



COURSE DESCRIPTIONS - UNDERGRADUATE



Courses are listed by department, in alphabetical order.

300 and 400 level courses are designed for students of upper-division standing (junior or senior standing).

In the course description, the digit in parenthesis indicates the semester hours of credit for the course.

In planning schedules, students should be reminded that all courses are not offered each semester. In order that students may better plan their program of study, the semesters in which courses will be offered may be listed at the end of the course description. F denotes the course will be offered in the Fall term; S, the Spring term; Su, the Summer term. Contact the department chair for information regarding the offering of a course without semester designation.

ANTHROPOLOGY (ANTH)

- 101 Primates, People and Prehistory.** (3) An exploration of human origins, human evolution, human prehistory and cultural existence from its less complex forms to early civilizations. An introduction to the concepts, methods and data of physical, biological and archaeological anthropology. May be taken with, or independently of, Anthropology 102.
- 102 Understanding Other Cultures.** (3) An exploration and comparison of selected contemporary cultures, including their languages. An introduction to the concepts, methods and data of sociocultural anthropology and anthropological linguistics. May be taken with, or independently of, Anthropology 101. (Not open to anyone who has taken Anthropology 101 before 1976.)
- 110 Introduction to Folklore and Folklife.** (3) An exploration of the major forms of folklore and of the principal concepts and methods of folklife studies. Special attention will be given to folklore and folklife in South Carolina and in the Waccamaw Region.
- 320 Archaeology and Man's Past.** (3) (Prereq: Anthropology 101) An introduction to archaeological research. Archaeological theory and methods in the context of prehistoric data drawn from various world areas. Topics include the role of man as hunter, the development of food production, changing social and trade networks, and prehistoric urbanism in the rise of states and civilization.
- 333 Prehistory of North America.** (3) (Prereq: Anthropology 101) Prehistoric anthropology in North America from the first arrival of man through the beginning of European acculturation.
- 345 Archaeology of Plantations.** (3) An archaeological analysis of antebellum plantations with an emphasis given to the significance of settlement patterns,

(Anthropology, Art Curatorial Studies, Art Education)

spatial organization, architecture, lifeways, crop production, cemeteries, social and economic conditions, and how groups of artifacts speak to these varied topics and the complex relationships that existed between planters, overseers, and slaves.

- 355 Minority Group Relations.** (3) (=Sociology 355) (Prereq: Sociology 101) Theories, methods, and substantive issues in the study of majority-minority group relations with an emphasis upon racial and ethnic differentiation.
- 360 Historical Folklife.** (3) Approaches to the study of the history of the folk and the application of such approaches to topics relating to South Carolina and the Waccamaw Region.
- 398 Archaeological Field Research.** (3) (Prereq: Permission of the instructor) Students actively participate in prospecting, locating, excavating and evaluating a regional archaeological site. Students may register two times for this course, and are limited to a maximum of six hours credit.
- 399 Independent Study.** (1-6) (Prereq: Written contract between student and instructor, approved by the Dean, College of Natural and Applied Sciences.)

ART CURATORIAL STUDIES (ARTC)

- 365 Practicum In Curatorial Studies I.** (3) Students will explore issues relating to the curatorial process through the planning, design and installation of exhibitions. Students will develop graphic and exhibition design proposals, publications, community outreach and public relations strategy for an exhibition. Sessions will include registration, art handling, condition reporting, professional art shipping and receiving, environmental standards for storage and exhibition and the professional responsibilities of the curator.

ART EDUCATION (ARTE)

- 329 Art for Elementary Schools.** (3) Methods of teaching art to elementary school children. Major emphasis will be given to relevant studio experiences.
- 340 The School Art Program.** (3) (Prereq: Art Education 329 or permission of instructor) An introduction to art education as a profession. Students will examine the historical development of art in education, current issues and trends in art education, and prominent rationales for art in the schools. Methods for evaluation of art programs and student art products will be explored.
- 349 Methods and Materials for Teaching Art.** (3) (Prereq: Art Education 329 or permission of instructor) Students will develop art learning units with relevant teaching support materials organized around specific art concepts and art materials. Methods for evaluation of art programs and student art products will be explored. Emphasis is placed on secondary schools.
- 379 Cultural Foundations of Art/Craft in Art Education.** (3) Students will learn to create art using traditional and contemporary craft media and techniques as applicable to K-12 art instruction. Students will also develop an understanding

(Art Education, Art History)

of the forms and functions of non-Eurocentric art across world cultures. Method of instruction will include an examination of relevant researched supported materials and assessment methodologies.

