal activity sessions,

small group communication exercises, and oral interpretation of literature.

Ca 121 Advanced Effective Communication 3 Crs.

This course is designed for the student who wishes to expand and refine the composition and presentation skills mastered in Ca 021. It affords the student opportunities for guided experimentation in those speech situations pertinent to his needs (i.e., business, education, law, politics, etc.) Prerequisite: Ca 021.

Ca 131 Interpersonal Communication 3 Crs.

The goal of this course is to improve the student's ability to communicate. Recent research to be covered deals with communication models, transactional analysis, communication games, breakdowns and barriers, non-verbal communication, group communication, and audience analysis.

Ca 141 Introduction to the Theater 3 Crs.

A survey course which introduces theater as a form of literature, a performing art, and a profession. Students will be required to act in or work behind-the-scenes on a departmental production and will attend performances of plays at professional, university, and/or community theaters. Several plays will be read and discussed. Short papers required. May be taken for area B1 credit.

Ca 151 Story Theater 3 Crs.

This course focuses on the origin of the art of storytelling. Students develop such basic performance skills as concentration, relaxation, and spontaneity and apply them to both scripted and nonscripted material: short stories, fairy tales, myths, poetry, and material created by the participants themselves through improvisation. Music,

and mime may be offered whenever possible. Prerequisite: Ca 021 or permission of instructor.

Ca 161-162 Theater History I, II 6 Crs.

Ca 161 is a survey of theatrical and dramatic history from the Greeks to the end of the 17th century. Ca 162 focuses on the theatrical and dramatic history from the end of the 17th century to the present. The course sequence examines the evolution of the various elements of play production, theater architecture, and the stage, costumes, scenery and lighting, acting and directing, music and dance, theater management, and the audience. Oral reports and research paper are required. Prerequisites: Ca 021, En 012, or permission of the instructor.

Ca 171-271 Acting I, II 6 Crs.

Ca 171 explores the actor's "instrument," body, voice, thoughts, and feelings. Basic physical and vocal work including exercises in relaxation, flexibility, concentration, alignment, centering, breathing, and sound. Theater games designed to free the actor's imagination and to develop his improvisatory skills. Prerequisite: Ca 021 or permission of instructor. Ca 271 is a continuation of the work begun in Ca 171, and its application to the process of scene study and the building of characters. Attention given to script analysis, rehearsal techniques, and selected special problems such as Shakespeare, acting styles, and auditioning. Prerequisite: Ca 171 or permission of instructor.

Ca 181 Fundamentals of Dance 1 Cr.

A dance class concentrating on several areas of movement, including tap and jazz, modern dance, and improvisational theater movement. The course will focus on "the dance" as a means of both personal and theatrical expression and fulfillment. Some

aspects of choreography will also be included.

Ca 221/Bu 221 Business Communications 3 Crs.

A course in the practice of oral and written communication skills as they apply to the corporate level of business. Students will be required to do public speaking; memo, letter, and report writing; group communication projects; analysis of communications; and resume writing and interview preparation. Prerequisites: En 011, En 012, and Ca 021.

Ca 261 Public Speaking 3 Crs.

A performance course in the organization and delivery of the extemporaneous speech to inform and persuade, stressing selection, analysis, organization, evaluation, and communication for constructive influence in speech situations.

Ca 270 Nonverbal Communication 3 Crs.

This course seeks to familiarize students with the means by which we consciously and unconsciously communicate without words. Relevant research covered in this course includes proxemics, gestures, expressions, object language, touch, signs, and other aspects of nonverbal communication.

Ca 273-274 Drama Workshop 6 Crs.

The Drama Workshop produces three to five presentations on campus per year. The productions are wide ranging in period, style, and genre.

Ca 275-375 Drama Practicum 6 Crs.

The Drama Practicum offers students on location experience at a professional

theater. Advanced students may serve as understudies for professional actors.

Ca 250 Oral Interpretation of Literature 3 Crs.

An introduction to the study of literature from the viewpoint of the oral reader. Theories of criticism and aesthetics as well as study of voice and communication are fused into the re-creative art of oral interpretation.

Chemistry Courses

Ch 015 Chemistry for the Artist †† 4 Crs.

For students majoring or minoring in art. The subject matter will include the basic principles of chemistry, chemistry of the materials used by the artist, history of the chemistry of dyes and pigments, detection of art forgeries, art restoration, chemistry of color, art hazards, and safety precautions. Two 75-minute lectures and one two-hour discussion/laboratory per week.

Ch 025 Forensic Chemistry 4 Crs.

This course deals with the principles of chemistry related to physical evidences such as blood, paint, glass, hair, fibers, drugs, and soil in criminal cases. Lecture and laboratory will deal with the preservation and analysis of evidence and presentation of evidence in a court of Law. Three hours of lecture and three hours of laboratory/discussion per week. Prerequisite: Criminal Justice Major.

Ch 035 Consumer Chemistry 4 Crs.

The chemical interpretations of substances encountered in our daily living are explored. Emphasis is on how the chemistry works rather than its impact on the environment. Topics include: energy production, food and food additives, farm chemistry, chemotherapy and drugs, and

household and automotive products. One three-hour lecture and one two-hour laboratory per week.

Ch 045 Introduction to Environmental Chemistry 3 Crs.

Basic chemical principles associated with our environment are discussed. Topics concern the chemistry of energy production, air and water pollution, agriculture, plastics, and household products. Emphasis is on contemporary problems and the outlook for their solution. One three-hour lecture per week.

Ch 050 Fundamentals of Chemistry 4 Crs.

The basic principles of chemistry are discussed. The topics examined are: physical properties of matter, the laws of chemical change, the kinetic molecular theory, molecular formulas and the atomic weight scale, atomic structure, principles of chemical bonding, chemical equilibrium, solution chemistry, and nuclear reactions. Two 75-minute lectures and one two-hour laboratory/discussion per week.

Ch 060 Historical Aspects of Chemistry 3 Crs.

The course will trace the development of chemistry from alchemy to its modern form from a historical and scientific standpoint. Prerequisite: Ch 050 or equivalent.

Ch 065 Food Chemistry 4 Crs.

A basic survey of various types of food and the chemistry behind them will be discussed. Topics include: photosynthesis, carbohydrates, proteins, lipids, vitamins, food colorings, fermentation, fruits and vegetables, milk, and meat products. Other areas of discussion will include flavor, food additives, food safety, FDA requirements, calories, and food analysis. Three

hours of lecture and two hours of laboratory/discussion per week. Prerequisite: One year of high school chemistry, Ch 050 or equivalent.

Ch 070 Chemistry: the Central and Interdisciplinary Science 4 Crs.

The overlap of chemistry with other fields of science and technology is made apparent by such hybrid topics as cosmochemistry, marine chemistry, fuel chemistry, nutrition, forensic science, and archaeology. Applications of chemistry and its central role and importance to mankind and society is demonstrated through essays on chemistry and warfare, medicine, food, consumer goods, arts, and human behavior. Two 75-minute lectures and one two-hour laboratory/discussion per week. Prerequisite: One semester of chemistry.

Ch 090 Principles of Chemistry 4 Crs.

The fundamentals of chemistry and its relation to the health sciences are examined. Topics include: the unit of measure, structure and properties of matter, chemical bonding, solution chemistry, elementary organic, and biochemistry. Two 75-minute lectures per week and one three-hour laboratory or one two-hour discussion on alternate weeks.

Ch 095 Principles of Organic and Biochemistry 4 Crs.

An introduction to the basic concepts of organic chemistry followed by an in-depth study of biochemistry. Two 75-minute lectures per week and one three-hour laboratory or one two-hour discussion on alternate weeks.

Ch 151 General Chemistry I 3 Crs.

A systematic study of the fundamental laws and theories of Chemistry: modern theories

of atomic and molecular structure, chemical bonding, periodic relations, chemical reactions, stoichiometry, states of matter, solutions, acid-base theories, and equilibria. Three hours of lecture and one hour of discussion per week. Prerequisite: Ch 050 or equivalent or permission of the Chairperson. Corequisite: Ch 153.

Ch 152 General Chemistry II 3 Crs.

This course explores: chemical thermodynamics, chemical kinetics, chemical equilibria, ionic equilibria, electrochemistry, chemistry of the representative elements, transition elements, nuclear reactions. Three hours of lecture and one hour of discussion per week. Prerequisites: Ch 151 and Ch 153. Corequisite: Ch 154.

Ch 153 General Chemistry Laboratory I 1 Cr.

Laboratory experiments are illustrative of the basic concepts presented in Ch 011, General Chemistry I. Experiments include qualitative analysis of cations and anions. One four-hour laboratory period per week. Corequisite: Ch 151.

Ch 154 General Chemistry Laboratory II 1 Cr.

Laboratory experiments are illustrative of the basic concepts presented in Ch 012, General Chemistry II. Experiments include volumetric and gravimetric methods of analysis. One four-hour period per week. Corequisite: Ch 152.

Ch 221 Organic Chemistry I 3 Crs.

An intensive treatment of the subject within the framework of the headings: alkanes, alkenes, alkynes, dienes, alicyclic hydrocarbons, stereochemistry, optical activity, aromaticity, electrophilic aromatic substitution reactions, arenes, alkyl halides, nucleophilic aliphatic substitution

reactions, elimination reactions, and spectroscopy especially IR, NMR, MS, and UV spectroscopy in relation to structure determination. Two 75-minute lectures and one hour discussion per week. Prerequisites: Ch 152 and Ch 154. Corequisite: Ch 223.

Ch 222 Organic Chemistry II 3 Crs.

A continuation of Ch 221. The topics include: alcohols, ethers, epoxides, carboxylic acid and its functional derivatives, aldehydes, ketones, amines, phenols, carbanion reactions, alpha-beta unsaturated compounds, carbohydrates, lipids, and proteins. Emphasis is given to organic reaction mechanisms, organic synthesis, and structure determination using spectroscopic techniques. Two 75-minute lectures and one hour discussion per week. Prerequisite: Ch 221 Corequisite: Ch 224.

Ch 223 Organic Chemistry Laboratory I 1 Cr.

The students will learn basic laboratory techniques in organic chemistry. Basic techniques such as extraction, distillation, re-crystallization, thin layer chromatography, gas chromatography, etc. will be used. Organic synthesis will be a major part of the laboratory work. One four-hour laboratory per week. Corequisite: Ch 221.

Ch 224 Organic Chemistry Laboratory II 1 Cr.

This is a continuation of Ch 223. Organic synthesis is the major portion of this course. Multistep organic syntheses using a wide variety of organic reagents will be carried out. Some important functional group analyses is also included. One four hour laboratory per week. Prerequisite:

Ch 223 Corequisite: Ch 222. Lab fee required.

Ch 225 Introduction to Biochemistry 3 Crs.

This course introduces the basic concepts in biochemistry. The chemistry of nucleic acids, proteins, lipids, carbohydrates, vitamins, and minerals will be discussed. The role these chemicals play in metabolic pathways eventually producing elaborate structures of living organisms will be introduced. Emphasis will be directed toward preparing individuals for understanding various applications of biochemistry in industry. Prerequisite: Organic Chemistry.

Ch 235 Chemical Applications of Mathematics 2 Crs.

The course addresses itself to those areas of mathematics that are used extensively in physical chemistry. Topics covered include mathematical methods in the chemistry laboratory, differential and integral calculus, differential equations, orthogonal curvilinear coordinates, infinite series, matrices and determinants, operators. One 100-minute lecture per week. Prerequisite: Mt 016 Corequisite: Ch 330 or Ch 331.

Ch 245 Safety in the Chemistry Laboratory 1 Cr.

This course will deal with proper chemical storage, chemical transportation, waste disposal, proper laboratory handling of glassware and equipment, carcinogens, proper labeling, toxicological effects of certain chemicals, and OSHA regulations. Three hours of lecture per week for five weeks. Prerequisite: Minimum three, preferably four courses (12 to 16 credit hours) in chemistry or permission of the Chairperson.

Ch 252 Analytical Chemistry 3 Crs.

This course gives the student a working

knowledge of the analytical methods and stresses the chemical principles fundamental to quantitative analysis and the theories of classical gravimetric and volumetric methods. Topics include the reliability of analytical data, solubility of precipitates, gravimetric analyses, volumetric methods, precipitation, neutralization, complex formation, non-aqueous, and oxidation reduction equilibria and titration systems. Two 75-minute lectures per week. Prerequisite: Ch 221. Corequisite: Ch 254.

Ch 254 Analytical Chemistry Laboratory 2 Crs.

The student will receive laboratory experience in a wide variety of volumetric and gravimetric methods. Experiments are designed to correlate with lecture material in Ch 211 and develop proper analytical procedure and techniques in addition to an understanding of the chemistry involved. Two three-hour laboratories per week. Corequisite: Ch 252.

Ch 320 Organic Qualitative Analysis 2 Crs.

Emphasis is given to the basic techniques in identifying organic compounds. The classic methods of functional group analysis and preparation of derivatives with the use of NMR, IR, and other pertinent spectroscopic methods. One hour lecture and one four-hour laboratory. Prerequisite: Ch 224.

Ch 321 Biochemistry 3 Crs.

Chemical and physical properties of carbohydrates, lipids, membranes, amino acids, proteins, enzymes, and nucleic acids. The major metabolic pathways and enzymology will be covered in depth. Two 75-minute lectures per week. Prerequisite: Ch 222. Corequisite: Ch 323.

Ch 322 Clinical Biochemistry 3 Crs.

A one-semester course covering the basic

chemistry and analytical methods for carbohydrates, lipids, proteins, enzymes, electrolytes, and hormones. The roles of these substances in physiological processes are also discussed. Two 75-minute lectures per week. Prerequisite: Ch 321. Corequisite: Ch 324.

Ch 323 Biochemistry Laboratory 2 Crs.

Experiments investigating the chemical and physical properties of biologically important compounds. Methods used include chromatography, electrophoresis, enzyme assays, and various techniques for isolation and identification of biochemicals and enzymes. Six hours of laboratory per week. Corequisite: Ch 321.

Ch 324 Clinical Biochemistry Laboratory 2 Crs.

Methods for the determination of carbohydrates, lipids, enzymes, proteins, electrolytes, hormones, and other substances in body tissues. Techniques used may include chromatography, electrophoresis, spectrophotometry, fluorometry, and electroanalytical methods. Six hours of laboratory per week. Corequisite: Ch 322.

Ch 310 Seminar in Chemical Literature 1 Cr.

The purpose of this course is to learn the nature of chemical literature and how to use it and to learn how to prepare and present a chemistry seminar. Students are required to conduct a specific number of literature searches and seminars as partial fulfillment of the requirements of this course. Prerequisite: Permission of the Chairperson.

Ch 330 Elements of Physical Chemistry 3 Crs.

For students who are considering a career in medicine or allied health fields and do

not need a full year chemistry course. Topics include thermodynamics, chemical equilibrium, solutions of electrolytes, electrochemistry, and chemical kinetics. Emphasis is to the physico-chemical properties of living systems. Two 75-minute lectures per week. Prerequisites: Ch 221-3 and Mt 016.

Ch 331 Physical Chemistry I 3 Crs.

Topics include: thermodynamics, statistical thermodynamics, kinetic theory of gases, changes of state, solutions, and chemical affinity. Two 75-minute lectures per week. Prerequisites: Ch 151-3 Mt 016, Py 112 or Py 152. Corequisite: Ch 333.

Ch 332 Physical Chemistry II 3 Crs.

A continuation of Ch 237. Topics include: chemical reaction rates, electrochemistry, and quantum mechanics. Two 75-minute lectures per week. Prerequisite: Ch 331. Corequisite: Ch 334, Co- or Prerequisite: Mt 104.

Ch 333 Physical Chemistry Laboratory I 2 Crs.

This course introduces the student to the kinds of techniques physical chemists use to apply the fundamental concepts of physical chemistry to real chemical systems. Two three-hour laboratory sessions per week. Corequisite: Ch 331.

Ch 334 Physical Chemistry Laboratory II 2 Crs.

A continuation of Ch 239. The student is introduced to the more advanced techniques of physical chemistry. The aim is to apply the theoretical concepts learned in Ch 238 to real chemical systems. Two three-hour laboratories per week. Prerequisite: Ch 333. Corequisite: Ch 332.

Ch 340 Introduction to Polymer Chemistry 3 Crs.

This descriptive course considers polymer chemistry as a branch of organic chemistry. It is designed to acquaint students broadly with the preparation, structure, properties, and utility of polymers and plastics. Topics include: condensation and addition polymerization, copolymerization, characterization of polymers, post-polymerization reactions, and natural polymers. One three-hour lecture per week. Prerequisite: Ch 222.

Ch 351 Instrumental Analysis 3 Crs.

This course presents the theory and practice of instrumental methods to quantitative analysis. Areas covered include spectrophotometric, electroanalytical, and chromatographic methods of separation and quantification. Practical applications and state-of-the-art techniques are discussed. Two 75-minute lectures per week. Prerequisites: Ch 252 and at least one semester of physical chemistry or permission of the instructor. Corequisite: Ch 353.

Ch 353 Instrumental Analysis Laboratory 2 Crs.

The student will receive hands-on experience with modern analytical instruments. Laboratory experiments are performed in visible, ultraviolet, infrared, and atomic absorption spectrophotometry, potentiometric, and ion selective electrode methods, electrodeposition, and gas chromatography. Two three-hour laboratories per week. Corequisite: Ch 351.

Ch 355 Advanced Inorganic Chemistry 4 Crs.

The physical and chemical properties of the elements and their compounds will be correlated with their positions in the periodic table. Bonding theory and

coordination chemistry will be emphasized. Considerable library work is required. Three hours of lecture per week. Prerequisite: Ch 152.

Ch 360 Industrial Aspects of Chemistry 3 Crs.

This course will deal with the analysis of chemical and allied industries and their input to the economy of the country. Utilization of industrially important chemicals along with sources and interdependence will be covered in detail. Visits to industrial plants is part of the course. One three-hour lecture per week. Prerequisites: Ch 222.

Ch 370 Computer Applications in Chemistry 5 Crs.

The main part of the course will deal with writing programs useful in the analytical chemistry laboratory including treatment of analytical data. Lecture portion also deals with interfacing computers with instruments. Two hours of lecture and a minimum of five hours of laboratory per week. Prerequisites: Cs 101, Ch 252 and Ch 254.

Ch 390 Special Topics In Chemistry 3 Crs.

The course deals with current topics in any of the following: analytical chemistry, biochemistry, organic chemistry, or physical chemistry. Three hours of lecture per week. Prerequisites: permission of the instructor.

Ch 393 Undergraduate Project 2-3 Crs.

A special project may be carried out under the advisement of faculty either in the jun-

ior or senior year. Prerequisite: Ch 070 or permission of the Department Chairperson.

Ch 395 Undergraduate

Research 2-3 Crs.

Research may be carried out under supervision of the faculty either in the junior or senior year. The course may be repeated. Prerequisite: 3.0 average and/or permission of the Department Chairperson.

Criminal Justice Courses

Cj 101 Introduction to Criminal Justice 3 Crs.

A basic course designed to provide the student with an overview of the criminal justice system and its processes. The system is studied as a total interacting body, police, parole, probation, law enforcement, courts, corrections, and diversion programs. Prerequisites: So 101 and Ps 101.

Cj 200 Constitutional Law 3 Crs.

The development of the Constitution through interpretations of the Supreme Court. A study of civil rights and civil liberties. Prerequisite: Cj 101.

Cj 201 Criminal Law Procedure 3 Crs.

Substantive aspects of criminal law emphasizing statutory criminal law against the background of common law. Examination of the purpose and goals of criminal law and a study of the historical development of its basic concepts. Prerequisite: Cj 101.

Cj 210/Lw 237 Family Law 3 Crs.

This course will cover the legal entanglements in which people find themselves and will consider the rights of middle and lower income groups. Topics will include support obligations, legal positions of married women, abuse of women and children, legal disability of minors, divorce, alimony, support and custody procedures,

separation agreements, and adoption. Prerequisite: Cj 101.

Cj 211/ Lw 239 Women and the Law 3 Crs.

The course will trace the development of sex discrimination as a legal and social phenomenon. The law will be covered in terms of its historical perspective. Emphasis will be placed on the developments of the 1960s and 1970s with respect to constitutional law, employment and employee benefits, education, criminal law, family law, and reproductive freedom (contraception, abortion, and sterilization).

Cj 220 Introduction to Corrections and Correctional Law 3 Crs.

This course acquaints the student with the entire concept of corrections, including the historical development of control of human behavior in society. A study of the principles and practices of law as it applies to those persons confined in city, county, state, and federal detention facilities. Established guidelines as set forth by the U.S. Supreme Court decisions are covered. Prerequisite: Cj 201.

Cj 221 The Juvenile Correctional System 3 Crs.

This course includes a survey of juvenile correctional institutions. Community treatment programs, juvenile probation, and after care are included. Prerequisites: Cj 220 and So 271.

Cj 222 The Adult Correctional System 3 Crs.

This course includes a survey of adult correctional programs. Probation and parole service along with Board of Pardon and

Parole are included. Prerequisites: Cj 220 and So 270.

Cj 223 Interviewing and Counseling 3 Crs.

Practice-oriented course designed to provide the student with the basic techniques of counseling, as well as with an understanding of the structure and development of the counseling process. Prerequisite: Cj 200.

Cj 230 Introduction to Law Enforcement 3 Crs.

This course acquaints the student with the law enforcement system in the United States. The course includes police activities and their relationship to the criminal justice system. Prerequisite: Cj 201.

Cj 231 Police and Society 3 Crs.

Sociological study of the role of police in society. The law enforcement system, functions, and dysfunctions of society. Problems of social control and law enforcement in a complex pluralistic society. Prerequisites: Cj 270 and Cj 230.

Cj/Lw 235 Arrest-Search-Seizure 3 Crs.

An in-depth discussion of the arrest powers held by various criminal justice personnel and of the major principles of search and seizure.

Cj 238 Police and Patrol Administration and Management 3 Crs.

Formulation of policies, practices, and procedures for the internal and external direction and control of the law enforcement agency are emphasized. A study of patrol as the basic function of police operation. Prerequisites: Bu 201 and Cj 230.

Cj 240 Introduction to Security 3 Crs.

A discussion of the historical, theoretical, and legal basis of security, including the purpose of security in modern society, eth-

ics and security, standards, and goals for the security industry. Prerequisite: Cj 101.

Cj 241 Security Management and Planning 3 Crs.

A survey of managerial techniques, theories, and planning strategies relevant to the security industry. Prerequisites: Cj 240 and Bu 201.

Cj 242 White-Collar Crime 3 Crs.

This course is designed to introduce students to the criminal activity popularly known as white-collar crime. Through discussion of the parameters and magnitude of white-collar crime and of the literature that has been proffered as explanations for it, the student will be introduced to the "role" of white-collar crime in modern society. Prerequisite: Cj 241.

Cj 243 Organized Crime 3 Crs.

In this course the historic roots of organized crime, the casual factors of organized crime in American society, the activities, organization, and economics of organized crime, the problems of corruption and graft, and the development of strategies to control the activities of organized crime will be discussed. Prerequisite: Cj 241.

Cj 270 Issues and Problems in Criminal Justice 3 Crs.

Description and analysis of crucial issues and problems relating to selected structures and processes in the criminal justice system. Review and analysis of recent studies concerning criminal justice. Prerequisite: Cj 201.

Cj 320 Correctional Administration and Management 3 Crs.

A study of the principles and practices applied to administration and management within the field of corrections. Investigation behavior and treatment programs. Ex-

amination of factors involved in correctional decision making and innovative management techniques through lectures and readings. Prerequisites: Bu 201 and 220.

Cj 321 Probation, Pardon, and Parole Procedures, and Supervision 3 Crs.

This course is designed to teach the application of probation, pardon, and parole methods for both juveniles and adults. An analysis will be given of the most effective methods and techniques as they apply to these services.

Cj 330 Police-Community Relations 3 Crs.

The role of the individual officer or agent in achieving and maintaining positive public response, intergroup relations, and public information. Prerequisite: Cj 231.

Cj 333 Investigation in Law Enforcement 3 Crs.

A study of investigative techniques and an analysis of the relationships of investigative units with other law enforcement units and agencies sources of information, methods of surveillance, preliminary and follow-up investigation, and preparation and presentation of comprehensive reports of investigation. Prerequisite: Cj 235.