ART HISTORY (ARTH)

- 105 History of Western Art I.** (3) A survey of the visual arts and their relevance to their times from the Paleolithic period through the Gothic period.
- 106 History of Western Art II.** (3) (Writing Intensive) A survey of the visual arts and their relevance to their times from the Renaissance to the present. S.
- 322 Medieval Art & Architecture.** (3) (= History 322) A survey of the cultural and artistic trends from c. 300 to 1300, this course will focus on France, England, Germany, and Italy, but also examine important post-classical innovations in what are now Norway, Greece, Turkey, Israel, Egypt, and Syria. Much of the discussion will concern religious architecture, culminating in High Gothic cathedrals. Decorative arts such as illuminated manuscripts, mosaics, stained glass, and sculpture in wood, stone, bronze, and gold will also be central to the course content.
- 323 Italian Renaissance Art & Architecture.** (3) (=History 323) This course surveys the painting, sculpture, and architecture of the Italian peninsula c. 1300-1550 and the revival of classical ideals and philosophies of visual representation focusing primarily on Florence, Venice, and Rome. The course examines the art and ideas of inspired, creative minds such as Giotto, Masaccio, Ghiberti, Brunelleschi, Alberti, Donatello, Botticelli, Leonardo da Vinci, Michelangelo, Raphael, Titian, Palladio, and many more.
- 324 Baroque Art & Architecture.** (3) (= History 324) The 17th Century was a period of remarkable exploration, experimentation, and change. Those events were embodied in the painting, sculpture, and architecture of this Gilded Age. Focusing on the Netherlands and Flanders (modern Holland and Belgium), Rome, France, and Spain, this course surveys the visionary ideas of Caravaggio, Carracci, Rembrandt, Rubens, Vermeer, Velasquez, Borromini, and Bernini among others.
- 340 American Art.** (3) A survey of the fine arts, popular arts, architecture, and material culture of the United States, taking into consideration important events in social, political, and economic history from the time of British colonies to the mid twentieth century.
- 341 Modern Art 1800-1940.** This course follows the development of a modern consciousness within the art of Europe and the United States from 1800 to 1940. The progressive advance of stylistic movements during a time of revolutions, industrial, change, and colonial expansion includes neoclassicism, romanticism, realism, impressionism, expressionism, cubism, surrealism, and others. The impact of non-European traditions on the growth of a modern aesthetic will be explored.
- 342 Post-Modern & Contemporary Art - 1940 To The Present.** (3)

(Art History)

Study of the major trends in art and visual practices within the United States and Europe, since 1940 to the present, in order to understand how artists engage a personal vision, political point of view, or intellectual goal in their interaction with the world.

- 345 African American Art.** (3) An overview of the African-American presence in the fine arts, popular arts, architecture and material culture produced in the United States from the time of the transatlantic slave trade to the present. Study includes both the art created by African descendent Americans as well as the representation of African-Americans by Euro-Americans.
- 350 Art and Ideas.** (3) (Prereq: Art History 101 or 105 or 106, or permission of instructor) An introduction to aesthetics, art theory, and art criticism. Students will read and discuss a variety of philosophical and critical writings that relate to the visual arts.
- 355 American Film.** (3) (Prereq: completion of an Art History 100-level course with a grade of C or better or consent of instructor) This course is an introduction to a preeminent visual art form of the 20th century - the motion picture. This course will give students a criteria for interpreting film within an historical context while introducing major genres, significant directors and influential screen actors from the formative years of this art.
- 360 Gender and Ethnicity in Art.** (3) (=Women's Studies 360) (Prereq: completion of an Art History 100-level course with a grade of C or better or consent of instructor) (Writing Intensive) A critical examination of how gender and ethnicity have been represented in visual culture within the Western tradition.
- 392 Critiquing The Museum.** (3) This course involves travel to museums and galleries in order to broaden our understanding about how viewers perceive and interact with art in various settings. We will consider how our responses are influenced by the manner of display, and the environment within which an exhibition is mounted. Travel destinations have included New York and Paris, and may vary each time the course is offered.
- 450 Ashes2Art: Digital Reconstructions of Ancient Monuments.** (3) (= ARTS 450) Ashes2Art combines cutting edge digital technologies, art history, graphic and web design, and digital photography to recreate monuments of the ancient past. The course is completely hands-on and provides an extraordinary opportunity for students to combine various skills from disparate disciplines. Students will conduct focused research on a specific monument (or city or object), write essays that summarize various opinions, and document those sources with an extended bibliography. Students then incorporate that research into a web-based project utilizing cutting edge technologies, including Adobe Photoshop, Google Earth, SketchUp, Panoweaver, Tourweaver, Studio Max, Dreamweaver, Cinema 4D and Macromedia Flash animation.
- 499 Special Topics in Visual Culture.** (3) (Prereq: Art History 105, 106, or permission of instructor) Topics in visual culture of special interests but which are too specific to be served by an established course. Topics may include but are not limited to more diverse imagery than traditionally offered in an art history survey

(Art Studio)

course. May be taken more than once as the topic changes. Course fulfills upper level course requirement for Art Studio majors.