Cj 335 Contemporary Police Issues and Problems 3 Crs.

A seminar concerning the identification and understanding of police problems in modern law enforcement. Prerequisite: Cj 231.

Cj 339 Police Personnel Administration and Supervision 3 Crs.

A study of the procedures and techniques related to selection, placement, classification, pay, evaluation, and discipline of police personnel. Detailed discussion of the

responsibilities of first-level supervisors in management including employee motivation and morale, employee relations, employee health and safety, work analysis, and grievance procedures. Prerequisites: Bu 207 and Cj 238.

Cj 340 Industrial Security 3 Crs.

A discussion of security techniques, theories, legal questions, and managerial problems as they relate to the manufacturing, industrial, and corporate business establishment. Prerequisite: Cj 241.

Cj 341 Retail Security 3 Crs.

A study of the responsibilities and operations of security departments in retail settings. Topics include dishonest employees, shoplifters, management and public relations, special laws and procedures, security surveys, and loss prevention management. Prerequisite: Cj 241.

Cj 342 Managerial Security 3 Crs.

A survey of the procedures for handling and control of classified and sensitive information. Included in discussions will be an examination of the role of data processing, background investigations of managerial personnel, and government-mandated security procedures in the security industry. Prerequisite: Cj 241.

Cj 345 Contemporary Issues in Security 3 Crs.

A discussion of the dynamic nature of the security industry. Prerequisite: Senior standing.

Cj 390 Internship 6 Crs.

Supervised placement in a criminal justice agency. Prerequisite: Senior standing and permission of the department.

Computer Science Courses

Cs 009 Introduction to Data Processing 3 Crs.

This course is designed to provide data processing oriented students or business people with a basic understanding of the fundamentals of data processing and the functioning of the computer. It will give them knowledge and understanding necessary to communicate effectively and intelligently in the microcomputer-driven business environment of today.

Cs 011 Introduction to Computers 3 Crs.

Introduction to programming logic using flowcharts, structured flowcharts, and the modular approach; an overview of computers and their functions; an introduction to the use of editors and the command language on the VAX.

Cs 013 Introduction to Programming Microcomputers 3 Crs.

An up-to-date perspective on using microcomputers and writing programs for them. All required computer programming skills in the conversational language BASIC are developed from first principles on a microcomputer system.

Cs 020 Introduction to PC DOS and a Data Base Software 3 Crs.

An introduction to the general concepts of the structure and types of data bases. The major emphasis will be on a relational data base management software like dbase III, and/or Rbase 5000. Indexing and report generation will also be included. Prerequisite: Cs 009.

Cs 021 Computer Concepts and Spreadsheet Applications 3 Crs.

Computer mathematics including mathematical operators, relational operators, logical operators, and the hierarchy of

these three operators. Creation and manipulation of worksheets using LOTUS 1-2-3. Prerequisite: Cs 020.

Cs 047 Quantitative Methods 3 Crs.

Examines a range of analytical modeling techniques useful in decision making in the system design environment. Linear programming, queueing models and inventory models.

Cs 050 Introduction to PASCAL 3 Crs.

A first course in programming using PASCAL; topics include iteration, selection, procedures, functions, and arrays with the use of flowcharts and modules; applications in both business and scientific areas.

Cs 051 Data Structures 3 Crs.

A continuation of Cs 011 using PASCAL to further implement arrays (both one and two dimensional) and other data structures including linked lists, queues, stacks, and trees. Prerequisite: Cs 050.

Cs 103 Survey of Microcomputer Software 3 Crs.

An applications-oriented introduction to the use of Wordstar dBase III and LOTUS 1-2-3 on the IBM Personal Computer. Data organization and management, software integration graphics, macros, and a data base procedural language.

Cs 120 Introduction to Applied Computation 3 Crs.

An introduction to problem-solving concepts and algorithm design, computers, FORTRAN programming, and applications to a variety of disciplines. Four hours a

week of lab required. Prerequisites: Cs 051.

Cs 130 Computer Systems 3 Crs.

Examination of the hardware and software component comprising computer operating systems. Emphasis placed on the logical elements which allow multi-processing environments to exist. Prerequisite Cs 051.

Cs 155 COBOL, Programming 3 Crs.

An introduction to the COBOL language and its application to solving business oriented data processing problems. Four hours a week of lab required. Prerequisites: Cs 051.

Cs 190-RPG II 3 Crs.

Development of RPG programs as related to practical commercial and industrial applications. RPG II features such as tables, arrays look-ahead force, display, sort/merge, and addrout files are included.

Cs 203 Data Base Design 3 Crs.

File structures including sequential, indexed, and direct files. Data Base organizations, hierarchical, relational, and ring structures. Two hours a week or lab required. Prerequisite: Cs 130.

Cs 210 Software Engineering 3 Crs.

The study of justification leading to the installation of a computer system as a complex problem with many variables. The focus is on the feasibility study which prepares the analysis of the problems leading to a computer system, the economics of selecting the right computer system, and the maintenance costs of the system. Prerequisite: Cs 047, Mt 015.

Cs 211 Advanced Programming 3 Crs.

Advanced programming techniques with special emphasis on applications to the

business world and to the social and physical sciences. Prerequisite: Cs 120.

Cs 213 Advanced Micro Computer Software 3 Crs.

Development of Spreadsheet advanced macros and database programs. Program development, file handling, security, documentation, and data base types will be discussed. Prerequisite: Cs 103.

Cs 220 The Analysis of Algorithms I 3 Crs.

The mathematical theory and techniques underlying the analysis of algorithms and applied problem solving. Prerequisites: Mt 016 and Cs 051.

Cs 221 Numerical Computation 3 Crs.

Algorithms for numerical problems in the biological, physical, and social sciences; linear and non-linear algebraic problems; optimization problems; and ordinary differential equations. Prerequisites: Mt 016 and Cs 220.

Cs 240 Introduction to Systems Programming 3 Crs.

Techniques for sophisticated programming. Assembly language programming and systems programming languages. Modular construction of big programs. Data structures and storage allocation systems. Prerequisite: Cs 220.

Cs 245 Digital Design 3 Crs.

Concepts of digital systems and switching theory. Boolean algebra, combinational circuits, logical design, state diagrams, state reduction, sequential machines, and machine synthesis.

Cs 246 Computer Architecture 3 Crs.

Computer organization, arithmetic and logical operations, registers, input/output devices, adders, accumulators, multipliers,

dividers, system principles. Prerequisite: Cs 245.

Cs 255 Advanced COBOL Programming 3 Crs.

A continuation of Cs 015. Advanced COBOL programming. Segmentation, overlay processing. Efficiency and tradeoffs in coding and program design. Four hours a week of lab required. Prerequisite: Cs 135.

Cs 290 Systems Analysis and Design 3 Crs.

An introduction to the practical application of computers to the solving of business-related problems. Analysis, design, and evaluation techniques are stressed. Prerequisite: Cs 210.

Cs 295 Information Systems and Organization 3 Crs.

Establishes the role of information systems in organizations and how they relate to organizational objectives and structure. Uses system point of view and introduces applications for budgeting, accounting, management control, and operational processes. Prerequisites: Cs 290, Cs 210.

Cs 300 Data Communication and Systems Networking 3 Crs.

Development of data communications to the present typical communications, current hardware, and protocol usage. ASYNCH, BISYNCH, SNA/SELCL, and, X-25 protocols. Local area networks, token rings digital networks, and teleconferencing. Voice and data communication networks. Transmission media development to the present.

Cs 303 Advanced Data Base 3 Crs.

Design considerations in a multi-applica-

tion data base supporting integrated business systems. Prerequisite: Cs 203.

Cs 310 Linear Algebra with APL 4 Crs.

Develop matrix algebra, linear dependency, analytic geometry, linear programming, Eigenvalues and Eigenvectors. APL is used to get answers to nontrivial problems.

Cs 317 Real Time Systems and Organization 3 Crs.

Examination of the components comprising real time systems. Emphasis based on the human factors affecting the successful implementation of real time systems in organizations. Topics include hardware components and user performance considerations. Prerequisites: Cs 290, Cs 300.

Cs 322 Special Projects 3 Crs.

A special project not otherwise available. The student must submit a written report and make an oral presentation of the results of the project. The course may be taken more than once. Prerequisite: Permission of the department.

Cs 330 Artificial Intelligence 3 Crs.

Overview of the field of A.I. including expert systems, minimax search, alphabeta pruning and game trees. Syntax and procedures of List will be taught and programming projects assigned. Prerequisite: Cs 211.

Cs 340 Compiler Design 3 Crs.

Compiler organization and implementation, code generation and organization, Lexical analysis, formal syntax specification. Compiler design simulation. Prerequisites: Cs 211, Cs 220.

Cs 350 Microprocessors 3 Crs.

The basis of microprocessors is examined in terms of the design, troubleshooting,

and interfacing in a balanced hardware/software environment. Emphasis on the 8088 instruction set, interrupt vectors, BIOS, and the interface with DOS.

Cs 358 Fourth Generation Languages 3 Crs.

Fourth generation products are composed of a number of non-procedural systems that aid both technical and non-technical users. Students will be introduced to nonnavigational database management systems, enduser computing, querring and reporting facilities. Prerequisites: Cs 210, Cs 290.

Cs 360 Project Management and Control 3 Crs.

Provides the basis for managing resources to accomplish specific objectives. Emphasis is placed on scheduling and estimating methods, CPM/PERT techniques, and interpersonal communication skills. Prerequisites: Cs 155 and Cs 210.

Cs 370 Modeling and Simulation 3 Crs.

Examination of the methods and techniques necessary to build computer based models. Emphasis will be placed on models and simulators used as tools for systems analysis. Techniques covered will include linear programming, statistical analysis risk analysis and "what if" analysis. Prerequisite: Math 23 or Quantitative Methods, Accounting 101, Cs 210, Cs 290.

Education Courses

Ed 101 Educational Psychology 3 Crs.

An introductory course that considers the application of psychological principles to educational theory and practice. It includes a systematic study of the process of learning, transfer of knowledge, individual differences, motivation, measurement, and

evaluation, insofar as these factors influence the teaching process.

Ed 152 Education in the United States 3 Crs.

An introduction to the historical, philosophical, and sociological foundations underlying the development and organization of education in the United States.

Ed 202 Developmental Psychology for Teachers 3 Crs.

A study of developmental changes in the total life span of the normal person and the application of this knowledge to the teaching process.

Ed 203 Personal and Professional Effectiveness 3 Crs.

This course deals with various models of interpersonal relations. Self-awareness, verbal and non-verbal communication, and other interactive techniques are explored to promote positive results with young people.

Ed 204 Tests and Measurements 3 Crs.

This course focuses on teacher application and interpretation of educational testing. Norm reference, criterion reference, standardized and teacher constructed testing practices are examined, as well as alternative methods of teacher evaluation.

Ed 205 Education of Special Needs Students 3 Crs.

This course focuses on the identification of exceptional students as well as methods of meeting their educational needs in regular and special classroom settings. Exceptionalities studied include all areas defined as special according to Public Act No. 84-298.

Ed 206 Models of Early Childhood Programs 3 Crs.

This course examines the historical, philo-

sophical, and cultural roots of contemporary early childhood education. The course examines contrasting early childhood education models, such as the Montessori method, the cognitive-based model, the child development model, and the British Primary Schools. Current issues and innovation in early childhood education are discussed.

Ed 207 Discipline and Classroom Management 3 Crs.

Various models of instructional management and classroom discipline are discussed and demonstrated. Students learn specific skills that will help them be effective in a large variety of tasks required of the classroom teacher.

Ed 221 Methods of Teaching Reading and Language Arts

A study of methodology in the areas of reading instruction and language arts. Field experience is an integral part of this course.

Ed 222 Methods of Teaching Mathematics 3 Crs.

Includes the techniques of teaching mathematics. Field experience is an integral part of this course.

Ed 223 Methods of Teaching Social Studies, Science, and Health 3 Crs.

This course includes the techniques of teaching science, social studies, and health. Field experience is an integral part of this course.

Ed 224 Museums, Zoos, and Community Resources to Enhance Education

Opportunities for the enrichment of the learning experience are examined. Special emphasis is placed on creating and demonstrating "hands-on" science, social stud-

ies, and math activities and relating these skills to other curriculum areas.

Ed 226 Methods of Teaching Pre-Academic Readiness 3 Crs.

Methods promoting growth in language, cognition, motor development, and self-help skills will be explored. Special attention is focused on the sequence of math and reading readiness skills, as well as the use of developmental checklists to assess student needs and progress.

Ed 249 Curriculum in Early Childhood 3 Crs.

Find new ways of integrating the creative arts, the sciences, and academic skills areas into the early childhood curriculum. Approaches to language development, listening skills, beginning reading, classroom organization, parent-teacher relationships, and techniques for adapting the curriculum to meet the individual needs in normal childhood development will be discussed.

Ed 250 Creative Play, Movement, and Art for Early Childhood 3 Crs.

This course will explore the importance, value, and implementation of creative play, movement, and art activities for preschool and primary grade children. This includes experimentation with and the use of various media, techniques, and methods for the decorative and practical arts; and participation in movement activities as a medium for expression.

Ed 252 Methods of Teaching Pre-Academic Readiness

Methods promoting growth in language, cognition, motor development, social-emotional development, and self-help skills will be the sequence of math and reading readiness skills, as well as the use

of developmental checklists to assess student needs and progress.

**Ed 262 Secondary Methods:
English** 3 Crs.

A comprehensive study of the principles, methods, and materials for teaching junior and senior high school English. Field experience is required.

**Ed 263 Secondary Methods:
History and Social Studies** 3 Crs.

A comprehensive study of the principles, methods, and materials for teaching junior and senior high school history and social studies. Field experience is required.

**Ed 264 Secondary Methods:
Spanish** 3 Crs.

A comprehensive study of the principles, methods, and materials for teaching junior and senior high school Spanish. Field experience is required.

**Ed 265 Secondary Methods:
Business** 3 Crs.

A comprehensive study of the principles, methods, and materials for teaching junior and senior high school business. Field experience is required.

**Ed 266 Secondary Methods:
Mathematics** 3 Crs.

A comprehensive study of the principles, methods, and materials for teaching junior and senior high school mathematics. Field experience is required.

**Ed 267 Secondary Methods:
Science** 3 Crs.

A comprehensive study of the principles, methods, and materials for teaching junior and senior high school science. Field experience is required.

**Ed 270 Production and
Use of A/V** 3 Crs.

This course is designed to promote the use of audio/visual material for instruction. The focus will be to explain and demonstrate the operation and use of A/V equipment and to give students the opportunity for practical application of the content covered.

Ed 271 Computer Literacy 1 Cr.

This introductory course investigates how computers can be used in the classroom, and what you must know to operate an instructional microcomputer. This course will focus on a hands-on approach to using an educational microcomputer and will not include programming. Commercial software will be demonstrated and criteria for the evaluation of educational software will be discussed.

Ed 272 Health in Youth 1 Cr.

The focus will be on the practical acquisition and application of knowledge of health and safety to enhance the skills necessary to screen and promote the physical, social-emotional, and mental well-being of the young.

**Ed 342 Teaching Reading and
Writing in Content Areas** 3 Crs.

This course teaches the fundamental principles of teaching reading and writing. Current methodologies and motivational strategies are taught. Students will learn how to: effectively use their content area text book; assign, organize, and evaluate written work; develop positive student attitudes toward reading and writing as lifetime skills.

Ed 387 Children's Literature 3 Crs.

This course will examine a variety of

children's literature to cultivate student interest in books and to develop methods for incorporating literature into classroom experiences. Criteria for selecting children's books are also considered.

Ed 391 Student Teaching Seminar—Elementary 6 Crs.

This seminar, which meets weekly in conjunction with the full-time student teaching assignment, focuses on the teaching-learning process as it is being experienced in the elementary school. Related issues such as teacher competencies, evaluation, supervision, and self-assessment; curriculum planning, implementation, evaluation, and situational topics are explored.

Ed 395 Student Teaching Seminar—Secondary 6 Crs.

This seminar, which meets weekly in conjunction with the full-time student teaching assignment, focuses on the teaching-learning process as it is being experienced in the secondary school. Related issues such as teacher competencies, evaluation, supervision, and self-assessment; curriculum planning, implementation, evaluation, and situational topics are explored.

Ed 399 Independent Study 3–9 Crs.

Directed individual study of an approved specific problem or special topic not covered by, or that goes beyond the scope of, regular course offerings.

English Courses

En 005–006 Freshman Rhetoric: College English for Foreign Speakers 6 Crs.

Designed to aid the non-native speaker in augmenting fluency in oral and written English. Needs will be assessed, and each student will receive instruction based on

his particular needs. English Placement/Proficiency Test required.

En 009 Reading Improvement and Study Skills 3 Crs.

A college skills course focused on developing more efficient study and reading techniques. Study skills will include previewing through reviewing of courses, texts, and tests. Improved reading comprehension, speed, and vocabulary will be emphasized within a reading laboratory setting.

En 010 Basic Studies: Reading and Writing Skills 6 Crs.

Within a workshop atmosphere, students receive intensive instruction in basic skills. The course provides practice in strengthening the student's reading, writing, and study skills which will be needed for all college level work. English Placement/Proficiency Test required.

En 011 Freshman Rhetoric: Shorter Forms 3 Crs.

A systematic and practical introduction to the techniques of effective writing. The course stresses the rudiments of traditional rhetoric and provides supervised practice in writing of essays. English Placement/Proficiency Test required.

En 012 Freshman Rhetoric: Longer Forms 3 Crs.

A continuation of En 011. This course deals especially with the writing of argumentative-expository essays and the application of advanced rhetorical principles. Training in basic research methods is stressed. Prerequisite: En 011.

En/Hn 091–092 English Honors Seminar 6 Crs.

This freshman honors seminar combines the studies of oral and written English. Emphasis is placed on expository writing

and the discussion and synthesis of themes and concerns fundamental to suggested supplementary readings. En 091 explores the total oral communication process (source, messages channel, receiver) through instruction and practice in individual self-expression as well as interpersonal activity sessions. By permission of the department only.

En 092 is a continuation of En 091. The seminar studies the research process and culminates in a long research project. The oral component is also continued and students are provided with practice in oral interpretation of literature as well as group communication situations. By permission of the department only. Upon successfully completing En 091 and En 092, the Ca 021 requirement is waived.

En 101 Approaches to Literature 3 Crs.

This introduction to literature course will provide students with the experience of literature in fiction, poetry, and drama; introduce critical techniques; familiarize students with critical and technical vocabulary; introduce a broad spectrum of critical approaches; require written work; and introduce research tools specific to literature. Beginning with the Fall 1987 semester, this course will be a prerequisite for all upper-division literature courses, Theatre History I and II, and Oral Interpretation of Literature. Prerequisite: En 011.

En 102 The Experience of Literature 3 Crs.

This course, designed for the freshman as a general elective, has special topics which vary each time it is offered. This course does not satisfy the English major or minor as a requirement or as an elective.

En 170-179 Studies in Writing: Special Topics 3 Crs.

A series of courses designed to meet the multitude of writing needs demonstrated by

students in a variety of majors. Courses include writing of poetry, short story, fiction, non-fiction, free-lance writing, corporate writing, journalism, etc. Prerequisite: En 012.

En 170 Journal Writing 3 Crs.

This course follows the Progoff method of journal writing which includes a series of in-class private writing exercises aiming at self-discovery and tapping resources of creative energy. The course also features class trips that serve as the basis for descriptive journal writing exercises which stress description, narration, exposition, and the editing process. Some light reading is required.

En 201 Masterpieces in Literature 3 Crs.

A course designed for general electives at the sophomore level. Description varies each time it is offered. Prerequisite: En 012 or En 101.

En 206 Studies in Language: Special Topics 3 Crs.

Topics vary each time the course is offered. Examples: language and human behavior, language and culture, language and politics, non-verbal communication, language and sex, language pollution, euphemism, contemporary language, verbal obscenity, language and advertising, language and prejudice, language and the media, metaphors and thought, psychology and language. Prerequisite: En 012.

En 207 Studies in Language: Introduction to English Language Study 3 Crs.

A survey of the major changes in structure, vocabulary, and uses of the language from the earliest times to the present. This course will also present the more important

findings of modern linguistic scholarship. Required for secondary education. Prerequisite: En 012.

En/Ms 214 News Writing and Reporting 3 Crs.

An introduction to the basic news writing and journalistic reporting principles. Concepts of journalism will provide a format for an analysis of the news media and responsibilities of a journalist in today's society. The workshop sessions attempt to utilize the concepts in practical work. Prerequisite: En 012.

En 230-239 Studies in Drama: Special Topics 3 Crs.

The focus and content of the course vary each semester but a given semester may involve itself with a study of American drama, modern drama (1850-present), theater of the absurd, classical Greek drama, comedy, tragedy, Elizabethan/Jacobean drama, period courses, or a specific dramatist theme. The course studies plays as literature meant for stage production. Prerequisite: En 012.

En 250 Literature in a New Land: American Writing 3 Crs.

From Plymouth Rock and Salem streets to the Catskill Mountains, American creativity burgeoned as it was released from narrow religious bonds. A study of the witch trials gives insight into early New England culture which often nursed superstition while denying creative output. A study of the native American Indian literature reveals another important aspect of our literary tradition. Prerequisite: En 012.

En 255 Early American Black Literature 3 Crs.

A consideration of Afro-American Literature from 1790 to 1900, including the slave narratives, the mockingbird school,

and folk poetry. Prerequisite: En 012 or En 101.

En 256 The Flowering of New England 3 Crs.

The darkness and mystery of both human motivation and nature itself occupied American writers of the 19th century. Primitive beginnings in a sometimes savage new land finally produced literature of profound psychological depth which strangely presages much of the post-Freudian, post-Nietzschean literature of this century. Emphasis on Poe, Hawthorne, and Melville. Prerequisite: En 012 or En 101.

En 257 From Dickinson to Eliot: Out of the Woods and into the Wasteland 3 Crs.

A study of writers from Dickinson to Eliot reveals much about the emergence of characteristically American styles and concerns. Defines the problems caused by the exhaustion of our frontier and the emergence of the modern world, a world which magnified by the first global war, produced the writers of the wasteland, the "lost generation." Prerequisite: En 012 or En 101.

En 258 From Faulkner to the Present 3 Crs.

Modern American literature in content and technique reflects 20th century preoccupation with the loss of faith in an omniscient creator and the rise of individual consciousness, each a creator and center of a world isolated from all other worlds. Current developments in American literature indicate that authors have begun to devise myriad, often amusing ways to overcome

the dilemma of radical alienation. Prerequisite: En 012 or En 101.

En 265 Shakespeare 3 Crs.

The course explores a wide variety of Shakespeare's plays from a literary as well as a theatrical perspective, emphasizing the development of Shakespeare as a dramatist while relating his plays to their historical and cultural context in Elizabethan England. Prerequisite: En 012 or En 101.

En 280-289 Studies in World Literature: Special Topics 3 Crs.

Course description varies each time the course is offered. Prerequisite: En 012 or En 101.

En 310 British Literature to 1603 3 Crs.

A historical and chronological study of major works of British poetry and prose, beginning with Old English and *Beowulf*, through the literature of the Middle Ages with special emphasis on Chaucer, and on to the Elizabethan poets; such as Wyatt, Surrey, Sidney, Raleigh, and the poetry of Shakespeare. Some drama, exclusive of Shakespeare, will be included. Prerequisite: En 012 or En 101.

En 312 Seventeenth Century British Literature 3 Crs.

As writer Douglas Bush notes, at the beginning of this time period, we find English writers with one foot in the medieval world, but by the end, we see that they have one foot set in the modern world. The major concentration in this course will be on the works of Jonson, Donne, Herbert, Marvell, some of the lesser Metaphysical and Cavalier poets, and Milton. Prose writings of Browne, Burton, and

Bunyan will also be dealt with. Prerequisite: En 012 or En 101.

En 313 Restoration and 18th Century Literature 3 Crs.

The English Civil War influenced this period's literature which reflected the desire to hold society together by manners, the power of reason and balance. It was also the age of great satire and the stirrings of what became "Romanticism." Dryden, Pope, Swift, and Johnson will be read as well as Restoration dramatists (Congreve, Etherege, Wycherley) and early novelists (Defoe, Richardson, Fielding). Prerequisite: En 012 or En 101.