ART STUDIO (ARTS)

- 103 Fundamentals of Art I.** (3) An introduction to the basic principles of two-dimensional design and color.
- 104 Fundamentals of Art II.** (3) An introduction to the basic principles of three-dimensional design and form.
- 111 Drawing I.** (3) Basic course in the materials and techniques of drawing.
- 112 Drawing II.** (3) (Prereq: Art Studio 111) Basic course in the materials and techniques of drawing.
- 201 Introduction to Electronic Design.** (3) An introductory course addressing the role of the professional designer in visual communications. Strategies, techniques and software used in the electronic design process are addressed. Topics covered are layout, design, typography, illustration, web design and desktop publishing.
- 202 Graphic Design Techniques.** (3) (Computer Usage) (Prereq: Art Studio 103 and 201) A course exploring printing and reproduction methods. Projects focus on printing processes and the production of camera ready art. Extensive use of the computer as a graphic design tool.
- 204 Ceramics (Pottery/Sculpture).** (3) (Prereq: Art Studio 104 or permission of the instructor) An introductory course to explore ceramic processes involved with pottery and sculpture. Concentration is on hand building techniques of pinch, coil, and slab construction. Experiences will include decorating techniques, several glaze technologies and kiln loading and firing.
- 205 Web Design I.** (3) Further study in web design and on-line information systems. Projects include: designing web sites with creative interfaces, designing strong graphic images, functional site organization and logical navigation schemes. Additional topics covered include CSS, templates, layers, frames and Flash Animation.
- 206 Relief Printmaking.** (3) (Prereq: Art Studio 103 and Art Studio 111, 112, or consent of instructor) Introduction to the relief printmaking processes, including woodcut and linocut, in black and white and color.
- 207 Silkscreen Printmaking.** (3) (Prereq: Art Studio 103 and Art Studio 111, 112, or permission of instructor) Introduction to the silkscreen printmaking processes.
- 208 Sculpture.** (3) (Prereq: Art Studio 104 or permission of instructor) This course introduces the materials and techniques of sculpture, including plaster modeling, cold casting, carving, and assembling.
- 211 Painting with Water Media.** (3) (Prereq: Art Studio 103 and Art Studio 111, 112, or permission of instructor) Introduction to the concepts and materials

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of water-based painting. Included will be dry and wet paper techniques, resists, various supports and grounds; traditional and contemporary usages.

- 212 Painting with Opaque Media.** (3) (Prereq: Art Studio 103 and Art Studio 111, 112 or permission of instructor) Introduction to the concepts and materials of painting with an opaque medium (oil or acrylic at instructor's discretion). Included will be alla prima, wet on wet, underpainting, glazing, palette knife techniques, various supports and grounds; traditional and contemporary usages.
- 231, 232 Life Drawing I, II.** (3 each) (Prereq for 231: Art Studio 111, 112; for 232: Art Studio 231 or permission of instructor) An introduction to drawing the figure from life, with an emphasis on visual perception and basic drawing skills.
- 261 Introduction to Black and White Photography.** (3) An introduction to the use of the camera, light as a creative tool, darkroom practices, film developing, and printing. Emphasis on photography as a creative medium for personal expression.
- 297 Sophomore Review.** (1) (Prereq: sophomore standing - 59 or 60 credits) A diagnostic and advisory review of the student's work at the end of the sophomore year, conducted in conference with an art faculty committee, with the student's adviser serving as chair.
- 301 Intermediate Graphic Design I.** (3) (Prereq: Art Studio 202) A course that explores further printing and reproduction methods and the use of typesetting and photocopying equipment. Projects will include trademarks, logos, and corporate programs. Extensive use of desktop publishing.
- 302 Intermediate Graphic Design II.** (3) (Prereq: Art Studio 301) Further study in graphic design processes, information formats and systems. Projects include catalogues, reports, magazines, signage, and corporate information systems. Extensive use of desktop publishing.
- 303 Illustration.** (3) (Prereq: Art Studio 103 and Art Studio 111, 112) Introduction to the ideas and techniques of illustration as used in commercial art.
- 305 Web Design II.** (3) Advanced problems in web design and development. Students will continue to use web authoring software as well as explore the server side of web design. Projects include building dynamic/database driven web sites and applications using several server side technologies such as ASP, Coldfusion and PHP.
- 306 Interactive Design Techniques.** (3) This course introduces students to Macromedia Flash and the principles and techniques used in designing Flash Web sites and CD Roms.
- 311, 312 Intermediate Painting I, II.** (3 each) (Prereq: Art Studio 211 or Art Studio 212) Further explorations of materials and techniques of painting with emphasis on individual creative expression.
- 321 The Functional Vessel.** (3) (Prereq: Art Studio 204 or permission of the