En 314 The Romantic Period in British Literature 3 Crs.

Romanticism is a difficult word to define, but by studying the works of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats we may not only get closer to what this word means but also note how intimately the concerns of these poets are our own. And this age does not only belong to these figures: studying the early works of Austen, Scott, and Carlyle reminds us how often Romanticism and the reaction against Romanticism go hand in hand. Prerequisite: En 012 or En 101.

En 315 the Victorian Period in British Literature 3 Crs.

A study of a period that ranges from George Eliot to Lewis Carroll, John Henry Cardinal Newman, and Oscar Wilde. The course will explore the literature of Tennyson, Browning, Arnold, Dickens, Eliot, Newman, Ruskin, Pater, Swinburne, and others, with concentration on the roots of modernism developing behind the facade of Victorian "respectability" and "progress." Prerequisite: En 012 or En 101.

**En 316 Twentieth Century
British Literature** 3 Crs.

A period in which the artist, a product of middle class society, was often at war with that society, as in form and substance he explored ways of creating a self that transcended the traditional definitions that society imposes. Hardy, Hopkins, Shaw, Conrad, Woolf, Yeats, Joyce, Lawrence, Eliot, Beckett, and others with emphasis placed on the "classical" text of modern literature. Prerequisite: En 012 or En 101.

**En 320-329 Studies in Poetry:
Special Topics** 3 Crs.

Course description varies each time the course is offered. Prerequisite: En 012, En 101 or permission of instructor.

**En 340-359 Studies in Fiction:
Special Topics** 3 Crs.

Course description varies each time the course is offered. Prerequisite: En 012.

**En 370-En 379 Studies in Writing:
Special Topics** 3 Crs.

A series of courses designed to meet the multitude of writing needs demonstrated by students in a variety of majors. Courses include writing of poetry, short stories, fiction, non-fiction, free-lance writing, corporate writing, journalism, etc. Prerequisite: En 012 or permission of instructor.

**En/Ms 370 Newspaper
Publication** 3 Crs.

An introduction to newspaper publication, providing editing and publications practice. Emphasis will be on copy selection, copy editing, story placement, headline writing, use of art, page layout, copy fitting, and use of stylebooks. In addition, issues affecting newspaper production will be discussed including libel, production economics, and legal restrictions such as copyright

and First Amendment rights. Prerequisite: Ms/En 214 or permission of instructor.

En 375 Advanced Composition 3 Crs.

An advanced expository writing workshop. The course stresses the discipline of researching, writing, editing, revision, and meeting specific deadlines. The procedures of the class include an involvement in class discussions on strategies of writing, participation in a one day a week writing workshop, and completion of all the assigned writing tasks. Prerequisite: En 012.

**En 384-385 Studies in
Black Literature:
Special Topic** 3 Crs.

A detailed study of such black authors as Hughes, Wright, Ellison, Brooks, Baldwin, Baraka, and others with attention to selected themes in four genres. Prerequisite: En 012 or En 101.

**En 386 Black Writers
in America** 3 Crs.

A consideration of black writers from Dunbar and Chesnut to the present. Study of Harlem Renaissance writers, Wright, Ellison, Hayden, Brooks, Tolson, Baldwin, Baraka, and the Black Arts Movement. Some attention will be paid to the relation of the works to traditional images of blacks in America and to themes found in American literature as a whole. Prerequisite: En 012.

En/Ed 387 Children's Literature 3 Crs.

A survey of children's literature, including an introduction to the mythology and folklore of the world. Consideration will be given to techniques of motivating children to enjoy stories. Enrollment limited to students preparing to be elementary teachers.

En 388 Young Adult Literature 3 Crs.

A survey of adolescent and young adult literature, including an introduction to the

mythology and folklore of the world. Consideration will be given to the techniques of teaching literature to young people. Enrollment limited to students preparing to be middle and senior high school teachers. Prerequisite: En 012 or En 101.

En 390 Studies in Literary Criticism: Special Topics 3 Crs.

Course description varies. Prerequisite: En 012 or En 101.

En 391 Departmental Seminar: British Literature 3 Crs.

Offered every fall, this seminar will study the works of and criticism written on a single British author. Limited enrollment: permission of the Department Chairperson required.

En 392 Departmental Seminar: American Literature 3 Crs.

Offered every spring, this seminar will study the works of and criticism written on a single American author. Limited enrollment: permission of the Department Chairperson required.

En 398 Senior Seminar 3 Crs.

Open to qualified seniors by invitation of the department of English. The aim of the course is to enable students to synthesize their understanding of English and American Literature through the study of selected problems in literature and literary criticism.

En 399 Independent Study 1-3 Crs.

Work on a special topic to be arranged with an instructor who will direct this work. Permission of the department chairperson will be granted to qualified English

majors on the basis of a written prospectus. By special arrangement.

History Courses

Hi 001 Western Civilization to 1715 3 Crs.

A basic survey which seeks to explain the religious, intellectual, social, and economic evolution of Western civilization.

Hi 002 Western Civilization since 1715 3 Crs.

Continuation of Hi 001. The course presents the major historical trends in the 18th, 19th and 20th centuries.

Hi 101 Civilizations 3 Crs.

This course brings students into contact with the complexities of human history through a study of various topics and themes selected from major civilizations. The approaches utilized vary from a consideration of political structures to the examination of art, literature, and popular culture.

Hi 121 United States History to 1865 3 Crs.

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

Hi 122 United States History Since 1865 3 Crs.

An analysis of the period of Reconstruction: industrial expansion, transportation, agriculture, labor, and finance. Place of the United States among nations, World

War I, the Depression, New Deal, World War II, and post war to the present.

Hi 128 The History of American Business Enterprise 3 Crs.

An examination of the growth and development of business enterprise in America from colonial times to the present. Topics receiving special consideration include the role of the entrepreneur, the evolution of business specialization, the rise of the corporate form and of "big" business, notable innovations in management and marketing, the interplay of business enterprise, and other aspects of American society.

Hi 201 Historical Method and Criticism 3 Crs.

An introduction to the problems of understanding and explanation in history, and to the history of historical writing. Aids to research, techniques, and methods employed by historians and experience in textual criticism.

Hi 209 Imperial Spain and Latin America 3 Crs.

Beginning with its roots derived from the historical traditions of Imperial Spain and Spanish America, the course traces the development of Latin America. It covers such diverse topics as politics, religion, society, and culture.

Hi 214 French Revolution and Napoleon 3 Crs.

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

Hi 215 Europe, 1815-1914 3 Crs.

European history from the aftermath of the Congress of Vienna to the opening days of the First World War will be thoroughly

examined in this course. Topics such as the growth of the "isms," industrialization, colonial expansion and rivalries, and social change in 19th century Europe will receive special attention.

Hi 216 Princes to Peasants 3 Crs.

An in-depth approach to the changes within European society from the 16th to the end of the 19th century, its main focus is the values and lifestyles of the various European classes such as nobility, bourgeois, working class, and peasantry.

Hi 217 Twentieth Century Europe 3 Crs.

This course treats the tensions and changes within Europe from the beginning of the 20th century to the present day. Its subjects include the challenges of two major world wars, the struggle for democracy between 1919 and 1939, and the rise of new political ideologies.

Hi 218 Fascist Europe, 1919-1945 3 Crs.

This course begins with a study of the conditions immediately after World War I which produced Fascism throughout Europe. While attention is given to the Fascist mentality and theory, the main focus is the practice of Fascism in Europe, particularly in Mussolini's Italy and Hitler's Germany.

Hi 222 The History of Government Regulation in America 3 Crs.

An examination of the origins, growth, development, and modern day controversy over the role of government regulation of business in the United States. Anti-trust, consumer labor and conservation issues will be examined, and special attention

given to consumer protection in contemporary Connecticut.

Hi 224 Southern United States History 3 Crs.

A survey of the economic, social, and political history of the South with emphasis upon the rise of the plantation system; the institution of slavery; emergence of Southern nationalism; and the causes of the Civil War. Also, an intensive study of the changes which have occurred since Reconstruction, including the populist revolt, industrialization, urbanization, and the racial revolution.

Hi 225 Afro-American History 3 Crs.

A study of the African heritage of Afro-Americans, the forced migration of African multitudes to America, the condition and nature of their servitude, the development of abolitionism culminating in emancipation, the twilight zone of freedom, the growth of civil rights and black power movements, and an analysis of the psychic and cultural implications of racism.

Hi 228 The Immigrant Experience 3 Crs.

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

Hi 231 Imperial Russia and the Soviet Union 3 Crs.

This course traces the evolution of the modern Russian state from its beginnings in the ancient principality of Muscovy to the establishment of the Soviet Union. It looks at such varied topics as the foundations of Czarist Absolutism, westernization and traditionalism in Russian society, reli-

gion and culture, and, finally, the impact of the Bolshevik Revolution.

Hi 233 Modern Lithuanian History 3 Crs.

Deals with the reawakening of national consciousness and the establishment of a modern republic in 1918; the structure and destiny of that republic; and current trends of sovietization, russification, and dissident activity. Lithuanian artists from current Lithuania and in exile as well as their specific works will be studied.

Hi 234 Polish History and Culture I 3 Crs.

A course in the history of Poland from the earliest times until the partition of the country in the 18th century. The political and cultural development of Poland during its centuries of greatness and the major role played by the country in European civilization will receive special emphasis.

Hi 235 Modern Polish History and Culture 3 Crs.

This course begins with the emergence of nationalism in early 19th century Poland, traces the struggle for national independence culminating in 1919, and explores Poland as an independent nation and Russian satellite to the emergence of Solidarity.

Hi 236 History of the Arab World I: From Muhammad to the Ottoman Empire 3 Crs.

A study of the rise of Islam and the emergence of the Arabs as a world power. Discussion will focus on the achievements of Muhammad, the institution of the caliphate, the Umayyad and Abbasid empires, the Crusades, and the decline of Arab in-

fluence in the Near East under the pressure of Turkish expansion.

Hi 238 The Modern Arab World 3 Crs.

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

Hi 251 Ancient Greece and Rome 3 Crs.

This course covers the history of the Mediterranean basin from 500 B.C. to the end of the Roman Empire. Emphasis is given to the contribution of the Greeks, the conquest of the Greeks by the Romans in the second century A.D., the Roman acceptance of Greek culture, and the final decline and fall in the late Roman period.

Hi 252 Medieval Europe 3 Crs.

The development of European history from the 4th to the 14th century. The topics include the birth of the Middle Ages, Christianity, Byzantine, Islamic and Carolingian Empires, Feudalism, the Crusades, and the growth of national states.

Hi 254 The Renaissance and Reformation 3 Crs.

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

Hi 255 Absolutism and Enlightenment 3 Crs.

There are two objectives to this course. First, it will present an explanation of the rise and practice of "Divine Right" monarchies in Europe in the 17th and 18th centuries by concentrating on such figures as Louis XIV and Frederick II. Secondly, the course will investigate how Old Regime Europe was intellectually challenged by the Enlightenment in the persons of such

thinkers as Voltaire, Montesquieu, and Rousseau.

Hi 264 The British Empire and Commonwealth 3 Crs.

The revolution of the British Empire and Commonwealth from the American Revolution to the present, the fall of the old colonial system, the free trade movement, the growth of the Dominions, relations with India, and the Empire and Commonwealth in recent years.

Hi 265 Modern England, 1485 to the Present 3 Crs.

A study of the transformation of England from an agrarian, aristocratic society in the 16th century to an industrial democracy in the contemporary world.

Hi 267 Irish History and Civilization 3 Crs.

Ireland has one of the oldest civilizations in Europe, a land of myth and history echoing with the words of her great poets, playwrights, statesmen, and novelists. It is the root place where many go to trace their ancestral heritage. The history will be traced from the beginning down to the Act of Union, 1800.

Hi 268 Irish History and Civilization 3 Crs.

This course will start at the beginning of the 19th century and continue down to the present. Emphasis will also be placed on the Irish in the world, but especially on the United States.

Hi 269 The Irish in the U.S. and in the World 3 Crs.

This course will delineate the influence of the Irish in the American Revolution and in the Civil War, the influence of Irish Americans in Ireland, and the part played

by the Irish in France, Spain, Australia, South America, etc.

Hi 271 American Colonial Foundations (1607–1783) 3 Crs.

A study of the development of American society with emphasis on the political, social, and economic problems which led to the American Revolution, and the further problems created during the Revolutionary War.

Hi 272 The New Nation (1783–1877) 3 Crs.

The achievement of national government; the development of political parties and political democracy; social, political, economic, and cultural developments of the early and mid-19th century; westward expansion; slavery; national disruption and Civil War; and the Reconstruction and its legacy.

Hi 273 The Age of Enterprise in the U.S. (1877–1929) 3 Crs.

The development and impact of corporate capitalism; the political, social, intellectual, and diplomatic transformations of the late 19th century; attempts at national reform and the impact of war; the beginnings of mass society; and the causes of the Great Depression.

Hi 274 Contemporary America, 1929 to Present 3 Crs.

The effects of the Depression and the initial response to it: the nature, achievements, and shortcomings of the New Deal; the United States in world affairs from isolation to global involvement; the political, social, and economic evolution of American life since World War II.

Hi 275 The Worker in American Life 3 Crs.

This course examines the revolution of work and the workplace, the working

classes, and labor organization from the origins of the American colonies to the present day.

Hi 276 The Rise of Modern Science 3 Crs.

Starting with their origins in the Scientific Revolution of the sixteenth century, this course presents the major scientific developments in Western life and their impact on society. It reviews such topics as the Copernican Universe, Darwinian biology, and several major scientific advancements in the 20th century.

Hi 277 The History of American Journalism 3 Crs.

An examination of the development of U.S. journalism since its Colonial origins with emphasis, through selected research, on some major aspects of the subject.

Hi 278 Jewish History and Civilization I 3 Crs.

Jewish history from the earliest times through the Exodus, entrance into Canaan, Prophets, and Period of the Kings. The interaction between Jewish history and the Assyrian, Babylonian, Persian, Greek, and Roman civilizations including the rise of Christianity and its unique importance in understanding the history of civilization. Emphasis is placed on the relevance of ancient Jewish history to modern times.

Hi 279 Jewish History and Civilization II 3 Crs.

Jewish history from 135 c.e., through the Talmudic period; rise of Islam; middle ages; protestantism; industrial revolution; Zionism; and the yearning for Jewish homeland, the Holocaust establishment of the State of Israel until 1978. Emphasis will be placed on clarifying the relevance

of Jewish history to the comprehension of civilization especially in the 20th century.

Hi 281 Introduction to the Civilization of East Asia 3 Crs.

This course provides an overview of the history of China and Japan from pre-historic times to the late traditional period (approximately 1800). It is intended to give students a firm grasp of the civilizations of East Asia and their unique characteristics.

Hi 282 East Asia in the Modern World 3 Crs.

This course covers the history of China and Japan from approximately 1800 to the present and gives special consideration to each nation's development, rise to world prominence, and attitudes toward modernization.

Hi 283 The History of Modern China 3 Crs.

This course considers the history of traditional civilization, the impact of the West, the triumph of communism, and the performance of the Communist Party in power since 1949.

Hi 284 The History of Modern Japan 3 Crs.

This course on Japanese history since 1800 considers the decline and fall of feudalism, the remarkable drive toward modernization, the thrust for domination in East Asia and its consequences, and the evolution of Japan as a major economic power.

Hi 287 The Holocaust 3 Crs.

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

years. Several films and a death camp survivor will augment lectures, readings, and discussions.

Hi 288 Hungarian History and Culture until 1848 3 Crs.

This course provides a comprehensive view of Hungary's history from its very beginning up to the present day. The historical events, arranged in chronological order and grouped around historically coherent periods, will be examined in their political, economic, and cultural ramifications.

Hi 289 Ukrainian History and Culture until 1900 3 Crs.

Major political, cultural, social, and economic developments of the Ukraine from the Kievan Rus to 1900.

Hi 293 The History of Violence in America 3 Crs.

An exploration of the varieties and uses of violence, individual and collective, in the American past, and of violence as an aspect of the national mentality and culture.

Hi 296 Patterns of Revolution 3 Crs.

A study of the preconditions and circumstances which affected both the theory and the development of "Revolution." It traces the growth of revolutions from early stages in peasant insurrections of the late medieval period and shows how they evolved into more systematic forms by the contemporary 20th century world.

Hi 322 United States Foreign Policy 3 Crs.

This course examines the evolution and expansion of American foreign policy, its ideas and conduct, from the Revolutionary period to the present. It analyzes the aims of foreign policy, the influences which

have shaped it, and its impact on the nation's domestic politics.

Hi 382 Modern German History and Culture 3 Crs.

A survey of German political, economic, social, and cultural history since 1914, covering German political history during World War I. Major aspects of the Weimar Republic, the rise of Hitler, and the ideology of the National Socialist Movement. The causes and course of World War II and the main political and economic events of the two Germanies since 1945 will also be explored.

Hi 388 Hungarian History and Culture Since 1848 3 Crs.

This course provides a comprehensive view of Hungary's history to the present day. The historical events, arranged in chronological order and grouped around historically coherent periods, will be examined in their political, economic, and cultural ramifications.

Hi 389 Twentieth Century Ukrainian History and Culture 3 Crs.

The struggle for national survival, independence, and unification of Ukraine from 1900 to present. Emphasis on political, social, cultural, and economic problems. Ukraine as an object of the international struggle: its partition in the 1920s; unification under the Communist regime; liquidation of churches; destruction of Ukrainian cultural life; dissident movement; the Ukrainians in the U.S. and diaspora.

Hi 391 Internship Program 3-6 Crs.

The history internship program offers qualified students the opportunity of supervised field experience, currently at the Fairfield Historical Society, in an area allied with their own interests. Internships are arranged in advance of the semester they are to be taken, and only with the

permission of the instructor.

Hi 392 Special Topics in History 3 Crs.

This course offers students the experience of studying a specialized area of history not normally emphasized within the Department's course offerings. Its subjects vary from American and European themes to the less traditional Third World topics.

Hi 398 Senior Seminar 3 Crs.

The purpose of this course is to expose students to the experience of researching, writing, and defending a major historical project. It permits a student to learn, on a one-to-one basis with a project director, the importance of critical analysis and writing within the disciplines of history.

Hi 399 Independent Study 1-3 Crs.

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

Honors Courses

Hn 201 Introduction to the Humanities 3 Crs.

A rigorous examination of selected topics in the humanities, looked at from the perspectives of major works of literature, language, media, art, music, history, philosophy, and/or religious studies.

Hn 202 Investigations in the Social and Behavioral Sciences 3 Crs.

Explores selected topics from the perspectives of the social and behavioral sciences.

Hn 203 Special Themes in the Humanities 3 Crs.

An intensive study of special themes in the humanities that explores issues of the human condition, human identity, destiny, experience, morality or values; or that considers the inter-relationships of cultural and historical conditions in society; or that

looks at how forms of art and literature express central issues of the human condition; or that considers the issues of the human environment and natural or physical world.

Hn 204 Investigations in the Natural and Physical Sciences 3 Crs.

Explores special topics from the perspective of the natural and physical sciences.

Hn 301 Honors Seminar 3 Crs.

An interdisciplinary, team-taught seminar offered at the junior-senior level; provides an in-depth, intensive study of a topic which is not offered as part of the regular University curriculum.

Hn 302 Advanced Honors Course 3 Crs.

An Advanced Honors Course is an in-depth investigation within a single discipline/major. It is not an interdisciplinary course and it is not team-taught.

Hn 303-304 Honors Thesis Project 6 Crs.

During Senior year a student may register for Hn 303-304 in order to do the research and preparation for the completion of an Honors Thesis Project. The Honors Thesis Project is a year long independent study project completed under the supervision of a faculty mentor and approved by the Department Chair as well as a committee selected by the student and including the faculty mentor and the Director of the Honors Program.

The student designs the project to fit his/her particular major requirements/needs/interests. The objective of the project is to provide academically talented students with an opportunity: to assume responsibility for their own educational process; to explore, in depth, a topic of interest to them; and to create/achieve/

produce some work which demonstrates their scholarly, creative, and intellectual abilities and efforts. The work may take the form of a long critical essay, works of fiction or poetry, a research or lab report, a field or case or experimental study, a musical or artistic composition, a theatrical production, or a film. Whatever the form, the Honors Thesis Project should demonstrate both the culmination of four years of intellectual growth appropriate to the field in which the student has majored, as well as the student's ability to move beyond ordinary undergraduate work. The student will be asked to present their project to members of their Committee and Department. (The Thesis Project may, with permission of the student's Department, be coordinated with Departmental senior level projects offered within a department.)

Mathematics Courses

Mt 099 Basic Mathematics 3 Crs.

Foundations of arithmetic, assumptions, fundamental definitions. Cardinal and ordinal numbers. Algebraic expressions. Fundamental operations on polynomials. Rational fractions. Exponents and radicals. Algebraic equations. (For students who fail the department entrance examination.)

Mt 001 Modern College Mathematics I 3 Crs.

Set theory, the logical method, systems of numeration, functions, the real numbers, algebraic processes, equations and inequalities, complex numbers, and graphs of relations.

Mt 002 Modern College Mathematics II 3 Crs.

Matrices, determinants, systems of equa-

tions, combinational theory, probability, and introductory statistics.

Mt 005 Probability and Statistics 3 Crs.

An introduction to the theory of probability and elementary statistics. Important discrete distributions; sampling theory of large and small samples. Estimating population mean and proportion, and testing hypothesis.

Mt 008 Mathematics for Decision Making 3 Crs.

Inequalities, functions, matrices, systems of equations, probability, and linear programming.

Mt 010 Precalculus 4 Crs.

For the prospective mathematics, operations research or computer science major without the proper background to take Mt 015. Set theory and symbolic logic. Definition of function and algebra of functions. Polynomial and rational functions and analytical trigonometry.

Mt 014 Calculus for Decision Making 3 Crs.

Limits, differentiation, integration, and applications of the calculus.

Mt 015 Introductory Calculus 4 Crs.

First credit hour for Mathematics majors. Differential and integral calculus of the elementary functions with associated analytic geometry. Limit and approximation. Technique and applications of differentiation. Area and integral. Applications. Prerequisite: Mt 010 or passing department test.

Mt 016 Mathematical Analysis I 4 Crs.

A continuation of Mt 015. Limits of functions, implicit and inverse functions, methods of integrations, and limits of sequences. Applications of integration,

improper integrals, power series, parametric representation, and polar coordinates. Prerequisite: Mt 015.

Mt 020 Discrete Mathematics 3 Crs.

A course for computer science majors. Topics include: functions algorithms, graphs and trees, formal logic, and matrix algebra. Prerequisite: Two years high school algebra or equivalent.

Mt 023 Statistics for Decision Making 3 Crs.

This course will emphasize the use of computer software for the analysis of data and the performance of statistical tests.

Mt 103 Linear Algebra 4 Crs.

Sets and mappings, fields and other algebraic structures, vector spaces and subspaces inner product spaces, systems of linear equations, matrix theory, determinants, linear inequalities, and convex sets. Linear mappings, matrices, quadratic forms, and eigenvalues. Prerequisites: Mt 015 and permission of the department.

Mt 104 Mathematical Analysis II 4 Crs.

A continuation of Mt 016, introduces 3-dimensional analytic geometry, multi-variable calculus, real valued functions of several variables, limits and continuing in E^n , partial derivatives, multiple integration, definition of the integral, its existence and interpretations, linear differential equations with constant coefficients, systems of differential equations, the Laplace Transform, and special problems. Prerequisite: Mt 016.

Mt 106–107 Mathematical Probability and Statistics I, II 6 Crs.

Probability as a mathematical system, random variables and their distributions, sequences of random variables, Markov chains, stochastic processes. Statistical in-

ference, estimation, regression, and analysis of variance. Prerequisite: Mt 016.

**Mt 201 Advanced
Multivariable Calculus** 3 Crs.

Mappings from E^n to E^m . Continuity. Jacobian's chain rule for differentiation. Integrals along curves. Line and surface integrals: also in terms of vectors. Vector calculus. Theorems of Gauss, Green, and Stokes. The space of continuous functions. Prerequisites: Mt 103 and Mt 104.

Mt 221 Abstract Algebra 3 Crs.

Continuation of Mt 103. Algebraic systems. Group theory, subgroups, cyclic groups, and basic theorems. Quotient structure, isomorphism theorems, ring theory, and ideals. Integral domains. Prime fields and characteristics. Prerequisites: Mt 103 and Mt 104.

Mt 222 Geometry 3 Crs.

Especially for secondary teachers. A thorough and exact treatment of Euclidean geometry. Incidence and separation properties of planes and space. The theory of groups applied to transformations in the plane and in space, particularly isometries and similarities. Inversion in a circle and in a sphere. Prerequisite: Mt 103.

Mt 231 Numerical Analysis 3 Crs.

Solution of equations. Functional interactions of non-linear equations. Polynomial approximations, interpolation, and quadrature. Initial value problems for ordinary differential equations. Matrix inversion and matrix characteristic values. Prerequisite: Mt 104.

Mt 232 Applied Mathematics 3 Crs.

A course to illustrate the principles and basic styles of thought in solving physical

problems by mathematical methods. Prerequisite: Mt 201.

Mt 313 Real Analysis 3 Crs.

The real numbers, cardinality, metric spaces, subspaces, convergence, Euclidean spaces, and topology. Continuity, differentiability, spaces of continuous functions. Lebesgue measure and integration. Fourier series. Prerequisite: Mt 201.

Mt 314 Complex Analysis 3 Crs.

The algebra and geometry of complex numbers, metric spaces, analytic functions, integration, and Taylor and Laurent series. Contour integration, analytic continuation, conformal mappings, boundary value problems, and integral transforms. Prerequisite: Mt 201.

Mt 315 General Topology 3 Crs.

Introduction to general topology. Topological spaces, mappings of topological spaces. Compactness, product spaces. Nets and convergence. Prerequisite: Mt 313.

**Mt 401 Mathematical
Programming I** 3 Crs.

This course will survey linear programming (emphasizing standard model, formulation, fundamental theorems, variations of the simplex method, and parametric programming) and integer programming.

**Mt 411 Probabilistic Models in
Operations Research** 3 Crs.

This course deals with decision making under uncertainty and develops the operations research tools that are most useful when the stochastic nature of a problem is important. The subject covers decision analysis, queuing theory, inventory theory, Markovian decision processes, and reliability theory, emphasizing applications of

these topics in the analysis of real world problems. Prerequisite: Mt 401.

Medical Technology Courses

The following courses are taken at the hospital:

Me 301 Clinical Microbiology 8 Crs.

Includes the isolation and identification of clinically significant pathogenic bacteria from all types of clinical specimens. Also covered: parasitology, virology, and mycology. Correlations of laboratory findings to disease states emphasized.

Me 302 Blood Banking 3 Crs.

Introduction to human blood groups, compatibility testing, component therapy, and their relation to transfusion. Emphasis on problem solving.

Me 310 Hematology 5 Crs.

Comprehensive study of the principles, procedures, special techniques, and disease states of the cellular components of the blood. Includes hemostasis.

Me 315 Clinical Microscopy 1 Cr.

Principles of the diagnostic procedures for urine, spinal fluids, feces, gastric contents, and other body fluids.

Me 325 Clinical Chemistry 8 Crs.

Manual and automated biochemical analysis of body fluids in health and disease and the clinical applications of test results.

Me 330 Immunology and Serology 3 Crs.

A study of the immune response in health and disease and the use of current techniques for the determination of antigen- antibody reactions.

Me 340 Special Topics in Medical Technology 2 Crs.

Investigation of a special medical technology and/or related topic.

Media Studies Courses

Ms 101 Media: The Extensions of Man 3 Crs.

An introduction to media technology, examining the impact of radio, television, newspapers, and film on the human condition. The course objective is to equip the student to be a perceptive consumer of media output by exploring how each medium codifies reality.

Ms 191-192 History of the Motion Picture I, II 6 Crs.

A course designed to introduce the student to the historical development of film making, highlighting the evolution of the film as a means of expression. Sample films from the past will be shown at each class meeting followed by a discussion of several aspects of the film. Ms 192 traces film history from 1940 to the present. Extensive screening of classic films.

Ms 195 Telecommunications: History, Principles, and Practices 3 Crs.

Ms 193 examines the structure, the product, the process, and the potential of various telecommunications systems. This course also explores ways in which each system increases, constrains, and alters human communication. Both mass systems (such as radio and television) and personal systems (such as telephone) are considered. The course is also concerned with the new technologies such as interactive television and computer-assisted instruction.

Ms 200 Mass Media: Special Subjects 3 Crs.

An opportunity to study current communications topics revolving around the effects of mass media on individuals, communities, and countries. Subjects will be deter-

mined by their topical interest and importance.

Ms 201 Kinetics: A Study in the Moving Image 3 Crs.

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

Ms 212-312 Radio Production I, II 6 Crs.

An introduction to basic radio production. Students prepare for the FCC 3rd class license, learn the audio control board, and develop concepts of radio broadcasting. Because WSHU is integrated into the courses as a laboratory and program outlet, students are required to function as staff members. Prerequisite: Ms 101.

Ms 213-313 Video Production I, II 6 Crs.

An introduction to basic video theory (both conceptual and technical) and production technique. Participants are required to write, produce, and direct videotaped projects. The first semester utilizes Portapak and editing systems; the second semester is built around multi-camera studio productions. Prerequisite: Ms 101.

Ms/En 214 News Writing and Reporting 3 Crs.

An introduction to basic news writing and journalistic reporting principles. Concepts of journalism will provide a format for an analysis of the news media and responsibilities of a journalist in today's society. The workshop sessions attempt to utilize the

concepts in practical work. Prerequisites: Ms 101 and En 012.

Ms 215-315 Film Production I, II 6 Crs.

An introduction to the basic techniques of cinematic composition, editing, and film criticism. The student will also be introduced to the basic administrative and aesthetic aspects of film making. Critical stress will be on super 8mm filming techniques, and the student will be expected to provide film. Prerequisite: Ms 101.

Ms 216-316 Photography Production I, II 6 Crs.

An introduction to the fundamentals of color slide photography. Topics covered in class are camera care and handling, visual literacy, composition, the nature of light, existing and artificial light, color, portraiture, incandescent light, and experimental photography. The second semester expands into multi-image sound-slide production. Prerequisite: Ms 101.

Ms 293 Alternative Media 3 Crs.

Our common experience of the mass media consists of those examples produced commercially such as Hollywood films and network television programming. There is a good deal of work, however, produced outside of the commercial mainstream which constitutes a significant contribution to media history. This course provides an opportunity to view some of this work and to analyze its meaning and merits.

Ms 294 Magazine Publication 3 Crs.

An overview of the entire process of magazine publication, the course covers: history and status of contemporary publication; concept research and development of new magazines; writing and editing; marketing and advertising; relationships to other media; new technologies and the fu-

ture; and employment possibilities. Prerequisite: Ms 101.

Ms 295 Electronic Journalism I 3 Crs.

Designed to analyze and to criticize constructively the process and the product of electronic journalism. The course includes the history of both radio and TV journalism, the social implications of news coverage, techniques, and the economic foundations of contemporary electronic journalism. At the discretion of the instructor, a production component may be included. Prerequisite: Ms 213.

Ms 296 Media as Advertising 3 Crs.

This course is designed to orient the student to the economic base of most media—advertising. The various print media as well as broadcast media will be discussed. The process of advertising in the media, from conception of an idea to completion of a project, will be discovered and applied. Outside speakers will be involved in the course by sharing their experience on specific problems.

**Ms 297 Public Relations:
An Overview 3 Crs.**

The concept of public relations was created from the need of groups of people and institutions to explain themselves to each other. The course will provide an overview of the history, the purpose, and the various methods and skills related to public relations. Time will be devoted to practical sessions, such as choosing appropriate communications media.

**Ms 298 Public Relations:
Practical Applications 3 Crs.**

This course will focus on the implementation of public relations action plans, as applied to specific problems (e.g. mergers, product recall, unionization, plant relocation, strikes, etc.). Both internal and exter-

nal organizational communications programs will be discussed. Guest lecturers from business, institutional, and nonprofit sectors will present actual case problems and their solutions.

**Ms 301 Reading Seminar in
Mass Communications 3 Crs.**

An interdisciplinary study of contemporary theories of mass communications. The course attempts to present an overview of the impact of mass communications by considering them as codes, as symbolic systems, and as manipulative powers on both the conscious and subconscious levels. Reading, writing, discussion, and research are required. Prerequisite: Ms 101.

**Ms 310 Studies in
Sound Environments 3 Crs.**

Based on the concept that the sounds in which we live affect our perceptions and communications, this course offers introduction to the audio environments created by both natural and technological sources. Topics include soundscape study, noise pollution, basic field recording, and sound effects in mass communications. The work of B. Murray Schafer and Tony Schwartz is basic to the course.

Ms 325 Electronic Journalism II 3 Crs.

This course is designed to build on the historical/theoretical background established in Ms 295 (Electronic Journalism I) by offering the practical experience of electronic field production and editing. Four issues of "SHU Magazine," the campus video programs, will be produced using the rigorous techniques of investigative reporting. Studio production is also included. Prerequisites: Ms 213 and Ms 295.

Ms 333 Scriptwriting 3 Crs.

An introduction to writing for fiction and

non-fiction film and television. Basic dramatic theory, narrative structure, characterization, dialog, adaptation, and the unique demands of the audio/visual media will be covered as well as pragmatic matters of format and the marketplace.

Ms/En 370 Newspaper Publication 3 Crs.

An introduction to newspaper publication, providing editing and publications practice. Emphasis will be on copy selection, copy editing, story placement, headline writing, use of art, page layout, copy fitting, and use of stylebooks. In addition, issues affecting newspaper production will be discussed including libel, production economics, and legal restrictions such as copyright and First Amendment rights. Prerequisite: Ms/En 214 or permission of instructor.

Ms 380 Film Directors 3 Crs.

An examination of individual film authors whose contributions to the history of the cinema have been especially notable. Film directors will be studied for their stylistic and philosophical innovations, as well as for their historical place in the medium. Each semester a particular director will be chosen for study.

Ms 381 Images of Women in Film 3 Crs.

Films are cultural artifacts. Each film contains within itself a complex social system reflecting the attitudes values and mores of the society that produced it. This course attempts to uncover these values that encode the function of women on screen: the images they project; the roles they assume; the values they encode; and the relationships they establish with men, children, and each other.

Ms 390 Television Genres 3 Crs.

A study of individual television forms, including the teleplay, the documentary,

the docudrama, and the situation comedy. Emphasis is focused on the historical development of the genre, the particular characteristics of the genre which affect its content and style, and meaning of this kind of programming within a cultural context.

Ms 391 Film Seminar 3 Crs.

An intensive course focusing on specific aspects of film history, theory, and criticism, with special emphasis given to film's relationship to society. Each semester the course concentrates on an individual topic of discussion.

Ms 392 Film Genres 3 Crs.

A study of particular film forms, including the western, the gangster film, science-fiction, the horror film, comedy, documentary, and others. Attention will be paid to the themes and stylistics of genres, and to the genre film's contemporary cultural significance and contribution to the history of ideas.

Ms 393 Film Directors 3 Crs.

An examination of individual film authors whose contributions to the history of the cinema have been especially notable. Film directors will be studied for their stylistic and philosophical innovations, as well as for their historical place in the medium. Each semester a particular director will be chosen for study.

Ms 395 Media Practicum 1-3 Crs.

An opportunity for outstanding senior media studies majors to assist in the planning and production of media projects contracted by the University or by outside agencies. By permission of the Chairperson of Media Studies. Offered only when appropriate projects are available.

Ms 396 Internship 1-6 Crs.

An opportunity for qualified upper divi-

sion media studies majors to gain practical experience at area media/communications companies such as radio/television stations, cable companies, newspapers, magazines, and public relations firms.

Ms 397 Senior Project 3 Crs.

The purpose of the Project is threefold—to create an opportunity for a senior media studies student to apply creative theory to practice; to stress the interdisciplinary aspects of media communication; to provide the student with a “portfolio” product which might be used as a demonstration of his/her ability to communicate through media.

Ms 399 Independent Study 1–3 Crs.

Work on a special topic or production to be arranged with an instructor who will direct the work. Permission of the Chairperson of Media Studies will be granted to qualified media studies majors on the basis of a written prospectus. By special arrangement.

Modern Foreign Language Courses

French

Fr 011–012 First Year French I, II 8 Crs.

The course is intended for students who have no previous education in French. Beginning with the basic grammar patterns, emphasis will be put on constant oral practice designed to lead to the training in oral expression, reading, and writing. An understanding of the French people and their culture will be attained through the readings and conversation. Intensive laboratory practice to implement classroom work will be part of the course.

Four hours lecture and one of supervised laboratory per week.

Fr 051–052 Intermediate French I, II 6 Crs.

Review and intensified study of structure, reading short works, vocabulary building, composition, and conversation. French culture as reflected in daily life. Laboratory practice. Prerequisite: Fr 012 or equivalent.

Fr 101–102 French Composition and Grammar I, II 6 Crs.

More complex grammar; enrichment of vocabulary; and improvement of proficiency in speaking, reading, writing, and translating; based on literary and cultural texts. Prerequisite: Fr 052 or equivalent.

Fr 111–112 Conversational French I, II 6 Crs.

An integrated study of French as it is spoken and written today. Prerequisite: Fr 052 or equivalent.

Fr 215–216 French Readings and Discussion I, II 6 Crs.

A course designed to improve reading ability and oral self-expression through selected readings on French culture and civilization, as well as from French authors followed by discussions and written reports. Additional readings from French newspapers and magazines to suit individual interests.

Gaelic

G1 001–002 Elementary Gaelic I, II 6 Crs.

Basic language patterns learned in the context of normal cultural situations. Practice in understanding, speaking, reading, and writing Gaelic. Students will study Irish culture as reflected in daily life.

The second semester will provide further instruction in the language.

Gl 051-052 Intermediate

Gaelic I, II

6 Crs.

A continuation of Elementary Gaelic I and II. Gaelic grammar and vocabulary will be strengthened. Prerequisite: Gl 002 or permission of instructor.

Gl 101-102 Advanced Grammar and Conversation I, II

6 Crs.

Review of grammar, translation, and composition. Drill in written and oral self-expression. The use of tape recordings to facilitate the mastery of conversations. Poetry and literary selections are used to reflect the culture and characteristic traits of the Irish people. Prerequisite: Gl 052 or permission of instructor.

German

Ge 011-012 First Year

German I, II

8 Crs.

The course is intended for students who have no previous education in German. Beginning with the basic grammar patterns emphasis will be put on constant oral practice designed to lead to the training in oral expression, reading, and writing. An understanding of the German people and their culture will be attained through the reading and conversation. Intensive laboratory practice to implement classroom work will be part of the course. Four hours lecture and one of supervised laboratory per week.

Ge 051-052 Intermediate

German I, II

6 Crs.

A continuation of elementary German. The aim of this course is to gain increased control and proficiency in reading, writing, and speaking of German; to improve mastering grammar, vocabulary, and

idioms; and to become acquainted with German culture. Prerequisite: Ge 012.

Italian

It 011-012 First Year

Italian I, II

8 Crs.

The course is intended for students who have no previous education in Italian. Beginning with the basic grammar patterns, emphasis will be put on constant oral practice designed to lead to training in oral expression, reading, and writing. An understanding of the Italian people and their culture will be attained through the readings and conversation. Intensive laboratory practice to implement classroom work will be part of the course. Four hours lecture and one of supervised laboratory per week.

It 051-052 Intermediate

Italian I, II

6 Crs.

Review and intensified study of structure, reading of short works, vocabulary building, composition, and conversation. Prerequisite: Contemporary It 012 or equivalent.

It 101-102 Italian Composition and Grammar I, II

6 Crs.

More complex grammar; enrichment of vocabulary; and improvement of proficiency in speaking, reading, writing, and translating based on literary and cultural texts. Prerequisite: It 052 or equivalent.

It 111-112 Conversational

Italian I, II

6 Crs.

An integrated study of Italian as it is spoken and written today. Intensive oral practice, pronunciation, vocabulary, reading, comprehension, short speeches, and group

discussions. Prerequisite: It 052 or permission of instructor.

It 215–216 Italian Readings and Discussion I, II 6 Crs.

Essentially an advanced language course with equal emphasis on improved skills in reading, writing, and speaking. Introduction to Italian culture and civilization through readings and discussions of selected Italian writings.

Japanese

Jp 001–002 Elementary Japanese I, II 6 Crs.

An introduction to modern Japanese. Pronunciation drill, grammar, and conversation practice with an introduction to the “hira-gana” writing system. Additional language laboratory sessions required.

Jp 051–052 Intermediate Japanese I, II 6 Crs.

A continuation of elementary Japanese. Pronunciation drill, grammar and higher level conversational practice. Introduction to the “kanji” writing system and its application. Additional laboratory sessions required.

Polish

Pl 001–002 Elementary Polish I, II 6 Crs.

An introduction to Polish stressing pronunciation, aural comprehension and basic conversation, fundamental principles of grammar, training in reading, comprehension, and writing.

Pl 051–052 Intermediate Polish I, II 6 Crs.

More complex grammar; enrichment in vocabulary; and improvement of proficiency in speaking, reading, and translating.

Study of Polish literature as well as reading short works. Prerequisite: Pl 002 or equivalent.

Pl 111–112 Conversational Polish I, II 6 Crs.

Emphasis on conversation and pronunciation, vocabulary and common expression, with some reading and writing. Prerequisite: Pl 052 or Departmental permission.

Pl 215–216 Polish Readings and Discussion I, II 6 Crs.

Readings from contemporary novels, poetry, plays, and newspapers. Discussion based on works in Polish literature and current affairs. Prerequisite: Pl 052 or Departmental permission.

Russian

Ru 001–002 Elementary Russian I, II 6 Crs.

Basic Russian stressing conversation and vocabulary building. Introduction to the basic structure of Russian. vocabulary building. Introduction to the basic structure of Russian.

Ru 051–052 Intermediate Russian I, II 6 Crs.

Principles of elementary Russian grammar are reviewed and extended with further training in understanding, speaking, reading, and writing. Prerequisite: Ru 002.

Spanish

Sp 003–004 Practical Spanish for Everyday Use I, II 6 Crs.

Vocabulary and conversation for people who deal with the Spanish-speaking in banks, stores, social service, and hospitals.

Sp 008 Spanish for Medical Personnel 3 Crs.

Vocabulary and conversation for people

who deal with the Spanish-speaking in hospitals and other health services.

**Sp 011-012 First Year
Spanish I, II**

8 Crs.

The course is intended for students who have no previous education in Spanish. Beginning with the basic grammar patterns, emphasis will be put on constant oral practice designed to lead to training in oral expression, reading and writing. An understanding of the Hispanic people and their culture will be attained through the reading and conversation. Intensive laboratory practice to implement classroom work will be part of the course. Four hours lecture and one of supervised laboratory per week.

**Sp 051-052 Intermediate
Spanish I, II**

6 Crs.

Review and intensified study of authentic language patterns. Readings based on Spain and Hispanic America. Use of the language laboratory is continued. Speaking ability is stressed. Prerequisites: Sp 011 and Sp 012 or equivalent.

**Sp 053-054 Intermediate Spanish
for Social Workers I, II**

6 Crs.

An intermediate course designed especially for students interested in doing social work with the Spanish-speaking. Oral practice in laboratory. Prerequisite: Sp 012 or equivalent.

**Sp 055-056 Intermediate Spanish for
Spanish Speakers**

3 Crs.

Aimed at helping the Spanish-speaking student improve his oral and written expression in his native tongue. Pronunciation Ortografia, Redaccion.

**Sp 101-102 Advanced Spanish
Composition and Grammar I, II**

6 Crs.

Writing controlled compositions based on selections previously read and discussed.

Vocabulary building. Practice in using patterns and structures found in the reading. The course culminates in the writing of free compositions. Prerequisite: Sp 052.

Sp 107 Business Spanish

3 Crs.

A practical course which aims at giving specific vocabulary needed in various occupations which require the use of business Spanish. In addition, students will be given special training in writing business letters. Prerequisite: Sp 052 or permission of the Chairperson.

**Sp 108 Tecnicas de Traduccion
(Spanish for Translators)**

3 Crs.

An introduction to principles of translation. Study and analysis of modern standard Spanish. Syntactic description and development of skills. Investigation and training in the nature and use of Spanish for translation. Prerequisite: Sp 052 or permission of the Chairperson.

**Sp 111-112 Conversation:
Topics for Daily Living I, II**

6 Crs.

An integrated study of Spanish as it is spoken and written today. Intensive oral practice, pronunciation, vocabulary, reading, comprehension, short speeches, and group discussions. Use of audiolingual aids in the laboratory is required. Prerequisite: Sp 052 or equivalent.

**Sp 201-202 Spanish
Literature I, II**

6 Crs.

Reading of the great works of Spanish literature from the Middle Ages to the present day, with emphasis on an under-

standing of the Spanish mind and way of life. Oral and written reports. Use of audiolingual aids in the laboratory is required. Prerequisites: Sp 101 and Sp 102 or permission of Chairperson.

Sp 213 Workshop in Conversational Spanish 3 Crs.

Intensive practice in spoken Spanish through real life situations: shopping, cooking, dining. These and other activities provide a motif for lively conversations in the Spanish languages. Prerequisites: Sp 051 and Sp 052 or permission of the Chairperson.

Sp 214 Workshop in Spanish Grammar 3 Crs.

Analysis of the principal structures necessary for correct speech and writing. Intensive practice in the use of these structures. Prerequisite: Sp 102 or permission of the Chairperson.

Sp 215–216 Spanish Readings and Discussion I, II 6 Crs.

Designed to improve reading ability and self-expression through readings chosen from Spanish authors and followed by discussion. Additional readings from newspapers and magazines, according to individual interests. Prerequisites: Sp 101 and Sp 102 or permission of the Chairperson.

Sp 241 Spanish Phonetics and Phonology 3 Crs.

A study of the sounds of the language. Drill for the improvement of pronunciation and intonation. Recommended for all majors and for those who expect to teach Spanish. Use of audiolingual aids in the laboratory is required. Prerequisites: Sp 101 and Sp 102.

Sp 250 Teatro Contemporaneo de España 3 Crs.

This course will acquaint the student with plays of the important dramatists of the contemporary period in Spain. Included in the session will be a general overview of the history and development of drama in Hispanic literature and an in-depth study of the following authors: Alejandro Casona, Federico Garcia-Lorca, Antonio Abuelo Vallejo, and Alfonso Sastre.

Sp 255 The Essay in Spain and Spanish America 3 Crs.

Representative selections of critic and literary works of the main Hispanic essayists including studies of character, evolution, and controversies of the modern novel. Prerequisite: Sp 202 or 352 or Department permission.

Sp 280 Hispanic Civilization—Spain 3 Crs.

History and culture of the Spanish people from their origins to the present day with emphasis on their arts, their thought, and their lifestyle. Lectures, readings, and reports. Audiovisual materials will be used. Prerequisites: Sp 101 and Sp 102.

Sp 281 Hispanic Civilization—Spanish America 3 Crs.

Designed to promote understanding of the Spanish-American people through the different periods of their history, of their behavior patterns, and their reactions to political, religious, and economic problems. Selected readings. Student presentation of research on various countries. Audiovisual

materials will be used. Prerequisite:
Sp 101 and Sp 102.

**Sp 282 Puerto Rico:
Su Lengua Y Su Cultura** 3 Crs.

A study of Puerto Rico, its people, culture, and language as shown in its literature and political history.

Sp 283 The Hispanic Caribbean 3 Crs.

A comprehension study of the main historical and cultural development of the Caribbean World (Puerto Rico, Cuba, and the Dominican Republic) as seen through the works of the outstanding figures in these areas.

**Sp 284 El Dictador en la Novela
Hispanoamericana del Siglo XX** 3 Crs.

Centers on an analysis of selected novels from the post-modernism to the present. Particular emphasis on the works of M. L. Guzman, M. A. Asturias, A. Roa-Bastos, J. Rulfo, and G. G. Marquez. Close study of texts and evaluation of movements. Prerequisite: Sp 102 or permission of the Chairperson.