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instructor) This ceramic course concentrates upon wheel throwing techniques to include basic forms, lidded vessels and composite vessels of a functional purpose, including the teapot.

322 The Sculptural Vessel. (3) (Prereq: Art Studio 204 or permission of the instructor) This ceramic course combines wheel throwing and hand building processes in pursuit of a sculptural approach to the vessel tradition. Presentations and readings on contemporary developments within the ceramic vessel tradition will be explored. Review and refinement of wheel throwing and hand building skills are incorporated to extend the student's range of options in pursuit of a personal vocabulary of the sculptural vessel.

331,332 Advanced Drawing I, II. (3 each) (Prereq: Art Studio 231 and 232) Advanced methods of graphic representation and expression. Emphasis is on traditional and non-traditional methods and developing individual creative expression.

361 Intermediate Black and White Photography. (3) (Prereq: Art Studio 261) An intermediate course continuing the investigation into photographic techniques. Panning, zooming, multiple exposure, and the creative use of different developers, films, and papers will be stressed as well as darkroom manipulation of the image.

371 Introduction to Etching. (3) (Prereq: Art Studio 103 and Art Studio 111, 112 or permission of instructor) An introduction to the etching/intaglio printmaking processes.

372 Introduction to Fine Art Lithography. (3) (Prereq: Art Studio 103, 111, 112, or permission of instructor) Introduction to stone and plate lithography printmaking processes.

381 Sculptural Processes. (3) (Prereq: Art Studio 208 or permission of the instructor) This course encourages sculptural exploration through the use of the subtractive and additive methods in metal, plaster, stone, or wood. Emphasis will be placed on the mastery of techniques that are integral to making and understanding subtractive and additive sculpture. Carving as well as the assembly of steel, plaster, stone, cement, and wood will be explored.

382 Objective Sculpture. (3) (Prereq: Art Studio 208 or permission of the instructor) This course investigates sculpture as object making. Students experiment with a wide range of scale, format, materials, and media options, with emphasis on the creation of meaning in personal objects. Presentations and readings provide historical and contemporary context for a better understanding of sculpture as object.

399 Independent Study. (3) See guidelines under Academic Regulations in this Catalog; may be repeated for credit with different topics.

401 Advanced Graphic Design I. (3) (Prereq: Art Studio 302) Advanced problems in advertising, promotion, packaging, and poster design. Projects include development of presentation techniques. Extensive use of desktop publishing and photography.

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- 402 Advanced Graphic Design II.** (3) (Prereq: Art Studio 401) Advanced problems in exhibition and environmental graphics, group solutions, client presentations and portfolio presentation. Extensive use of desktop publishing and photography.
- 411, 412 Advanced Painting I, Advanced Painting II.** (3 each) (Prereq: Art Studio 312) Upper level courses for students with substantial backgrounds in painting. The choice of medium will be left to the student. Emphasis is on design, developing personal expression and style.
- 421 Objective Approaches in Ceramics.** (3) (Prereq: Art Studio 204 or permission of the instructor) This course combines review and refinement of existing wheel and hand building processes leading to the extension of skill acquisitions. The focus is on personal design and construction of the clay object, whether functional and/or sculptural in purpose. Issues with the craft/fine art debate are addressed by presentations and reading to provide historical and contemporary context for students to explore design and meaning for the clay object today. Further glaze and surface resolutions are explored and mixed media options are addressed.
- 422 Narratives in Clay.** (3) (Prereq: Art Studio 204 or permission of the instructor) This course focuses primarily on combining various sculptural processes with the intent to examine a variety of strategies for developing personal narratives in clay. Studio experiences are supported by readings on and analysis of rapidly developing trends in contemporary ceramic sculpture to discern creative strategies, historical appropriations and cross cultural influences available to the ceramic artist today. Student work may range from tile, relief to sectional sculptures and may include mixed media solutions as a further means to extend sculptural options.
- 471, 472 Advanced Printmaking I and II.** (3 each) (Prereq: Art Studio 206 or 207 or 371 or 372) Advanced work on an individual basis in one or more printmaking media. Emphasis placed on experimentation and development of personal imagery and direction.
- 481 Experimental Sculpture.** (3) (Prereq: Art Studio 208 or permission of the instructor) This course explores the theory and practice of sculptural site activation. Students will work in the extended mediums of site, space, light, sound, motion, and time-based technologies that may include digital imaging and video, investigating sculpture as active experience. An installation space will be available for student use and cooperative interaction will be encouraged.
- 482 Advanced Sculptural Processes.** (3) (Prereq: Art Studio 381, 382, 481, or permission of the instructor) This course encourages sculptural exploration by allowing students to work with media and content of their choice, and encourages the exploring of some material new to them. Emphasis will be placed on the mastery of techniques that are integral to developing and understanding personal sculptural expression.
- 495 Art Studio Internship I.** (3) (Prereq: Art Studio 103, 104, 111, 112, Art History 105, 106, plus junior standing, and 2.00 or better GPA. Students must have permission of the department chair before applying for internship.) Application for the internship can be obtained without first receiving permission from the