**Sp 285 The Spanish American Novel
of the Twentieth Century** 3 Crs.

A thorough study of the modern novel extending from post-modernism and vanguardism to the new generation. Prerequisite: Sp 352 or Department permission.

**Sp 315-316 Conversation:
Contemporary Issues I, II** 6 Crs.

A course sequence designed to improve mastery of spoken Spanish. Discussions based on current materials: books, newspapers, magazines, and filmstrips dealing with life in the Spanish world, both here and abroad. Prerequisites: Sp 111 and Sp 112.

**Sp 317-318 Modern Spanish
Literature: Readings and
Discussion I, II** 6 Crs.

Informal class discussions of modern literary works in Spanish to gain an understanding of today's Spanish authors while improving speaking ability.

**Sp 341 Contrastive Linguistics:
Spanish-English** 3 Crs.

Awareness of the relationship between linguistics and the learning of a new language. Phonological and structural comparison between Spanish and English is an important aspect of the audiolingual approach to the learning and teaching of the Spanish language. Prerequisite: Sp 241 or permission of the Chairperson.

**Sp 351-352 Masterpieces of Spanish
American Literature I, II** 6 Crs.

Reading of the great works of Spanish American Literature from the colonial period to the present day. Lectures and reports based on the works studied. Recordings of outstanding authors and critics. Prerequisites: Sp 201 and Sp 202 or permission of the Chairperson.

**Sp 361 The Spanish
American Fiction** 3 Crs.

A detailed study of poetry, novels, dramas and short stories of the major writers of Spanish American fiction. Prerequisite: Sp 352 or Department permission.

**Sp 365 The Boom of the
Spanish-American Novel** 3 Crs.

The origins, development, and international impact of the "boom" in Spanish-American literature. Topics include writers of this "new novel" that is really new, and that has been borrowed and partially changed from the old Spanish-American novel.

Music Courses**Mu 101 Introduction to Opera 3 Crs.**

A survey of representative operas from the 17th century to the present with emphasis upon the relationship between music and drama.

Mu 102 History of Jazz 3 Crs.

An analysis survey of jazz styles from the African sources to the present.

Mu 103 Music in Christian Worship 3 Crs.

The function of music in worship from the early Christian Church to the present. Emphasis upon the relation between historical practices and requirements of music in the modern liturgical renewal.

Mu 111 Music in Western Civilization 3 Crs.

An introductory study of musical style, content, and function as shaped by the culture of the age in which the music was created.

Mu 112 Music in America 3 Crs.

A study of music of the United States by genre, including folk, popular, jazz and fine art. Emphasis upon cultural context and aural analysis.

Mu 121 Musicianship I 3 Crs.

Music notation and reading. Construction and function of scales, intervals and triads, correlated ear training, sight signing, keyboard, and creative exercises.

Mu 122 Musicianship II 3 Crs.

Harmony, including seventh and ninth chords, non-harmonic tones, and modulation. Advanced ear training, keyboard harmony, and analysis. Prerequisite: Mu 121.

Mu 131 Private Lessons 1 Cr.

Private instruction in selected instruments

or voice. One half-hour lesson per week. Lab fee required.

Mu 132 Private Lessons 2 Crs.

Private instruction in selected instruments or voice. One hour lesson per week. Lab fee required.

Mu 133 Chorale 1 Cr.

Select mixed chorus, presenting concerts at the University and in the community. Admission by audition.

Mu 134 Chamber Orchestra 1 Cr.

Admission by audition to performers on woodwind, brass, or string instruments.

Mu 135 Ensemble 1 Cr.

Ad hoc ensembles formed according to student interest. Admission by audition.

Mu 211 Twentieth Century Music 3 Crs.

Style, content, and function of music in the 20th century and western society. Music as fine art and popular art, diversity, and divergence. Prerequisite: Mu 111 or 121.

Mu 212 Topics in Music 3 Crs.

Study of selected musical styles, genres, or themes. Emphasis on experiencing music through live performance. Topics vary each semester; may be repeated for credit.

Operations Research Courses**Or 012 Introduction to Management Science 3 Crs.**

Introduction to mathematical models as aids in managerial decision making. Emphasis on deterministic linear models, particularly linear programming problems. Examples of planning problems in the public and private sectors.

Or 121 Mathematical Models in Management Science 3 Crs.

Stresses insights for decision making that

stem from scientific analysis. Develops skills in formulating and building models that are aids to executive decisions. Includes linear, dynamic, and combinatorial models. Covers optimization techniques of simplex algorithms, shortest route method, recursive programming, horizon analysis, branch-and-bound, and sensitivity analysis.

Or 132 Mathematical Programming I 3 Crs.

Linear programming theory, the simplex algorithm and duality theory. Optimal network flows including the max-flow and min-cut theorem, algorithms for the transportation problem. Computational aspects of the simplex algorithm including the revised simplex algorithm. Introduction to integer programming including cutting plane algorithms, branch and bound algorithms, and implicit enumeration algorithms.

Philosophy Courses

Ph 101 Introduction to the Problems of Philosophy 3 Crs.

Philosophy is defined for the beginning student through an exploration of the branches of philosophy and their respective problems.

Ph 211 Formal Logic 3 Crs.

This course constitutes an introduction to logical symbolism and its applications, including the sentential and predicate calculus (with quantifications), propositional function, and Boole-Schroeder algebra. Prerequisite: Ph 101.

Ph 212 The Art of Making Sense: Practical Logic 3 Crs.

This course emphasizes the practice of logical analysis in classroom exercises. The course focuses on how to make our ideas clear, how to reason correctly, and how to

evaluate evidence used to substantiate a truth claim. Prerequisite: Ph 101.

Ph 214 The Philosophy of Human Communication 3 Crs.

Utilizing philosophical works in areas of speech, body language, and semiotics (the language of signs), this course will investigate the extent to which each individual creates his own language and the limits which society places upon the continuing events known as interpersonal communications. Prerequisite: Ph 101.

Ph 225 Philosophy of Plato 3 Crs.

This course attempts to analyze the question of what it means to be philosophical through an exploration of selected Platonic dialogues. Through an examination of poetry, knowledge, speech, and love, the nature of the philosophical life will be discussed. Prerequisite: Ph 101.

Ph 231 Philosophy of Knowledge 3 Crs.

A study of the conditions which make knowledge possible and the criteria of truth and falsity. Prerequisite: Ph 101.

Ph 251 Ethics 3 Crs.

An introductory study of the problems, language, and reasoning appropriate to the inquiry into the nature of morality. Prerequisite: Ph 101.

Ph/Lw 253 Philosophy of Law 3 Crs.

An inquiry into the philosophical foundations of the law in terms of social, political, economic, theological and ethical considerations. The nature, sources, purposes, and methods of the law. Prerequisite: Ph 101.

Ph/Lw 254 Law and Ethics 3 Crs.

A philosophic inquiry as to the proper role of law in respect to contemporary moral problems, and the limitations such prob-

lems impose upon the law. Prerequisite: Ph 101.

Ph 255 Political Philosophy 3 Crs.

This course will treat the perennial question of political philosophy—whether or not men can know and found the best political regime—in order to shed light on the nature of modern political systems. Issues discussed will include the difference between ancient and modern political theory, the relation of philosophy to politics, and the influence of technological thinking on political systems. Prerequisite: Ph 101.

Ph 256 The Philosophy of Technology 3 Crs.

This course analyzes critically some representative views of the social role of technology. In doing so it addresses two fundamental questions: First, what are the nature and extent of technology's impact on social institutions and individual lives? Second, to what degree is this impact beneficial and to what degree harmful? Prerequisite: Ph 101.

Ph/Bu 257 Business Ethics 3 Crs.

An investigation of the philosophical questions which arise in normal business situations. The case-study method will be used to examine such questions as nepotism, competition, marketing, career advancement, and product research. There will be consideration given to the question of whether a special ethic should apply to business situations. Prerequisite: Ph 101.

Ph 258 Medical Ethics 3 Crs.

A study of ethical theories and their application to current biomedical issues, such as death and euthanasia, abortion, patient's rights, professional responsibilities, human experimentation, behavior control, and

genetic testing and experimentation. Prerequisite: Ph 101.

Ph 260 Woman In Western Philosophy 3 Crs.

Woman in Western Philosophy aims at providing the student with knowledge of our philosophical pasts by presenting an in-depth analysis of our philosophical heritages with special emphasis on the treatment of woman, her nature, and her proper place in the political and social order. Prerequisite: Ph 101.

Ph 262 Existentialism in Art and Literature 3 Crs.

Through a survey of modern art an attempt is made to highlight the modern artists' interpretation of the new direction man has taken in reconstructing his values. Direct emphasis is put on the "existential" as perceived in literature, film, painting, music, and sculpture. Prerequisite: Ph 101.

Ph 270 Philosophical Anthropology 3 Crs.

This course deals with philosophical reflections on the nature and meaning of "man," especially in contemporary philosophy such as existentialism and Marxism. The philosophical writings of Martin Buber and Max Scheler on the nature of "man" will be studied. Prerequisite: Ph 101.

Ph 275 Process Philosophy 3 Crs.

An examination of the influence of the idea of cultural and biological evolution on philosophy in the 19th and 20th centuries, especially on the thought of Bergson, Dewey, Whitehead, and Teilhard de Chardin. Prerequisite: Ph 101.

Ph 278 Values in Conflict 3 Crs.

This course considers in detail contemporary ethical systems. After examining the Judeo-Christian ethical tradition, attention is turned to recent intellectual movements that have affected modern man's reevalua-

tion of classical and traditional morality, namely Marxism, psychoanalysis, and existentialism. An attempt is made to establish a dialogue and a synthesis of these trends. Prerequisite: Ph 101.

Ph 283 The Philosophy of God 3 Crs.

Study of the continuous search for grounding the belief in a transcendent being: God. An investigation of the facts and the arguments used throughout history to prove the reality and the nature of a supreme being. Counterarguments are also considered. Prerequisite Ph 101.

Ph 306 Existentialism 3 Crs.

A study of 19th and 20th century existentialism, especially the thought of Kierkegaard, Nietzsche, Heidegger, and Sartre. Prerequisite: Ph 101.

Ph 307 Introduction to Phenomenology 3 Crs.

This course focuses primarily on the phenomenological philosophy of Edmund Husserl. Some of the topics considered in detail are Husserl's understanding of phenomenology as a philosophical method, the transcendental reduction, consciousness, intersubjectivity, and the lifeworld (*Lebenswelt*). An attempt is also made to probe into Husserl's influence on the phenomenological philosophies of Heidegger, Merleau-Ponty, and Scheler. Prerequisite: Ph 101.

Ph 312 Philosophical Foundations of Marxism 3 Crs.

A study of the philosophical development of the young Karl Marx, from his flirtation with Hegel to Feuerbach, to his own historical perspective. Prerequisite: Ph 101.

Ph 322 American Philosophy and Culture 3 Crs.

Study of the interaction of American philosophical thought and the American experi-

ence as revealed in the philosophies of Edwards, Emerson, Royce, Peirce, James, and Dewey. Prerequisite: Ph 101.

Ph 382 Problems in Contemporary Philosophy 3 Crs.

Topics to be selected by the instructor: they may include: "war and peace," "near death studies," the "contemporary philosophical novel," "new directions in American Philosophy," or "the crisis in contemporary professional ethics," to mention a few. Prerequisite 101.

Ph 399 Independent Study 1-3 Crs.

For students who wish to pursue an area of study for which no course is presently provided. The student must find an instructor competent in his/her proposed topic and secure the permission of the Chairperson and the Dean, from whom the necessary forms may be obtained. Prerequisite: Ph 101.

Political Science Courses

Po 121 Introduction to American Government 3 Crs.

This course explores a variety of areas which collectively comprise the American political system. Students are introduced to the theoretical foundation of American Government, the U.S. Constitution, political behavior, Congress, the Presidency, and the Supreme Court.

Po 122 Introduction to International Relations 3 Crs.

Introduces the student to the fundamental factors in analyzing and understanding international relations. Nature and evolution of the nation-state system, sovereignty, national interest, power, diplomacy, war, and adjustment of international conflict.

Po 212 American State and Local Government 3 Crs.

This course examines the "subnational" level of American politics. Central topics include the constitutional position of state governments, federal-state interaction, financing of state governments, models of state governments, and public policies.

Po/Lw 213 Lobbying and the Legislative Process 3 Crs.

This course focuses on various factors which influence legislative decision making and methods of lobbyists and public interest groups in intervening successfully in the legislative process. Also covered are ethical and legal boundaries for lobbying activity and the development of competency in research involved with legislative intervention by lobbyists and public interest groups.

Po 214 Connecticut State Government 3 Crs.

An examination of the development of the State of Connecticut from the time of its colonial origins to the present day functioning of the Connecticut government system and its legislative responses to issues such as urbanization and industrialization.

Po 215 Political Parties 3 Crs.

The role of political parties in America's democracy is the central concern in this course. The structure and function of party organization, the behavior of the American electorate, and the effectiveness of parties in the governing process are examined. Additionally, the goals and categories of minor parties are discussed.

Po/Lw 216 Congress and the Legislative Process 3 Crs.

An examination of Congress, its constitutional powers, historical development, internal processes, and culture as well as

external influences—executive branch, interest groups, public opinion, and elections.

Po 217 The American Presidency 3 Crs.

An analysis of the role of the chief executive in the American political system. Attention will be given to the evolution, functions, and limits of executive leadership as well as to relations with Congress, courts, bureaucracy, public opinion, and the role of personal style in the office.

Po 218 The Politics of Presidential Elections 3 Crs.

This course explores the various dimensions of presidential elections. Topics include political coalitions, campaign strategy, the role of media and money, conventions, and presidential debates. Problem-solving campaign workshops are periodically conducted within the classroom.

Po 231 Comparative European Politics 3 Crs.

A comparative analysis of the governments and politics of the United Kingdom, France, Germany, and the Soviet Union. Similarities and differences are explored with respect to the patterns of modernization, political culture, political behavior, and political institutions.

Po 233 Comparative Asian Politics 3 Crs.

A comparative study of the politics and governments of Japan, China, and possibly other Asian states with special emphasis upon their modern development.

Po 234 Politics of the Middle East 3 Crs.

A survey of the problems and prospects of the Middle East focusing upon the culture, intrusion of the West, Islam, forces for stability and change, as well as the role of

the Middle East in world affairs. Discussion of contemporary issues.

Po 242 International Organizations 3 Crs.

A study of the origins, evolutions, structure, and functions of major global, regional, and supranational organizations with special attention focused upon the League of Nations and the United Nations.

Po 244 American Foreign Policy Since 1945 3 Crs.

This course treats the major themes of American foreign policy since World War II—containment, deterrence, detente, the use of force, and economic diplomacy — and also the changing bases of national power in a world increasingly characterized by vulnerability to nuclear war, economic danger, and regional instabilities, as well as energy, food, and resource dependencies.

Po 245 U.S. Foreign Policy in Africa 3 Crs.

U.S. foreign policy toward Africa from the 19th century, with emphasis since 1945. This course considers the spread of liberalism in Africa and recent developments in South Africa.

Po 246 U.S. Foreign Policy and the Third World 3 Crs.

This course will include a systematic analysis of Third World value systems and the U.S. foreign policy response to them. The approach of the course will be based on 14 major reading assignments. Enrollment is limited to 12 with the permission of the instructor.

Po 285 Future Politics 3 Crs.

An examination of the alternative futures which face America and mankind as well as the scientific and technological, environmental, social, economic, and political

components which describe and drive them.

Po 301 Development of Ancient and Medieval Political Theory 3 Crs.

Examines the political views of the early philosophers from ancient Greece to the Middle Ages, Plato, Aristotle, and later development of classical political thought through selected works of Roman and Medieval theorists.

Po 302 Development of Modern Political Theory 3 Crs.

The modern political thinkers from Machiavelli to contemporary times. Treatments of Machiavelli, Hobbes, Locke, Rousseau, Hegel, and Marx.

Po 303 Modern Political Ideologies 3 Crs.

An exploration of major political ideologies which guide and shape our thoughts and political lives as well as those of millions globally. Liberalism, conservatism, democracy, socialism, communism, and fascism are among topics addressed.

Po 305 Political Profiles 3 Crs.

A study of the emergence, personality and impact of major 20th century political figures.

Po/Lw 321 Public Administration 3 Crs.

A survey course of administrative theories and skills for those intending to enter the public sector. Theories of public organizations, their legal and political framework, unions, planning, budgeting, communication, leadership, and other skills. Appropriate for those planning careers in service, non-profit organizations, or government agencies.

Po 322 American Public Policy 3 Crs.

The analysis of government policies and programs, generally at the national level.

Evaluations of public needs, options for government response, role of experts, impact of political and social forces and their outcomes. Examination of certain policy areas in welfare, education, crime, energy, and others.

Po 323 Leadership in Organizations 3 Crs.

This course focuses upon the role of leadership in public and private organizations. It is organized in a seminar fashion, utilizing both readings and papers as well as workshops and simulations to enhance student skills in this vital area of career activity. Intended for non-business majors.

Po/Lw 325 Politics, Law, and Judicial Behavior 3 Crs.

The judiciary's role in the American political process is examined. Topics include the nature of law, political influence in judicial decision making, court organization, judicial recruitments and the powers and limitations of the judiciary.

Po 341 International Law 3 Crs.

This course traces the development of international law by reviewing principles and cases in major topical areas.

Po 351/Lw 234 Constitutional Law 3 Crs.

An inquiry into American constitutional law through the study of outstanding cases. Attention is given to the development of constitutional doctrines and the processes of legal reasoning.

Po 391 Internship Program 3-15 Crs.

The Political Science Internship Program offers students valuable field experience in public organizations, the mass media, and political campaigns as well as in municipal, county, state, and national govern-

ment. In all instances, permission for an internship must be secured in advance.

Po 395 Seminar in Political Science 3 Crs.

Advanced study of a particular theme or selected topics in political science in a seminar setting. Open to junior and senior majors or by permission of the instructor.

Po 399 Independent Study 1-3 Crs.

Guided study of a topic that goes beyond normal course offerings under the direction of a member of the political science faculty. Approval of Director of Political Science Program required. By special arrangement.

Psychology Courses

Ps 010 Seminar in Self-Management 3 Crs.

A presentation of techniques useful for life structuring, including personal assessment, goal setting, self-applied behavior modification, and career planning. Does not satisfy Baccalaureate Core or major requirements.

Ps 101 General Psychology—Scientific Aspects 3 Crs.

Introduction to Psychology as the science of behavior, focusing on the individual as an adapting biological system. Topics include history and methodology, physiological basis for behavior, sensation, perception, learning, memory, and thought.

Ps 102 General Psychology—Psychodynamics 3 Crs.

A continuation of Ps 101. Topics include personality development and assessment, person perception, interpersonal attraction, conformity, and behavior disorders. Prerequisite: Ps 101.

Ps 121 Applied Psychology 3 Crs.

A survey of the professional activities of psychologists as applied to the fields of business, advertising, mental health, education, and law.

Ps 125 Psychology of Dreams and Dreaming 3 Crs.

The physiology and interpretation of dreams. Requires the keeping of a dream diary by the students. Prerequisite: junior or senior standing.

Ps 131 Dynamics of Behavior 3 Crs.

Considers the basic nature of both healthy and faulty patterns of human behavior. Topics include personality development, motivation, stress, and adjustment.

Ps 132 Adjustive Behavior 3 Crs.

Considers development and function of groups, the way groups and individuals influence each other, interpersonal relationships such as marriage and occupation, and resources for personal growth and change. Studies applications of concepts for effective behavior. Prerequisite: Any Psychology course.

Ps 135 Drugs and Behavior 3 Crs.

An examination of the relationship between drugs and behavior as manifested in the characteristics and activities of psychoactive drugs, drug users, and society as a whole. Prerequisite: Ps 101.

Ps 141 Expanding Human Awareness I 3 Crs.

A positive focus group experience designed to increase awareness of oneself and others. Current research in the field will also be evaluated. Does not satisfy Baccalaureate Core or major requirements.

Ps 142 Expanding Human Awareness II 3 Crs.

A continuation of Ps 141. Experience and discussion in a positive-focus setting. Does

not satisfy Baccalaureate Core or major requirements. Prerequisite: Ps 141 and permission of instructor.

Ps 151 Statistics for the Behavioral Sciences 3 Crs.

An introduction to the basic concepts and techniques of statistics as they apply to behavioral research. Topics include the organization of data, measures of central tendency and variability, correlation, sampling error, parametric and non-parametric tests of significance, and an introduction to analysis of variance. Prerequisite: C or better in Mt 002.

Ps 152 Research Design and Analysis 3 Crs.

The application of statistical principles to the mechanics of the scientific method within the context of psychological research. Stress is placed on the design of models for hypothesis testing, relation of theory to hypothesis, and control of extraneous variables. Prerequisite: Ps 151.

Ps 161 Psychological Evaluation 3 Crs.

A description and demonstration of the tests and other diagnostic procedures used by psychologists in conducting an evaluation of children and adults in a school or private setting. Consideration will be given to what is looked for and how it is assessed in a psychological evaluation.

Ps 171 Psychology of Women 3 Crs.

A survey and examination of current research and theories about women and sex roles. Topics discussed include attitudes toward women, motherhood, mother-daughter and father-daughter relationships, women and work, sexuality, marriage,

love, and the biology of women. Prerequisite: Ps 101.

Ps 181 Assertiveness Training 3 Crs.

The purpose of this course is to develop an understanding of theory and applications of assertiveness training, to develop an awareness of self, and the implications that this course provides for personal growth. Topics explored include: Theoretical Development of Behavior Therapy, Assertiveness Training Process, Development of Skills and Abilities. Does not satisfy Baccalaureate Core or major requirements.

Ps 191 Paranormal Psychology 3 Crs.

Considers a wide variety of "psychic phenomena" including: ESP, spirit manifestation, possession, and spiritual healing. Discussions of supportive evidence and explanatory theories help students develop critical perspective that will assist them in making informed judgements as to what is or is not believable.

Ps 195 Health Psychology 3 Crs.

This course examines how psychological factors influence physical health and illness. Discussion focuses on how attitudes and personality factors contribute to the maintenance and recovery of health, and to the development of diseases such as hypertension, coronary heart disease, and cancer. Coping mechanisms, stress management techniques, and behavioral change methods for health promotion and the treatment of illness are also considered. Prerequisite: Ps 101.

Ps 215 Social Psychology: Microprocesses 3 Crs.

Focuses on how people are affected by the persons around them. Topics discussed include person perception, first impres-

sions, interpersonal attraction, nonverbal communication, romantic love, prejudice, stereotyping, aggression, conformity, obedience, and environmental influences on behavior. Prerequisite: Ps 101.

Ps 241 Psychology of Personality 3 Crs.

Focuses on the personality theories of Sigmund Freud, Carl Jung, Alfred Adler, Karen Horney, and transactional analysis. Prerequisite: Ps 101.

Ps 242 Psychology of Personality II: The Existentialists 3 Crs.

This course considers more recent approaches to personality, particularly the Existential-Humanistic perspective. The viewpoints of such thinkers as Sartre, Marcel, Buber, Maslow, Allport, Rogers, May, Frankl, etc., will be considered. Prerequisite: Ps 101 or permission of instructor.

Ps 252 Child Development Psychology 3 Crs.

Biological, psychological, and social factors in child development from birth to pre-puberty with particular emphasis on cognitive, emotional, and personal social functioning. Prerequisite: Ps 101.

Ps 260-269 Experimental Psychology 3 Crs.

A series covering research techniques and literature in a particular area of psychology. Laboratory work is included. Six credit hours are required for major.

Ps 261—Perception Ps 265—Cognition

Ps 262—Learning Ps 266—Social Psychology

Ps 263—Sensation

Ps 264—Emotions Ps 267—Motivation

Ps 272 Adolescent-Old Age Psychology 3 Crs.

An interdisciplinary study of the development and behavior of the human being from puberty to old age. Includes issues and problems relevant to adolescence, developmental tasks of adulthood and middle age, psychological characteristics of the elderly, and the psychology of death and dying. Prerequisite: Ps 101.

Ps 273 Adolescent Development 3 Crs.

An interdisciplinary study of development and behavior in adolescence with emphasis on various issues and problems as well as coping mechanisms for adolescents and adults.

Ps 274 Adult Development 3 Crs.

Consideration of the various psychological issues and developmental tasks of adulthood and middle age, psychological characteristics of the elderly, and the psychology of death and dying.

Ps 285 Psychological Counseling I 3 Crs.

This course will cover the philosophy of counseling, fundamental principles, and the attitudes and techniques involved in a helping relationship. Several theories or approaches to counseling will be presented. Prerequisite: Ps 101.

Ps 289 Community Mental Health 3 Crs.

A course aimed principally at the following factors: (1) identification and delineation of contemporary mental health problems and issues; (2) a critical re-examination of basic models and assumptions; (3) planning procedures for the utilization and conservation of health resources; (4) development of community services with emphasis on prevention; and (5) research and

evaluation techniques. Prerequisite: PS 101 or So 101.

Ps 292 Systems and Theories of Psychology 3 Crs.

A historical survey of theoretical formulations and systems in psychology with evaluation of the contributions of structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, learning theory, and the physiological orientation. Prerequisites: Ps 101, Ps 102, and senior standing.

Ps 301 Basic Concepts in Psychology 3 Crs.

An advanced seminar devoted to discussing original sources covering basic concepts and current controversies in psychology. Prerequisite: Psychology major and senior standing or permission of the Chairperson.

Ps 311 Abnormal Psychology 3 Crs.

This course considers more serious types of disordered behavior, such as schizophrenia, brain damage, retardation, alcoholism, etc. Various viewpoints concerning sexual deviations and sexual dysfunctions will comprise a segment of the course, as will a discussion of homosexuality. Prerequisite: Ps 102 or permission of instructor.

Ps 314 Psychology and Religion 3 Crs.

Deals with many of the overlapping concerns and insights of the fields of psychology and religion. Investigates some of the significant impacts psychology has made on traditional religious faith and some of the influences of religion upon mental health. Prerequisite: Junior or senior standing.

Ps 321 Psychological Counseling II 3 Crs.

A study of the various dimensions of a helping relationship, including the establishment of goals and the consideration of

the practical forces involved. Prerequisite: Ps 285.

Ps 322 Seminar in Interpersonal Relations 3 Crs.

A seminar designed to acquaint the student with current research and techniques in group dynamics, assessment of normal and abnormal behavior, and other problems related to interpersonal development. Prerequisite: Ps 101.

Ps 331 Psychological Tests and Measurements 3 Crs.

Principles of test theory in psychology; validity, reliability, and standardization of tests; survey of representative types of tests and measurements. Prerequisite: Ps 101.

Ps 341 Motivation: Principles and Applications 3 Crs.

A seminar which incorporates experimental exploration of human motives. Three units treat the physiological origins of needs, drives, and emotions; emotional experience of different motives (role playing, games, and group experiences); and clinical, educational, and business applications.

Ps 345 Introduction to Individual Growth and Group Dynamics 3 Crs.

An introduction to the dynamics of personal growth and development, coupled with an experiential component designed to enhance individual growth as well as to experience and observe group dynamics. Emphasis is on the dynamics of stress and stress management. This course is limited to special students with demonstrated leadership ability. Does not satisfy Baccalaureate Core or major requirements.

Ps 351 Physiological Psychology 3 Crs.

This course examines the molecular and molar views of the nervous and endocrine

systems and emphasizes the roles of these systems in behavior. Prerequisite: Ps 101.

Ps 355 Environmental Psychology 3 Crs.

An empirical inquiry into the effects of environment on behavior. Climatic variables, population density, urban stress, territoriality, styles of architecture, and spatial patterning are some of the foci of inquiry. Prerequisite: Ps 101.

Ps 390-395 Psychological Research 1-6 Crs.

A senior course in which selected students conduct original independent research culminating in a formal written report at the end of the semester. By special arrangement with Chairperson.

Ps 396 Field Experience in Psychology 3 Crs.

Bridges the gap between theory and practice. Supervised practice is set in area agencies, schools, and institutions. Workshops focus on career assessment, values clarification, supervision issues, and personal growth. Open to junior and senior Psychology majors and minors. Prerequisites: Ps 101, Ps 102, and one other psychology elective.

Physics Courses

Py 015 Physics in Daily Life 4 Crs.

An elementary physics course designed for non-science majors. The course will stress the application of physics to daily life. Specific topics will include astronomy, nuclear energy, earth science, satellites, medical applications, and physics in design of structures ranging from bridges to tires. Three hours of lecture and two hours of laboratory per week.

Py 100 Elements of Physics 4 Crs.

An introductory, non-calculus course, in-

corporating the basic laws of motion and energy, the properties of matter including the gaseous state, the principles of electricity, magnetism, electromagnetic radiation, and the properties and principles of nuclear radiation. This course is designed for students in medical technology and related fields. Two 75-minute lectures and one two-hour laboratory per week.

Py 111 General Physics I 4 Crs.

Topics covered include vectors, forces, uniformly-accelerated motion, linear and angular motion, work and energy, momentum, rotation, mechanical and thermal properties of matter, the gas laws, temperature and heat transfer. Two 75-minute lectures and one two-hour laboratory per week. Prerequisite: Mt 002 or equivalent.

Py 112 General Physics II 4 Crs.

This is a continuation of Py 111. Topics covered include: vibrations and wave motion, sound, electricity, and magnetism; the reflection, refraction, interface, and diffraction of light; lenses and mirrors, and optical devices. Two 75-minute lectures and one two-hour laboratory per week. Prerequisite: Py 111 or permission of the Chairperson.

Py 151 Principles of Physics I 4 Crs.

A calculus-based physics course covering the topics of mechanics, work, energy, thermal properties, and atomic structure. Two 75-minute lectures and one two-hour laboratory per week. Prerequisites: Mt 015 and Mt 016 or concurrent enrollment.

Py 152 Principles of Physics II 4 Crs.

A continuation of Py 121 with emphasis on wave motion, sound, electricity, magnetism, and light. Two 75-minute lectures

and one two-hour laboratory per week. Prerequisites: Py 151 and Mt 016.

Religious Studies Courses

Courses with an asterisk (*) are open to both undergraduate and graduate students.

Rs 101 Introduction to the Study of Religion 3 Crs.

A critical and constructive study of the nature of religion, of its functions in human life, and of its various forms and manifestations.

Rs 210* Introduction to Biblical Method and Criticism 3 Crs.

A brief history of biblical criticism leading up to an in-depth analysis of the achievements of recent biblical research in the area of New Testament studies. Prerequisite: Rs 101.

Rs 211* Introduction to the Old Testament 3 Crs.

A historical examination of the development of Old Testament traditions as well as a consideration of the historical rise of the people of Israel, the distinctive religious awareness that accompanied it, and Israel's understanding of God, man, and history. Prerequisite: Rs 101.

Rs 213 Comparative Religion 3 Crs.

A comparative study of the central themes in the major religions of the world—Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam. Prerequisite: Rs 101.

Rs 223* Paul 3 Crs.

An examination of the life and letters of Paul, his understanding of man, the world, and the reality of God and His justice. Prerequisite: Rs 101.

- Rs 224* The Gospel of John** 3 Crs.
A critical interpretation of the Gospel of John. Prerequisite: Rs 101.
- Rs 229* Jesus** 3 Crs.
An attempt to recover the words and actions of the historical Jesus through a proper methodological examination of the sources. Special emphasis will be given to the parables of Jesus. Prerequisite: Rs 101.
- Rs 230 The Death and Resurrection of Jesus of Nazareth** 3 Crs.
The course will concern itself with the development of the traditions of the death and resurrection of Jesus which now stand in the gospels of Matthew, Mark, Luke, and John. Interest will be taken in isolating those factors that influenced the development as well as historical matters. Prerequisite: Rs 101.
- Rs 232* Contemporary Religious Thinkers** 3 Crs.
A close examination of the selected, representative writings of a specific religious thinker(s). In any given semester, the course will focus on the work of either an important theologian or a contemporary scholar of religion. Students should consult the instructor of the course in order to obtain information concerning the topic for that semester. Prerequisite: Rs 101.
- Rs 243* The Development of Christian Thought** 3 Crs.
The course of the Church's historical and dogmatic traditions will be traced from the New Testament period through contemporary developments in light of the original Christian dynamic. Prerequisite: Rs 101.
- Rs 244 American Catholicism** 3 Crs.
A survey of the history of American Catholic life and thought. This course will underscore those issues that have been and
- continue to be especially relevant to Roman Catholics in America. The writings of selected American Catholic theologians will be examined and the significance of other prominent Catholic figures will be explored.
- Rs 245* Contemporary Roman Catholic Thought** 3 Crs.
A survey of the various intellectual, political, and social movements that have shaped contemporary Roman Catholic life and thought. The course will trace the recent development of Roman Catholic theology, and the special significance of the Second Vatican Council will be explored. Prerequisite: Rs 101.
- Rs 246* Constructing the Concept of God** 3 Crs.
The course is concerned with the development of a concept of God appropriate for modern life. The readings will reflect various approaches to the God question and students will be asked to critically dialogue with both the lectures and the reading. Prerequisite: Rs 101.
- Rs 248 Contemporary Protestant Thought** 3 Crs.
Barth, Bultmann, Neibuhr, Tillich and Bonhoeffer have all left an indelible mark on present theological thought. This course will explore the major themes that run through the work of these theologians. Prerequisite: Rs 101.
- Rs 249 Contemporary Jewish Thought** 3 Crs.
A survey and comparison of the writings of contemporary Jewish thinkers such as Buber, Heschel, Rosenzweig, and Fackenheim. Prerequisite: Rs 101.
- Rs 257* Contemporary Moral Issues** 3 Crs.
An examination of selected moral prob-

lems that involve a significant conflict of values in our contemporary pluralistic society: sexual ethics, biomedical ethics (abortion, genetic engineering, behavior modification, euthanasia), revolution and violence, environmental quality, and population policy. Prerequisite: Rs 101.

Rs 258* Issues in Religious Ethics 3 Crs.

A study of some of the more important issues confronting the contemporary attempt to construct a philosophically and theologically adequate ethical methodology. Prerequisite: Rs 101.

Rs 260* Religion, Person, and Society 3 Crs.

An examination of the major contemporary social problem areas: family, education, government, business, and the religious values that can be brought into play to meet them. Special focus on "The Church and the Modern World" of Vatican II and its practical implications today. Prerequisite: Rs 101.

Rs 261* Symbol, Myth, and Ritual 3 Crs.

The basic categories of symbol, myth, and ritual will be defined and their religious significance will be explored. Theoretical analyses of the human symbolic imagination will also be examined. Prerequisite: Rs 101 (for undergraduate students only).

Rs 262* Family Institute 3 Crs.

This week-long course is offered in the summer and can be taken for credit or non-credit. The course explores issues relating to the contemporary Christian family in today's complex world. Some of the topics covered in past institutes have been the communication of personal values within the family and the installation of social values in the young. Please consult

the Religious Studies Department for current topic. Prerequisite: Rs 101 (for undergraduate students only).

Rs 263* Summer Institute 3 Crs.

Each summer the Institute for Religion and Society offers a one-week course addressing a variety of topics pertaining to Religious Studies which can be taken for credit or non-credit. The course content and instructors change each year. Some of the courses that have been offered in the past are: "The Spirituality of Women," "Developing the Whole Person: Body, Mind, Spirit," "Dreams and Spiritual Growth," and "Values and Communication." Please consult the Religious Studies Department for current topic. Prerequisite: Rs 101 (for undergraduate students only).

Rs 265* Problems in the Philosophy of Religion 3 Crs.

Some of the principal problems concerning the nature and justification of religious belief and experience from the viewpoints of philosophical analysis and religious existentialism. Prerequisite: Rs 101.

Rs 268* Classics of Western Spirituality 3 Crs.

A close examination of the writings of one or more of the great spiritual masters of the western religious traditions (e.g., John of the Cross, Theresa of Avila, Ignatius Loyola, Teilhard de Chardin, Martin Buber, Thomas Merton). Prerequisite: Rs 101.

Rs 269 Computer Technology, Ethics, and Religion 3 Crs.

As the development and use of computer technology continues throughout our society, ethical questions pertaining to information possession, storage, retrieval, and processing are drawing increased concern. Along with these, tensions developing

from increased automation continue to mount.

Consequently, there is an emerging need for concentrated theoretical and applied ethical education to come to grips with these issues in their depth and complexity. Moreover, a combination of philosophical and religious inquiry is required for comprehensive, realistic treatment in our pluralistic culture. Prerequisite: Rs 101.

Rs 270* Religion, Business, and Society 3 Crs.

This course will look to the specific challenges arising from modern corporate business technology as viewed within the context of an incarnational theology of work and social responsibility. Prerequisite: Rs 101.

Rs 271 Science and the Sacred 3 Crs.

An exploration of the differences, similarities, and intersections between science and religion. The relation between scientific paradigms and religious myths will be examined, and scientific and religious concepts of "experience" will be compared. Ecclesiastical, medical, and scientific roles; practices and institutions will be contrasted; and the attempt to synthesize science and religion will be evaluated. Prerequisite: Rs 101.

Rs 273* Women Writers and the Religious Quest 3 Crs.

An encounter with the experience and stories of Atwood, Lessing, Rich, Chopin, and other women writers who provide a new orientation to the sacred. Prerequisite: Rs 101.

Rs 275 The Mystery of Death 3 Crs.

Death endures as the one certain and inevitable "fact" of life. It stands as the reality that cannot be ignored when the question of the meaning of human existence is

raised. It is the intention of this course to allow the revelatory dimensions of death to be. Course taken with the permission of instructor. Prerequisite: Rs 101.

Rs 277 Religious Dimensions of Play 3 Crs.

An examination of the reality of play and its relation to the experience of transcendence and the religious life. Prerequisite: Rs 101.

Rs 285 Religion and the Human Sciences 3 Crs.

An exploration of the significance of psychology, sociology, and other human sciences for contemporary theological understanding. Comparison will also be drawn between the various understandings of the human as derived from scientific and theological humanists. Prerequisite: Rs 101.

Rs 289 Religion, War, and Peace 3 Crs.

The fundamental orientation of the course is constructive. It provides an informed, realistic understanding of the meaning of peace and war and how peace can be worked towards, if not achieved, in the light of basic Judeo-Christian values. Prerequisite: Rs 101.

Rs 290 Elementary Hebrew 3 Crs.

Elements of Hebrew grammar and translations of Old Testament prose. Prerequisite: Rs 101.

Rs 291 Religious Themes in the American Novel 3 Crs.

A reading of contemporary novels with an attempt to examine their religious nature. What are our writers saying about the meaning of our lives and our deaths? Included in this course will be James Agee, James Baldwin, Truman Capote, Isaac Bashevis Singer, and John Updike. Prerequisite: Rs 101.

Rs 292 Film Seminar:**Religion In Film 3 Crs.**

An examination in film of the way people respond (or fail to respond) to opportunities for personal religious growth, moral decision making, etc. The course will center on viewing, reactions to, and techniques of film as religious symbols. Prerequisite: Rs 101.

Rs 294* Elementary**New Testament Greek 3 Crs.**

Introduction to the nominal and verbal systems of Hellenistic Greek designed to provide a basis for reading the Greek New Testament. Prerequisite: Rs 101.

Rs 295* Intermediate**New Testament Greek 3 Crs.**

A study of the syntax of Hellenistic Greek in union with selected readings from the Greek New Testament. The aim of the course is to achieve a moderate reading proficiency at sight. Prerequisite: Rs 101.

Respiratory Therapy Courses**Rt 010 Introduction to the Field of Respiratory Therapy 3 Crs.**

This course provides an introduction to the field of respiratory therapy. Students are acquainted with the health care delivery system and their prospective role within it. The disease entities that a respiratory therapist helps to treat are presented. In addition, an overview of the techniques and technology of the profession is also given via lecture and demonstration.

Rt 020 Introduction to Respiratory Therapy Technology 2 Crs.

This course is designed to reinforce and show the applications of the physical science portions of the curriculum. In addition, it provides the student with detailed knowledge concerning the equipment used

to provide oxygen therapy. The construction and principles of the operation of regulators, flowmeters, humidifiers, nebulizers, and various masks are given emphasis. Prerequisite: Rt 010.

Rt 030 Cardiopulmonary Anatomy and Physiology 3 Crs.

Study of the structure and function of the respiratory system and its relationship to the circulatory system. Areas of emphasis include blood flow, gas exchange, mechanics of breathing and control of ventilation, oxygenation, and transport mechanisms. Pulmonary clearance and lung histology. Prerequisite: Rt 020.

Rt 040 Respiratory Therapy Pharmacology 3 Crs.

Introduction to the basic mechanisms of drug actions with emphasis on the drugs used in cardiopulmonary and renal diseases. Included are bronchodilators, wetting agents, mucolytic agents, diuretics, emergency cardiac drugs, and drugs which have an influence on respiration. The concepts of agonist, antagonist, and pharmacokinetics. Direct and indirect adrenergic and cholinergic agents. Prerequisite: Rt 020.

Rt 050 Arterial Blood Gases 2 Crs.

This course is designed to give an in-depth treatment of arterial blood gases. It investigates the mechanisms by which homeostasis is maintained by the cardiopulmonary and renal systems. The arterial blood gas is used to elucidate these mechanisms. In addition, blood gases are considered from the standpoint of respiratory and metabolic diseases. Techniques for improving adverse blood gases are an integral part of the course. Theory and operation of the blood gas analyzer. Prerequisite: Rt 020.

**Rt 060 Devices Used to Provide
Routine Respiratory Care 2 Crs.**

This course is designed to provide the student with a thorough explanation of the devices and techniques used to provide nebulizer therapy, positive pressure breathing, postural drainage, and breathing retraining. Problems attendant in providing care to patients with chronic pulmonary disease at home are investigated. Laboratory and clinical experiences are integrated with this course. Prerequisite: Rt 020; Corequisite: Rt 070.

**Rt 070 Clinical Practicum: Routine
Respiratory Care I 1 Cr.**

Introduction to routine respiratory care: the student will learn the duties of the respiratory therapist through the "hands-on" approach, experiencing all aspects of patient contact, giving intermittent positive pressure breathing treatments (IPPB) and nebulizer and aerosol therapy, using a variety of pharmacologic agents. Rehabilitative techniques for patients with chronic pulmonary disease, and post-operative care. The student will learn the techniques of chest physiotherapy which include percussion, vibration, shaking, breathing exercises, and breath-sound interpretation. Prerequisite: Rt 020; Corequisite: Rt 060.

**Rt 075 Clinical Practicum: Routine
Respiratory Care II 3 Crs.**

Introduction to routine respiratory care: the student will learn the duties of the respiratory therapist through the "hands-on" approach, experiencing all aspects of patient contact, giving intermittent positive pressure breathing treatments (IPPB) and nebulizer and aerosol therapy, using a variety of pharmacologic agents. Rehabilitative techniques for patients with chronic pulmonary disease, and post-operative care. The student will learn the techniques of chest physiotherapy which include per-

ussion, vibration, shaking, breathing exercises, and breath-sound interpretation. Prerequisite: Rt 070.

Rt 080 Cardiopulmonary Diseases 2 Crs.

Study of disease processes affecting the lungs and their impact on the circulatory system. Points of emphasis include chronic obstructive pulmonary disease (COPD), reversible airways disease (asthma), respiratory failure, myocardial infarction, infant and adult respiratory distress syndrome, and chronic renal failure. Compensatory mechanisms to alleviate the disease process. Prerequisite: Rt 030.

**Rt 090 Management of the
Respiratory Care Department 1 Cr.**

Hospital organization and management. Topics include: duties and relationship of the medical and technical director, agencies impacting on departmental function, hospital policies and procedures relevant to respiratory therapy, current issues in health care delivery, quality assurance techniques and responsibilities, preparation of department schedules and budgets, and ordering and maintaining supplies and equipment.

**Rt 100 Life Support and
Stabilization 3 Crs.**

This course provides the student with detailed training concerning the technology and techniques used to provide critical care life support. Students receive "hands-on" experience with artificial airways, manual resuscitation and mechanical ventilators. This course is integrated with laboratory work and clinical experience. Prerequisite: Rt 060; Corequisite: Rt 110.

**Rt 110 Clinical Practicum:
Critical Care 3 Crs.**

This course applies the previous coursework to the clinical setting. Students will provide supervised patient care in the In-

tensive Care Unit, Coronary Care Unit, Recovery Room, Emergency Room, and Newborn Intensive Care Unit. Prerequisite: Rt 030; Corequisite: Rt 100.

**Rt 120 Clinical Practicum:
Pulmonary Function** 1 Cr.

Study and usage of the techniques and equipment found in the Pulmonary Function Laboratory, including arterial blood gas analysis and pulmonary function testing. Cardiac laboratory and bedside catheterization. Special procedures in nuclear medicine, ultrasound, and radiology relevant to assessment of the cardiopulmonary system. Advanced critical care monitoring system. Stress testing. Prerequisite: Rt 030; Corequisite: Rt 130.

**Rt 130 Cardiopulmonary
Technology** 2 Crs.

Theory and equipment used for basic and advanced spirometry. Diagnostic techniques involving invasive and non-invasive procedures are explained, including stress testing, radiographic, and nuclear medicine techniques. This course helps expand the student's knowledge of pulmonary physiology and pathophysiology. Instruction is integrated with pulmonary laboratory experience. Prerequisite: Rt 030; Corequisite: Rt 120.

**Rt 140 Cardiopulmonary
Rehabilitation and Home Care** 2 Crs.

The study of current concepts in the rehabilitation of patients with chronic obstructive pulmonary disease and other chronic pulmonary disorders. Review of therapy and equipment designed specifically for use outside the hospital setting. Patient education, breathing retraining, exercise,

and improving activities of daily living are emphasized.

Sociology Courses

So 101 Principles of Sociology 3 Crs.

An introduction to the study of human behavior as shaped by the contexts of individuals, groups, society, and culture. The basic terminology, concepts, theories, and methods of sociology as an empirical science will be covered.

So 121 Social Problems 3 Crs.

The sociology of human crises. Social disorganization and its symptoms. This course seeks to understand the human dimension in the cause and effect patterns within which crises develop and looks for solutions to them.

So 185 Social Stratification 3 Crs.

Institutionalized social inequality in wealth, prestige, and power. Theoretical explanations of such inequalities and factual information on systems of stratification. Analysis of stratification in the U.S.A. Prerequisite: So 101.

So 201 Women in the Professions 3 Crs.

This course analyzes the status of professional women in different professions. Institutionalized forms of sexism rampant in some professions are studied emphasizing possible solutions and their effects on existing social values. Prerequisite: So 101.

So 203 Human Sexuality 3 Crs.

The sociology and anthropology of sexual identity and behavior.

**So 206 Society and
Economic Issues** 3 Crs.

This course is designed for anyone interested in understanding the social impact of the economics of our times and the policy issues which affect us and our communi-

ties. The following topics are discussed with an emphasis on their social dimension: inflation; federal, individual, and corporate taxation; the negative income tax; economic policies regarding pollution; economic aspects of the health care industry, and education.

**So 215 Social Psychology:
Macroprocesses** 3 Crs.

Emphasis in this course is on the social and cultural factors which influence individual behavior in group processes. Socialization, social interaction, social influence and conformity, decision making, attitudes, opinions, and other related topics are covered. Prerequisite: So 101.

So 219 Social Change 3 Crs.

Consideration of various theories and models of social-culture change: cultural diffusion, social movements, conflict, social evolution, and planned change. Strategies and tactics for changing social systems. Prerequisite: So 101.

So 228 The Corporate Society 3 Crs.

A study of the relationship between the modern business corporation, the cultural system, and the individual. Topics will include the corporation and the business world as a social system, the culture of the corporate society, and the effects of corporate work on the individual's personality, family, leisure time, and personal relationships. Prerequisite: So 101.

**So 231 Marriage and
the Family** 3 Crs.

Family as a major social institution. Changing role, structure, and functions of the modern family. Rural-urban, social class, and ethnic differences in family organization. Marriage and family as a de-

veloping system of inter-personal relationships. Prerequisite: So 101.

**So 238 Sociology of Health and
Health Care** 3 Crs.

This course is an introduction to the sociology of health. It covers the relationship of illness to class, race, sex, age, and culture; the structure and dynamics of America's health-delivery system or the institutionalization of health care and mental health care; and looks into the consequences of government involvement in health care with special attention to Medicare, Medicaid, and National Health Insurance. Prerequisite: So 101.

So 242 Urban Sociology 3 Crs.

Analysis of the structures and processes that make up the form of human settlement known as the "urban community." From town, to city, to metropolis, to megalopolis, to ecumenopolis. Changes in social scale, in social organization, and in culture which accompany increasing size, density, and heterogeneity of urban communities. Prerequisite: So 101.

So 243 Political Sociology 3 Crs.

Analysis of the social bases of political behavior and the impact of social structure on political organization. Discussion of empirical studies, of voting patterns, decision making, and community power with a special attention to the factors determining the amount of power exercised in a society and the degree of its concentration in formal political structures. Prerequisite: So 101.

So 260 American Minorities 3 Crs.

A sociological analysis of minority status and its impact on the life chances of minority group members. The course covers the whole spectrum of human diversity as reflected in the minority status of racial,

ethnic, gender, age, and deviant groups. Emphasis is given to the experiences and relationships of these groups with the dominant culture; cultural pluralism is explored as an alternative. Prerequisite: So 101.

So 271 Criminology 3 Crs.

The nature and extent of crime, theories of causation, types of crimes, and analysis of the effort to cope with criminal behavior. Prerequisite: So 101.

So 275 Deviance and Social Control 3 Crs.

Theory and research on deviant behavior with emphasis on sociological approaches to causality, societal reaction, and the social-psychology of the deviant. Function and dysfunction of deviant behavior for society and the individual. Methods and institutions of social control. Prerequisite: So 101.

So 276 Juvenile Delinquency 3 Crs.

Sociological analysis of delinquent behavior. Legal and sociological theories of causation. Prerequisite: So 101.

So 281 Demography 3 Crs.

The analysis of population: size, composition, and distribution in geographical space. Population change through fertility, morality, migration, and social mobility. Planning for and projecting changes in population. Prerequisite: So 101.

So 286 The Sociology of Education 3 Crs.

Education as a social institution: problems, stresses, and tensions in relation to minority situations; education in the urban scene and within the American culture. Critique of policies, consideration of potentials and possibilities. Prerequisite: So 101.

So 289 Delinquency Prevention 3 Crs.

An analysis of society's attempts to prevent and modify delinquent behavior. The

purpose of the course is to examine the assumptions, operations, and effectiveness of programs dealing with delinquency. Prerequisite: So 276 or permission of the instructor.

So 291 Methods of Social Research I 3 Crs.

Covers the scientific method, exploratory, descriptive, experimental, evaluation, and survey research. Also, measurement, data collection and analysis, sampling, coding, computer processing, and research reports. Prerequisites: So 101 and junior standing.

So 297 Sociology of Religion 3 Crs.

Origin and development of religious institutions. A sociological analysis of religion and its social significance. Prerequisite: So 101.

So 303 Sociological Theories 3 Crs.

Origins and development of sociological thought in Europe and in America in terms of its recurrent problems, its basic concepts, and its relation to contemporary sociological theory. The classical sociological theories are covered. Prerequisites: So 101 and junior standing.

So 319 Collective Behavior and Social Movements 3 Crs.

Sociological analysis of social panic, crazes and fads, mobs, crowds, social movements, revolutions, and other forms of collective behavior. Prerequisite: So 101.

So 321 Contemporary Sociological Thought 3 Crs.

This is a seminar designed to introduce students to four of the dominant contemporary sociological perspectives: functionalism, conflict theory, interactionism, and exchange theory. The "ethnomethodologi-

cal alternative'' to these dominant theoretical perspectives is also covered.

So 328 Sociology of Complex Organization 3 Crs.

Analysis of formal bureaucratic organizations, theory and research on structures and processes of large-scale organizations in western society. Emphasis is also given to the analysis of organizational change. Prerequisites: So 101 and a minimum of 6 or more credit hours in sociology.

So 330 Aging in Contemporary America 3 Crs.

This course addresses itself to the relationship of the aged to the major economic and political systems in America. Sociological focus will be upon the employment sector, the legal system, the government, political lobbies, cities, the health establishment, and community organizations. A critique of the present programs designed for the aged is a key topic. Prerequisites: So 101 and Junior standing.

So 390 Social Statistics 3 Crs.

Introduction to the application of basic statistical techniques in the analysis of sociological data. Strongly recommended for those planning graduate work in sociology. This course is not accepted in lieu of Mt 005. Prerequisites: Mt 002, So 101, and Junior standing.

So 391 Methods of Social Research II 3 Crs.

This course continues where So 291 ends so as to complete the curriculum content specified under So 291. The two courses should be taken back-to-back as the arrangement of the components of the curriculum will vary from year-to-year to allow

for different projects and applications. Prerequisites: So 291 and junior standing.

So 393 Seminar in Corporate Sociology 6 Crs.

Independent research projects will be carried out by each student in a corporate setting and under the guidance of the course instructor. Class time will be spent in the discussion of progress and problems in the research process. The stress will be on the applied use of sociological methods and knowledge in a corporate setting and the use of sociological training in a corporate career. Corporate setting will be established by the course instructor. Prerequisites: Senior standing and permission of the instructor.

So 395 Internship in Social Research 3 Crs.

Participation in social research conducted and directed by faculty of the department. Prerequisites: So 391 and senior standing.

So 397 Senior Seminar in Sociology 3 Crs.

Selected topics in sociology. Students expected to present well-prepared papers or oral presentations in class. Prerequisites: Permission of the instructor and senior standing.

So 399 Independent Study 3 Crs.

Credits and work by special arrangement with department faculty.

Social Work Courses

Sw 101 Introduction to Social Work 3 Crs.

An introduction to social work as a problem-solving response to social problems, an understanding of the institutional context of social work practice, and an orientation to the values, knowledge and skills which underline this practice. It is the first

required course in the major but is open to all students.

Sw 110 Human Relations 3 Crs.

This course is designed to provide the theory and experiences necessary to develop effective interpersonal skills. The material will be useful for students in all fields of study who are interested in enhancing their interactional techniques for personal and professional use. Special emphasis will be placed on such skills as listening, confrontation, problem-solving, and conflict management. Heightened self-awareness and the capacity to help others will be stressed.

Sw 130 Issues and Problems in the Life Cycle of the Family 3 Crs.

The purpose of this course is to provide students with an understanding of the family as a primary social system in our society. Students will examine the process of family development over its life-span and will explore the problems and challenges at each stage of development. Interactional patterns between parents and children, and techniques of family problem-solving will also be covered in this course.

Sw 131 Meeting the Needs of the Elderly 3 Crs.

Explores the problems of older adults in America and how their needs can be met within the family and social service system. Topics include biological, psychological, and social problems; specific needs such as health, mental health, financial security, and housing; special needs of minority, ethnic, women, and rural elderly; and the resources for addressing such needs.

Sw 265 Social Welfare as a Social Institution 3 Crs.

Examines the social welfare institution and the impact of socio-economic and political

forces on social welfare policies and programs as they respond to social problems. Emphasis is placed on the organizational context of the social service delivery system, self-help, knowledge of social welfare resources, the network of social agencies, and the contribution of social work as a profession. Prerequisites: Junior standing, Sw 101, or permission of instructor.

Sw 266 Social Welfare Policy and Services 3 Crs.

Examines social problems in the United States and analyzes the impact of policies and policy formulation on people, including an awareness of the differential impact on the various socio-economic classes, the ethnic, social, religious, age, and sex groups in the population. Analyzes program and practice inadequacies and applies problem-solving methods to the identification of feasible policy reform options. Prerequisites: Junior standing, Sw 265, So 206, and Po 213.

Sw 267 Human Behavior and the Social Environment I 3 Crs.

An introduction to the development of personality structure as an adaptive mechanism which emerges in the process of interchange between the human organism and its environment. Emphasis on the stages of the life cycle, the psychological, socio-economic, and cultural influences on development; understanding of human diversity; and identification and assessment of situations in which people need help. Prerequisites: Junior standing, Bi 101, Ps 101, and So 101.

Sw 268 Human Behavior and the Social Environment II 3 Crs.

Study of human diversity and its development through interaction with social systems. Focus upon family, group, community, and organizational systems and their

impact upon human development and behavior through interaction with one's environment. Emphasis upon assessment of individuals, groups, families, communities, and organizations. Exploration of the resources and problems in social systems and their influences on the individual. Prerequisite: Sw 267.

Sw 275 Social Work Practice I 3 Crs.

An introduction to the generic model of social work practice designed to provide knowledge of social work practice components, a structural analysis of its purposes, functions, values, and task/skill components. Using systems theory, social work practice is analyzed as a planned change and problem solving process. Data collection and analysis, problem assessment, goal setting, and other skills are taught. Prerequisites: Junior standing and Sw 101. Corequisite: Sw 267.

Sw 278 Junior Field Practicum 4 Crs.

Intermediate Social Work majors (Juniors) are assigned two days per week in a human service agency where field instructors offer professional supervision. The Junior Practicum is designed to help students learn how to enter a social agency as a professional social worker making contact with clients, and linking these clients with resources within and outside the agency. Prerequisite: Departmental evaluation for admission to intermediate major status. Corequisites: Sw 268 and Sw 279.

Sw 279 Junior Field Practicum Seminar 2 Crs.

The Junior Field Practicum Seminar is designed to facilitate, reinforce, and support learning in the Practicum. It will guide the student in the process of directing his/her own learning and assist in the early profes-

sional socialization of the student. Corequisite: Sw 278.

Sw 335 Child Welfare Services 3 Crs.

Examination of the full range of child welfare services in America designed to meet the needs of children and laws which protect the rights of children in our society. Students explore the subject of child abuse/neglect; develop practice skills; and study issues of permanency planning, attachment and separation, client resistance, burn-out, and use of legal authority. Prerequisite: Sw 101 or permission of the instructor.

Sw 375 Social Work Practice II 3 Crs.

This second semester continues with the examination of modalities which can be used in interventions with individuals, families, groups, communities, organizations, and service delivery systems which began in Sw 275. Emphasis is placed on the study and acquisition of practice, knowledge, and skills necessary to implement planned change. Prerequisite: Sw 275. Corequisites: Sw 378 and Sw 379.

Sw 378-379 Senior Field Practicum 3 Crs.

The Senior Field Practicum takes place over the entire Senior year and assigns Senior students for two days per week in a human service agency where a field instructor offers individualized professional supervision. It provides experiential learning to help students integrate theory with practice and to develop appropriate practice skills and knowledge, along with professional identification, values, and attitudes. Prerequisite: Departmental

evaluation for admission to degree candidacy status. Corequisites: Sw 380 and 381.

Sw 380-381 Senior Field Practicum Seminar 4 Crs.

These two seminars are taken also over a period of two semesters concurrently with Sw 378-379. The Senior Practicum Seminars facilitate, reinforce, and support learning in the practicum. Emphasis is on the integration of theory with practice, on understanding applications of theory from the entire curriculum to practice. These seminars help students assume professional responsibility for their own practice. Corequisites: Sw 378 and Sw 379.

Sw 390 Research Methods for Social Work 3 Crs.

Development of research skills for social work practice. Emphasis on familiarity with the language for research, understanding logic and the conceptual tools of scientific inquiry, strategies of research designs, knowledge of evaluative research methods and social indicators, appreciation of the relationship between research and theory to problem-solving in social work, and the ability to read and interpret research articles. Prerequisite: Senior standing. Corequisites: Sw 380 and Sw 381.

College of Business and Professional Studies

Accounting Courses

Ac 101-102 Principles of Accounting I, II 6 Crs.

Required as the beginning course for all accounting and business majors. Ac 101 covers financial accounting from transactions analysis through accounting for partnerships. Ac 102 covers stockholders eq-

uity and managerial accounting from break-even analysis to standard costs and various forms of statement accounting and forecasting. Both courses provide intense, rigorous preparation for subsequent course work. Prerequisites: 27 credit hours, QPA of 2.0, and Mt 008.

Ac 201-202 Intermediate Accounting I, II 6 Crs.

Further development of accounting concepts, placing more emphasis on the theoretical aspects involved. Primarily intended for the accounting major, this is also a highly useful course for business administration majors. Note: Credit for Ac 201 can be gained without taking Ac 202. Prerequisite: Ac 101 and Ac 102.

Ac 213 Accounting: The Key to Managerial Control 3 Crs.

A study of management's use of accounting to provide information for planning and controlling routine operations, long-range planning, inventory valuation, and nonroutine decision making. (For non-accounting majors only).

Ac 301-302 Advanced Accounting I, II 6 Crs.

This course covers partnerships, installment sales and contracts, estates and trusts, governmental and branch accounting. The second semester covers business combinations, consolidations, and consolidated financial statements on both the purchase and pooling of interest bases. Prerequisite: Ac 202.

Ac 313 Cost Accounting 3 Crs.

Covers methods of accounting for and reporting the costs of materials, labor, and overhead in job and process costs systems. Includes intensive work in joint and by-product costing as well as on standard

costs and variance analysis. Prerequisite: Ac 102.

Ac 314 Managerial Accounting 3 Crs.

Covers analysis of market costs and cost volume-profit situations, studies variable costing and methods of reporting, use of cost information in pricing decisions, capital expenditure analysis, budgeting and cash management, transfer-pricing, and related topics. Prerequisite: Ac 313.

Ac 321-322 Auditing I, II 6 Crs.

A study of the principles of audit practices and the procedures used by independent public accountants in examining accounting records and statements. Also, advanced training in auditing, utilizing case studies, publications of the American Institute of Certified Public Accountants, preparation of audit reports, and other audit materials. Prerequisites: Ac 202 and Bu 241, Cs 009.

Ac 331 Accounting Information Systems 3 Crs.

In this course the student analyzes the components of accounting systems in terms of the information needs of management. The emphasis is placed on a systems approach, i.e., highlighting how the parts of a system work together. The use of the computer is included to demonstrate the concepts taught in the course. Prerequisites: Ac 302, Ac 314, Cs 009.

Ac 383-384 Federal Taxes I, II 6 Crs.

A survey of income tax accounting as it applies to the individual. This course covers the more important concepts involved in preparing federal income tax returns, a survey of gift and estate taxes, reorganizations, and other topics. Prerequisites: Ac 102 and Senior standing, or permission of the instructor.

Ac 392 Current Topics in Accounting 3 Crs.

This seminar class deals with recent issues in the accounting profession. Pronouncements issued by the Financial Accounting Standards Board, new tax bills, and laws will be among the topics covered.

Prerequisite: Senior standing or permission of the instructor.

Business Courses

Bu 021 Business English 3 Crs.

This course is designed to review and reinforce basic English principles. Emphasis is on the study of grammar. Word usage, punctuation, capitalization, and vocabulary building are covered for improved writing skills. (English Placement/Proficiency test required).

Bu 103 Business: Its Nature and Environment 3 Crs.

The purpose of this course is to give a clear overview of the area of activity known as business. The management point of view is emphasized but the rights of the individual as employee, citizen, and consumer are also discussed. May be waived for students who provide substantiation of acceptable practical business experience.

Bu/Hi 128 Business: The History of American Business Enterprise 3 Crs.

An examination of the growth and development of business in America from early colonial times to present. Topics include the role of the entrepreneur, the business specialization, the rise of the corporate form and of "big" business, innovations in management marketing, and the interplay of business enterprise and other as-

pects of American society. Qualifies for Area B.1 History credit.

Bu 201 Organization Management 3 Crs.

An interdisciplinary study of managerial decision making utilizing behavioral and quantitative approaches. Included among the topics are decision making, motivation and behavior, leadership, group behavior, organizational change, planning, control, and allocation resources. Lectures and case studies. Prerequisite: Bu 103 or permission of department.

Bu 202 Organizational Behavior 3 Crs.

This course examines the research underlying current theories of organization. Individual, group, intergroup, and other human behavior, and application of social science research to administration will be covered. Prerequisite: Bu 201.

Bu 210 Office Management for the Administrative Assistant 3 Crs.

This course covers fundamental supervisory practices and analyzes the most important skills required in performing the supervisory/management function. The basic considerations of leadership, motivation, communications, and organizing administrative office operations will be explored. The managerial process will be examined including personnel practices, budget planning and control, and information and records management.

Bu/Ca 221 Business Communications 3 Crs.

A project-oriented course dealing with individual student efforts in all facets of verbal, written, and graphic communication. Assignments required in areas such as business correspondence, executive summary, verbal presentations, and charts. Work assignments are supplemented with

audio aids and lectures dealing with grammar and vocabulary development. Prerequisites: Grade of C or better in En 010, En 011, and Ca 021.

Bu 231-232 Business Law I, II 6 Crs.

A general survey of law, including the legal system, courts and court procedures, the law of contract, agency, partnership, corporations, sales and employment. Prerequisite: Sophomore standing.

Bu 241 Business Statistics 3 Crs.

Introductory course in statistics for students in business administration. Problem-oriented course discussing statistics as it is used, frequency distribution, probability sampling, hypothesis testing, correlation analysis, linear regression analysis, and graphic presentation of statistical material. Prerequisites: Grade of C or better in Mt 008 and Mt 014.

Bu/Ph 257 Business Ethics 3 Crs.

An investigation of the philosophical questions which arise in normal business situations. The case-study method will be used to examine such questions as nepotism, competition, marketing, career advancement, and product research. There will be consideration given to the question of whether a special ethic should apply to business situations.

Bu 278 Principles of International Business 3 Crs.

Analysis of international trade activity with special emphasis in the business environment. This entails concepts and constraints associated with developing intercultural managerial effectiveness, recent patterns of world trade, human environment, trade theory, government influence, foreign exchange, international payments, financial markets, the international company, and

East-West business. Prerequisite: Bu 201 or permission of the department.

Bu 301 Business Policy 3 Crs.

Formulation and administration of policy, integration of the various specialties of business, development of overall management viewpoint. Prerequisite: Senior standing or permission of the instructor.

**Bu 373 Entrepreneurship:
Starting Your Own Business** 3 Crs.

Most individuals sometimes feel the urge to quit their job and start a business of their own. However, being a well-qualified tradesman, a skilled craftsman, or an expert professional does not necessarily equip one to be "his own boss." This course gives the facts needed for managing an enterprise skillfully and profitably.

Bu 392 Business Seminar 3 Crs.

A general seminar requiring research on a personal project, oral progress reports to the seminar group, and a formal written report. Prerequisite: Senior standing and permission of the instructor.

Bu 399 Independent Study 1-3 Crs.

Students work on a special topic under the direction of an instructor. Permission of the instructor and department chairperson will be granted to qualified Business majors on the basis of a written proposal from the student.

Economics Courses

Ec 101 Introduction to Economics 3 Crs.

A one-semester introductory course for non-business majors designed to give students a foundation in the workings of our economy. Provides description and analysis of major concepts and issues of macroeconomics and microeconomics. Examines key institutions including the

Federal Reserve System, corporations, and labor unions.

**Ec 201 Principles of
Economics I** 3 Crs.

Introduction to basic macroeconomics principles. Topics include consumption, saving, investment, income and employment, business fluctuations, money and banking, fiscal and monetary policies. Prerequisite: Mt 002 or Mt 008.

**Ec 202 Principles of
Economics II** 3 Crs.

Introduction to basic microeconomics principles. Topics include supply and demand, cost, profit, wages, market imperfections, and anti-trust. Other topics include poverty and discrimination, environment, and energy. Prerequisite: Mt 002 or Mt 008.

**Ec 212 Statistics for
Business and Economics** 3 Crs.

This introductory course in statistics for students in business administration is a problem-oriented course covering topics such as frequency distribution, probability, sampling, hypotheses testing, correlation analysis, linear regression analysis, and graphic presentation of statistical material. Prerequisites: Grade of "C" or better in Mt 001 and Mt 002 or Mt 008.

**Ec 221 Intermediate
Microeconomic Analysis** 3 Crs.

An analysis of consumers' and firms' decisions and their role in the determination of prices and output of goods, the allocation of resources, and the distribution of income. Topics include theory of demand, pricing models, production theory, cost analysis, market structure, factor markets, and externalities. Prerequisite: Ec 202.

**Ec 243 U.S. Economic
and Financial History** 3 Crs.

Survey of the development of the United

States economy from the Colonial period to the present. Topics include national income and its distribution, money and banking, capital accumulation, land and population, agriculture, manufacturing, transportation and commerce, labor unions, business enterprise, and the performance of the economy.

**Ec 301 Intermediate
Macroeconomic Analysis 3 Crs.**

A course in aggregate economic analysis. Examines theories of the determination of national income and employment. Policies associated with these theories are critically examined. Prerequisite: Ec 201.

**Ec 302 Money and
Financial Institutions 3 Crs.**

A study of the operations of commercial banks and other financial institutions. Examines the significance of money, credit, and interest rates. Analyzes the impact of monetary and fiscal policies on the economy. Prerequisites: Ec 201 and Ec 202.

Ec 313 Managerial Economics 3 Crs.

An analysis of the structure of industry, business firms, and the application of analytical tools of economics to decision making. Topics include the determination of relevant costs for decisions within the business firm, pricing and capital budgeting problems, forecasting business conditions, risk and uncertainty, union policies and cases involving actual managerial situations which require the use of economic analysis. Prerequisites: Ec 202 and Bu 241.

Ec 322 International Economics 3 Crs.

An examination of international trade theory and policy, balance of payment mechanism, and international monetary system. Special emphasis is given to current problems of trade restrictions and tariffs, gold and international flow of funds, and the

role of international reserves. Prerequisites: Ec 201 and Ec 202.

**Ec 341 History of
Economic Thought 3 Crs.**

This course traces the development of economic theory and the major contributions of the various schools of economic thought from Adam Smith through contemporary theory.

**Ec 342 European
Economic Development 3 Crs.**

The development of the European economy from the Middle Ages to the present. Topics covered include agriculture, commerce, industry, money and banking, business fluctuations, economic integration, and foreign investment.

**Ec 343 Economic Development
of the Third World 3 Crs.**

Examines growth theories and their application to Third World countries. Analyzes problems of development in areas such as: population, agriculture, industry, and trade. Specific nations are studied. Prerequisites: Ec 201 and Ec 202.

**Ec 344 Comparative
Economic Systems 3 Crs.**

A study of the various systems by which societies organize their economic activities. Countries covered include: Soviet Union, China, Japan, England, Sweden, and Yugoslavia.

Ec 372 Urban Economics 3 Crs.

Designed to provide the student with an understanding of the organization and form of such urban problems as transportation, housing, poverty, centralization and decentralization of government, taxation as a means of financing urban public services, and problems of the environment. Pre-

requisites: Ec 202 or Ec 101 for non-business majors.

Ec 373 Public Finance 3 Crs.

The role of government in relation to national income allocation and income distribution. Principles guiding the allocation of resources between the private and public sectors, expenditure and theory, including cost-benefit analysis. The impact of taxes on the distribution of income. Expenditure programs, their nature, importance, purpose, and economic effects. Prerequisites: Ec 201 and Ec 202.

Ec 381 Labor Economics 3 Crs.

Covers union, labor legislation, dynamics of labor supply, labor mobility, productivity and the effects of automation, wage structure and determination, and the problems of unemployment. Prerequisite: Ec 202.

Ec 401 Introduction to Econometrics 3 Crs.

The use of basic mathematical concepts to formulate models as a means for understanding and solving economic problems. Examine various statistical methods of estimating and testing economic models. Prerequisites: Ec 201, Ec 202, and Ec 212 or Bu 241.

Ec 402 Current Issues in Economics 3 Crs.

Examines major contemporary economic issues open to both prospective majors and non-majors. The purpose of the course is to demonstrate how economists deal with the difficult problems of the day. Prerequisites: Ec 201 and Ec 202.

Finance Courses

Fn 215 Financial Management 3 Crs.

This course is designed to provide the student with an introduction to the field of

finance. Principal emphasis is given to financial statements and ratio analysis, working capital management, capital budgeting, firm's cost of capital, and basic portfolio theory. Prerequisite: Ac 102 or Ac 104.

Fn 241 Financial Markets: Structure and Performance 3 Crs.

Analysis of major individual, money, and capital markets, including government securities markets and various stock and bond markets. Topics include: the determination of the level and structure of interest rates, sources and uses of funds, the influence of the Federal Reserve on financial markets, the regulatory structure, and interrelations among these markets. Prerequisites: Ec 201 and Fn 215.

Fn 251 Corporate Finance 3 Crs.

Emphasis will be put on corporate long-term financial policies. Covers valuation of corporate securities, capital structure, dividend policy, analysis of overall cost of capital of the firm, mergers, and acquisitions. Prerequisite: Fn 215.

Fn 271 Risk and Insurance 3 Crs.

This course is concerned with the management of risks and the use of insurance in personal and business situations. Areas to be covered include types of coverage and binding contract, underlying legal principles, risk measurement and rate making, underwriting and re-insurance, loss prevention and control, organization of the insurance industry, and government regulation. Prerequisite: Fn 215.

Fn 314 Financial Analysis 3 Crs.

Develops the ability of the student to analyze financial statements in order to determine both asset value and earning capacity of the public corporation's securities. This requires an understanding of the positive

and negative effects of operating and financial leverage as well as ratio analysis as it concerns both the capitalization, stock, and bond markets. Proof of the student's ability lies in the preparation of an analysis of the annual report of a major publicly-held corporation. Prerequisite: Ac 202 or Fn 215.

Fn 315 Investments 3 Crs.

This course is designed to introduce the student to the different types of securities investments available to the institutional and private investor. The student will learn to evaluate individual securities by applying risk analysis as well as fundamental and technical research. Topics include: common and preferred stock investments, bond investments, commodities and financial futures, mutual funds, real estate, and pension funds. Prerequisite: Fn 215.

Fn 316 International Financial Management 3 Crs.

Applications of principles of financial management to the decisions of corporations with international operations. Topics include: sources and uses of funds in multinational operations, impact of different exchange rates, taxation systems and inflation rates on financial decisions, project evaluation, and interaction among various national financial markets. Prerequisites: Fn 215, Ec 201, and Ec 202.

Fn 317 Portfolio Management 3 Crs.

Examines price behavior of securities and techniques of securities, portfolio structuring, and stock selection for both institutions and personal portfolios. Topics include an introduction to modern portfolio theory, capital pricing and valuation tech-

niques, and the theory of the efficient market. Prerequisite: Fn 315.

Fn 318 Current Problems in Finance 3 Crs.

Seminar on special current topics in finance. Open to seniors majoring in finance and to seniors majoring in economics, business, and accounting who obtain permission of the department. Prerequisite: Fn 215 or departmental permission.

Human Resource Courses

Hr 207 Management of Human Resources 3 Crs.

Major attention is devoted to the basic personnel processes that are involved in the procurement, development, and maintenance of the organizational human resource, selection, training, motivation, remuneration, and relations with unions. Prerequisite: Bu 201.

Hr 208 Compensation of Human Resources 3 Crs.

Principles and problems in the administration of wages, salaries, and benefits. Topics include: job analysis, job evaluation, salary surveys, creating the wage structure, executive compensation, benefits administration, program maintenance and control. Provides actual experience in development of compensation programs. Prerequisite: Hr 207.

Hr 209 Development of Human Resources 3 Crs.

Deals with the optimization of human resources by facilitating change in people, in technologies, and in organizational processes and structures. Emphasis on human resource planning, evaluation, training, management development, "systems" and

“by objectives” approaches to planned change. Prerequisite: Hr 207.

**Hr 233 Human Resources:
The Legal Environment** 3 Crs.

Deals with the legislative foundations, legal processes, and institutions that regulate the employment of human resources in institutions. Reviews such legislation as the Occupational Safety and Health Act, the Federal Civil Rights Act, and agencies such as the EEOC and the OFCCP. Prerequisite: Hr 207.

**Hr/Lw 236 Employer/
Employee Law** 3 Crs.

Course is designed to provide an understanding of certain legal aspects that pertain to employment of personnel/human resources. Course includes an introduction to legislation and the regulatory process, equal employment opportunity, Working Persons' Compensation, job health, and safety. Emphasis will be placed on compensation and benefit plans. Instruction will be through case study and analysis of pre-prepared employment documents.

Hr 276 Job Evaluation 3 Crs.

Examines in detail the techniques and rationale of determining job value to the organization in terms of relative job worth within the firm and equitable relationships of pay for similar responsibilities in other organizations. Emphasizes the procedures for analyzing and describing jobs, evaluating job worth, and techniques for developing wage structures.

Hr 307 Collective Bargaining 3 Crs.

A study of the development and methods of organized groups in industry with reference to the settlement of labor disputes. An economic and legal analysis of labor union and employer association activities, arbitration, mediation and conciliation,

collective bargaining, trade agreements, strikes and boycotts, lockouts, company union, employee representation, and injunctions. Prerequisite: Hr 207.

**Hr 308 Problems in Contemporary
Collective Bargaining** 3 Crs.

Collective bargaining as a process has been under intense critical fire for some time. Few problem areas in collective bargaining yield final solutions. The most critical issues in labor relations are necessarily controversial. An important obligation is to present these areas as well as the fundamentals of collective bargaining to the student. Prerequisite: Hr 207.

**Hr 309 Problems in Managing
Human Resources** 3 Crs.

Case study and discussion of advanced problems in industrial relations and human resource management. Particular emphasis on the problems of the senior personnel executive. Prerequisite: Permission of instructor.

**Hr 310 Seminar in Human
Resources Management** 3 Crs.

Permits advanced students to deal individually or in small groups with guided, self-study projects suited to their personal needs and interests. Research into recent developments, innovations, and issues in personnel administration. Prerequisite: Permission of instructor.

Legal Assistant Courses

Lw 101 Criminal Law and Torts 3 Crs.

To give the student a survey of general principles of criminal law, defenses, court procedures and jurisdiction, torts, the nature of a tort, who may be liable, the extent of liability, and defenses. Emphasis is placed upon the practical application of this knowledge for the paralegal. This

course must be taken in conjunction with Lw 121 Legal Research I.

Lw 102 Contracts and Uniform Commercial Code 3 Crs.

To give the student a general survey of contract law, definitions and classifications of contracts, capacity of parties, legal effect of offer, acceptance, and consideration. Uniform Commercial Code—definition; Article 2 of the Code—sales; Article 3—commercial paper; Article 4—bank deposits and collections (negotiable instruments); and Article 9—secured transactions. This course must be taken in conjunction with Lw 122, Legal Research II.

Lw 121 Legal Research I 3 Crs.

An introduction to the study of law which acquaints the student with analysis and synthesis of cases and other legal materials. The student is taught to use various methods of legal research, which include: indexes, digests, Shepard's Citations, encyclopedias, and the West key number system. Each student is required to submit a written abstract and legal memoranda on problems involving questions of substantive law procedure and legal ethics. This course must be taken in conjunction with Lw 101, Criminal Law and Torts.

Lw 122 Legal Research II/ Writing 3 Crs.

To give the paralegal a working knowledge of the Connecticut Rules of Practice and Procedure. Heavy emphasis is placed on learning to draft pleadings, motions, memoranda of law, and appellate briefs. In addition, the code of Professional Responsibility is examined through class discussion and hypothetical examples. This course

must be taken in conjunction with Lw 102, Contracts and U.C.C.

Lw 161 Legal Office Procedures 3 Crs.

A study of the work flow in a law office. Responsibilities in handling written communications and maintaining files, preparation of court documents, law office accounting, billing, and forms. Discussion of legal ethics. An internship may be taken as an alternative with special permission of the Program Director.

Lw 201 Business Organizations and Domestic Relations 3 Crs.

A general overview of the law of business organizations: formation, operation, and dissolution of partnerships, corporations, and limited partnerships with emphasis on practical application of this body of knowledge in the law office. The principles of agency law are also covered. Domestic relations: marriage, dissolution of marriage, separation agreements, custody, alimony, and child support are studied.

Lw 202 Property and Conveyancing 3 Crs.

An introduction to the law of real and personal property, nature of property, possession and its consequences, acquisition of property, and transfer. A study of practical problems involving conveyances from the drafting of purchase and sale agreements to the passing of papers, mechanics of the title examination, mortgages, and foreclosure.

Lw 203 Estates, Probate, and Taxation 3 Crs.

Students will be introduced to the basic concepts of estates and trust law, with emphasis upon creation and administration of same. Definitions, consideration of problems relative to the disposition of property,

and the impact of federal income, inheritance, estate and gift tax will be discussed.

Lw/Po 213 Lobbying and the Legislative Process 3 Crs.

This course focuses on various factors which influence legislative decision-making, and the methods of lobbyists and public interest groups in intervening successfully in the legislative process. Also covered are ethical and legal boundaries for lobbying activity and the development of competency in research involved with legislative intervention by lobbyists and public interest groups.

Lw/Po 216 Congress and the Legislative Process 3 Crs.

An examination of Congress, its constitutional powers, historical development, internal processes and culture, as well as external influences—executive branch, interest groups, public opinion, and elections.

Lw 234/Po 351 Constitutional Law 3 Crs.

An inquiry into American constitutional law through the study of outstanding cases. Attention is given to the development of constitutional doctrines and the processes of legal reasoning.

Lw/Cj 235 Arrest—Search—Seizure 3 Crs.

An in-depth discussion of the arrest powers held by various criminal justice personnel and of the major principles of search and seizure.

Lw/Hr 236 Employer/Employee Law 3 Crs.

Course designed to provide an understanding of certain legal aspects that pertain to employment of personnel/human resources. Course includes an introduction to legislation and the regulatory process, equal em-

ployment opportunity, Working Persons' Compensation, job health, and safety. Emphasis will be placed on compensation and benefit plans. Instruction will be through case study and analysis of pre-prepared employment documents.

Lw 237/Cj 210 Family Law 3 Crs.

This course will cover the legal entanglements in which people find themselves and the rights of middle and lower income groups. Topics will include support obligations, legal positions of married women, abuse of women and children, legal disability of minors, dissolution of marriage, alimony, support and custody procedures, separation agreements, and adoption. Prerequisites: Lw 101 and Sophomore standing.

Lw 238 Litigation and Civil Procedures 3 Crs.

Students will be introduced to the differences between civil and criminal litigation, courts and their jurisdiction, substantive law, investigation of facts, commencement of law suit and preparation of pleadings and motions, discovery, preservation of facts and preparation for trial, decisions and settlement, post-trial motions and appeals, techniques of legal research, file maintenance, and docket control. Prerequisite: Sophomore standing.

Lw 239/ Cj 211 Women and the Law 3 Crs.

This course will trace the development of sex discrimination as a legal and social phenomenon. The law will be covered in terms of its historical perspective. Emphasis will be placed on the developments of the 1960s and 1970s with respect to constitution law, employment and employee benefits, education, criminal law, family law

and reproductive freedom (contraception, abortion, and sterilization.)

Lw 244 Administrative Law and Procedures 3 Crs.

A survey and study of the following concept in administrative law: judicial review, rules and discretionary rule making, hearings, and informal actions.

Lw 246 Litigation in the Computer Age 3 Crs.

This course will give the student an understanding of the elements of causes of action in civil litigation cases, especially those involving personal injury, medical malpractice, and product liability. In addition, the use of word processors and/or computers to produce the hard copy pleadings and related materials in a quick, accurate, efficient manner from inception of suit to the trial will be discussed.

Lw/Ph 253 Philosophy of Law 3 Crs.

An inquiry into the philosophical foundations of the law in terms of social, political, economic, theological, and ethical considerations. The nature, sources, purposes, and methods of the law. Prerequisite: Ph 101.

Lw/Ph 254 Law and Ethics 3 Crs.

A philosophic inquiry as to the proper role of law in respect to contemporary moral problems, and the limitations such problems impose upon the law.

Lw/Mk 296 Marketing/Consumer Law 3 Crs.

An overview of marketing and consumer law. Discussion of contract law and the law of sales (Article 2 of the Uniform Commercial Code). Other topics include: sales practices, product liability, pricing,

consumer credit, patents, copyrights, and trademarks.

Lw/Po 321 Public Administration 3 Crs.

A survey course of administrative theories and skills for those intending to enter the public sector. Theories of public organizations, their legal and political framework, unions, planning, budgeting, communication, leadership, and other skills. Appropriate for those planning careers in service, non-profit organizations, or government agencies.

Lw/Po 325 Politics, Law, and Judicial Behavior 3 Crs.

The judiciary's role in the American political process is examined. Topics include: the nature of law, political influence in judicial decision making, court organization, judicial recruitment, and the powers and limitations of the judiciary.

Marketing Courses

Mk 261 Principles of Marketing 3 Crs.

The basic course in investigating the components of the marketing mix. The comprehensive managerial approach is employed and cases supplement each area of exploration. Topics covered are customer behavior, product policy, channels of distribution, advertising and promotion, price policy, marketing programs, and the legal aspects of marketing. Prerequisite: Bu 201.

Mk 262 Principles of Advertising 3 Crs.

An analysis of advertising from the managerial viewpoint of its relationship within the marketing mix. Social and economic aspects of advertising, practices and issues, analysis of media, the communications function, creative aspects including art and copy, and measures of effectiveness. Pre-

requisite: Mk 261 or permission of department.

Mk 263 Principles of Retailing and Merchandising 3 Crs.

History and development of the retail function and its relationship to the wholesaler and manufacturer. Store management, the buying function, element of style and fashion, pricing policies, customer relations, store location, and sources of supply. Retail mathematics including markup, markdown, and turn-over. Prerequisite: Mk 261 or permission of department.

Mk 265 Industrial Marketing 3 Crs.

A study of the special problems involved in the marketing of industrial products. Covers the following aspect of the industrial marketing program: organization, advertising and sales promotion, market research, product pricing, budgets and controls, and international marketing. Prerequisite: Mk 261.

Mk 286 Consumer Motivation 3 Crs.

Explores various fields of knowledge necessary to understand marketing behavior. Materials from psychology, sociology, cultural anthropology, and history are used in conjunction with marketing problems. The consumer is examined in terms of both individual and group buying behavior patterns; his process of arriving at buying decisions is appraised at both the retail and non-retail levels. Prerequisite: Mk 261.

Mk/Lw 296 Marketing/Consumer Law 3 Crs.

An overview of marketing and consumer law. Discussion of contract law and the law of sales (Article 2 of The Uniform Commercial Code). Other topics include: sales practices, product liability, pricing,

consumer credit, patents, copyrights, and trademarks.

Mk 361 Marketing Management 3 Crs.

A broad study of the effective management of the marketing mix. The case approach assists in viewing the marketing manager's efforts as coordinated with the contributions of the segments of the firm. Provides understanding of marketing decision-making as being wholly related to the firm's goal, with a view to the larger context of society itself. Prerequisite: Mk 261.

Mk 362 Marketing Research 3 Crs.

Principle areas and methods of marketing research are explored including: mail, diary, panel, phone, and the personal interview. Various types of research are analyzed with stress on the information-gathering function of research as a means to more effective business decision making. Prerequisite: Mk 261.

Mk 364 Sales Management 3 Crs.

Management of sales personnel, sales department organization, selecting, training and compensation plans, sales territories, motivation of sales personnel, quotas, budgets, and measurements of sales effectiveness. Analysis of the selling functions as related to consumer and industrial needs and requirements. Prerequisite: Mk 261.

Mk 365 Contemporary Marketing Problems 3 Crs.

Investigation of current marketing problems with emphasis on decision making in an environment of uncertainty. Analysis of modern marketing philosophy and trends. Course structured in a seminar atmosphere. Research paper required with maximum individual effort and minimum class-

room work. Prerequisite: Six marketing credits or permission of instructor.

Mk 367 Industrial Marketing Research 3 Crs.

Marketing research techniques as utilized and practiced by corporations engaged in the marketing of industrial products or services. Prerequisites: Mk 261 and Bu 241.

Mk 399 Independent Study 1-3 Crs.

Students work on a special topic under the direction of an instructor. Permission of the instructor and departmental chairperson will be granted to qualified Business majors on the basis of a written proposal from the student.

Nursing Courses

Nu 200 Foundations of Professional Nursing 3 Crs.

This course explores the changing role of the nurse in today's health care system. Selected conceptual models for nursing practice, role expectation of the baccalaureate-prepared practitioner, the conceptual framework of this program, and the research process will be discussed. One two-and-a-half hour lecture per week.

Nu 251 Health, Physical Assessment and Planning 5 Crs.

Utilizing the Dimensional-Interaction Model, this course will focus on the process of comprehensive health assessment of individuals, integrating techniques of interviewing, history taking, and physical assessment. Adequate data collection and careful analysis for diagnostic and planning purposes will be stressed. Theories of role behavior, intervention strategies, and evaluation will be explored. Prerequisites: Nu

200 and all Department examinations.

Nu 253 Nursing Diagnosis and Planning 3 Crs.

This course is concerned with the interrelationships between the environment and individuals' biological health; the identification of intrinsic and extrinsic factors that alter and disrupt biological health, their impact, and the health problems that ensue. Mechanisms of pathophysiology will be analyzed to enhance students' assessment activity, diagnostic accuracy, and treatment evaluations. Prerequisites: Nu 200 and all Departmental examinations.

Nu 270 Politics of Health Care 3 Crs.

This course is intended to increase the student's ability to use political action to affect change within health care delivery systems. A study of politics, policy making, and lobbying will enable students to analyze national, state, and community health care systems. Prerequisite: Nu 200.

Nu 272 Nursing Management 3 Crs.

This course offers the registered nurse basic theory and understanding of the management process as it relates to roles of caregiver, leader, client advocate and manager. Topics addressed include organizational analysis, management by objectives, budgeting, standards of care, staffing, power and conflict. Ethical considerations associated with health care financing are also studied.

Nu 275 Working with Groups 3 Crs.

This course is designed to introduce students to the theories and practices used in group counseling. These basic principles

and techniques are experienced, analyzed, and evaluated.

Nu 351 Family and Community Nursing 7 Crs.

This course focuses on the community as a consumer of health services. The functions and programs of public health will serve as an introduction to the past and present role of the nurse. A conceptual approach to the physical and mental health of the aggregates and communities form the basis for applying the nursing process in experiential learning settings. Prerequisite: Nu 251, 253.

Nu 371 Women's Health 3 Crs.

This course will discuss the broad range of health situations and concerns that most women face during their lifetime. Identification will be made of intrinsic and extrinsic factors which effect level of health. Resources which can maximize health potential will be examined and the students will be able to verbalize their personal philosophy of health.

Nu 390 Nursing Research 3 Crs.

This course will prepare students to incorporate research, its purposes, method, and outcomes into the practice of professional nursing. Students will gain an understanding of the fundamentals of the research process including: ethical and legal considerations, critical review of the literature, study design, and how these relate to areas of research needed in nursing. Prerequisites: Nu 200 and Mt 023.

Production Courses

Pd 275 Principles of Production and Inventory Control 3 Crs.

A comprehensive survey of the techniques and rationale of production and inventory control. Covers forecasting, inventory

management, production planning, scheduling, and control. Prerequisite: Bu 241.

Pd 277 Purchasing—Policies, Procedures, and Techniques 3 Crs.

A comprehensive course in the concepts and methodologies of purchasing. Among the topics covered are the management of purchasing personnel, vendor relationships, performance standards, systems contracting, negotiating techniques, and materials management. It is designed to complement Pd 275, Principles of Production and Inventory Control.

Office Administration (Secretarial Science) Courses

Oa 005 Speedwriting 3 Crs.

Designed to introduce the student to an alphabetic shorthand system. Continuous reinforcement placed on theoretical principles, brief forms, abbreviations, phrasing, and language arts skills. Emphasis placed on developing and refining the student's reading and writing skills. Students are encouraged to progress to a minimum dictation speed of 60 wpm for three minutes.

Oa 040 Keyboarding 3 Crs.

(Open to non-secretarial students only). Designed to develop the basic touch keyboarding skill needed for use with computer and word/data entry. Emphasis is placed in acquiring this skill in a minimum amount of time. Students will learn to input alphabetic, numeric, and symbol information into various types of word/information processing equipment. Students become knowledgeable of the basic vocabulary and concepts in keyboarding operations for inputting and retrieving information (information processing).

Oa 041 Typewriting I (Beginning Typewriting) 3 Crs.

The student will develop mastery of the keyboard, obtain knowledge of the manip-

ulative parts of the typewriter, and learn the basic application of centering, tabulations, memorandums, basic business letters, and manuscripts. Proofreading skills will be developed.

Oa 042 Typewriting II
(Intermediate Typewriting) 3 Crs.

Students will further develop skills introduced in Typewriting I with emphasis on building speed, maintaining accuracy, and proofreading. Students will be introduced to formatting advanced business correspondence and the refinement of advanced production applications. Prerequisite: Oa 041 or permission of Chairperson.

Oa 043 Typewriting III
(Advanced Typewriting) 3 Crs.

Designed for students to perform advanced problem-solving production projects while continuing speed development. Production projects will concentrate on technical and statistical typing, typing from handwritten and rough drafts, and specialized vocabulary and office applications. Prerequisite: Oa 042 or permission of Chairperson.

Oa 051 Shorthand I 3 Crs.

Major emphasis is placed on the presentation of Gregg shorthand theory principles. There is continuous drill on word-building principles, brief forms, and phrasing. Reading and writing skills are developed in a symbolic shorthand system. Students progress to a minimum speed of 60 wpm for three minutes.

Oa 052 Dictation and Transcription 3 Crs.

This course will emphasize building speed in taking dictation, strengthening knowledge of theory, developing business vocabulary, and building transcription skills. A major portion of the course

involves the refinement of necessary skills in the transcription of mailable letters. Students will progress to a minimum dictation speed of 80 wpm for three minutes. This course may accommodate students with a background in a variety of shorthand systems. Prerequisites: Oa 005 or Oa 051, and Oa 041.

Oa 053 Refresher Shorthand 3 Crs.

This course offers a review of the fundamentals of the Gregg shorthand system. Emphasis will be placed on developing dictation skills and speed ranges necessary for entry-level employment. Basic elements of transcription will be introduced.

Oa 070 Machine Transcription 3 Crs.

Designed to familiarize the student with the terminology, techniques, skills, and operation of transcription equipment. Emphasis is placed on developing a basic business vocabulary, language art skills, and refining transcription techniques and skills to produce mailable documents. Prerequisite: Oa 041.

Oa 151 Administrative Secretarial Procedures I 3 Crs.

Continued development and reinforcement of shorthand and transcription skills. This course provides for the integration of basic secretarial skills appropriate to the role of the administrative secretary, including the ability to set priorities, exercise initiative, organize tasks, and make decisions—with progression to administrative/managerial responsibilities. Prerequisites: Oa 042, Oa 052, and Oa 161.

Oa 152 Administrative Secretarial Procedures II 3 Crs.

Continue to strengthen and refine the secretarial skills previously acquired and further develop speed and accuracy in a vari-

ety of transcription activities. A capstone course which simulates an office environment in which students are involved with a full spectrum of administrative tasks. Prerequisite: Oa 151.

Oa 161 Introduction to Office Procedures 3 Crs.

An introduction to the study of modern electronic office procedures. Topics will include the secretarial profession, written communications in the office, transmittal and administrative support services, financial aspects, and interpersonal skills. Prerequisite: Oa 041.

Oa 163 Field Office Experience 3 Crs.

This experience is designed to provide students with the opportunity to apply their secretarial skills in an actual office environment. Arrangements will be made with organizations in the local business community for a supervised work experience program. Attendance at scheduled monthly seminars is mandatory. Permission of Chairperson is required.

Oa 171 Office Automation I 3 Crs.

This course is designed to provide the student with "hands-on" experience with au-

tomated office equipment. Emphasis is placed on creating, formatting, and editing documents. IBM and Wang PC's are introduced in this course. Various office related software packages will be utilized. Prerequisite: Oa 042 or permission of Chairperson.

Oa 172 Office Automation II 3 Crs.

This course is a continuation of Office Automation I with emphasis placed on advanced applications. Students will learn advanced procedures for the IBM and Wang PC's. Advanced software applications will be utilized. Prerequisite: Oa 171.

Oa 173 Information Processing Procedures I 3 Crs.

In this course students will be introduced to the technological and organizational changes in an automated office environment. Emphasis will be placed on information processing theory and concepts, the strategies used for composing business correspondence, output procedures and distribution, expediting travel arrangements, and telecommunications. Prerequisite: Oa 161 or permission of Chairperson.