(Art Studio, Astronomy)

chair of the department. Students are professionally supervised in an organization while working 120 hours during a semester (12 weeks at 10 hours per week). The application states the course objective, course requirements and grading procedures. A contract between the student and the facility or organization where the internship will take place is signed by all parties - the student faculty supervisor, Chair of the department and the Dean of the Edward College of Humanities and Fine Arts. During the internship period, students are required to maintain a journal and when possible build a portfolio. Interim and final reports are sent to the organization during the semester by the coordinator of internships.

496 Art Studio Internship II. (1-3) (Prereq: Art Studio 495) Application must be obtained from the Chair of the department before applying. Students are professionally supervised in an organization while working 120 hours during a semester (12 weeks at 10 hours per week). The application states the course objective, course requirements and grading procedures. A contract between the student and the facility or organization where the internship will take place is signed by all parties - the student faculty supervisor, Chair of the department and the Dean of the Edward College of Humanities and Fine Arts. During the internship period, students are required to maintain a journal and when possible build a portfolio. Interim and final reports are sent to the organization during the semester by the coordinator of internships. This internship opportunity is open only to students who have already taken Art Studio 495.

497 The Artist as a Professional. (3) (Computer Usage) (Prereq: Second semester junior majoring in studio art or permission of adviser) The range of topics covered in this course includes the development of an Artist statement, a biographic statement, resume writing, and portfolio development for senior thesis show and professional presentation. Instruction will be given on how to prepare work for presentation orally, as well as in digital format. Students will use the computer extensively in preparing a CD on which they place their entire portfolio (artist statement, bio, resume and digital images.) They will also learn how to format their art images for insertion onto the Visual Arts web site.

499 Special Topics in Art. (3) (Prereq: Permission of instructor) In-depth investigation of specific topics and media not generally available in the curriculum. May be repeated for credit under different topics.

ASTRONOMY (ASTR)

111 Descriptive Astronomy I. (3) An introduction to basic astronomical principles and their historical development, with emphasis on some of the major objects in the solar system. A description of physical processes, and the methods used by astronomers, will be presented. A combination of three hours lecture and demonstration designed primarily, but not exclusively, for non-science majors. F, Su.

111L Descriptive Astronomy I Laboratory. (1) (Coreq: Astronomy 111 or permission of the instructor). A series of laboratory experiments and exercises (in and outdoors) to accompany Astronomy 111. Students will have the opportunity to do some night sky viewing (naked eye as well as telescope viewing). A sample

(Astronomy, Bioinformatics, Biology)

of exercises: Phases of the Moon, the sky in Autumn, comparative planetology, rotation of the rings of Saturn, etc. No college mathematics prerequisite, but competency in high school algebra and geometry is expected. F, Su.

112 Descriptive Astronomy II. (3) (Prereq: Astronomy 111) An introduction to basic astronomical principles and their development, with emphasis on stars and stellar systems; stellar evolution; interstellar matter, dust, and nebulae; galaxies; cosmology and cosmogony; and life in the universe. A combination of three hours lecture and demonstration designed primarily, but not exclusively, for non-science majors. S, alternate Su's.

112L Descriptive Astronomy II Laboratory. (1) (Coreq: Astronomy 112 or permission of the instructor). A series of laboratory experiments and exercises (in and outdoors) to accompany Astronomy 112. Students will have the opportunity to do some night sky viewing (naked eye as well as telescope viewing). A sample of exercises: Spectral classification, the Spring sky, distance to stars, the Andromeda galaxy, the rate of expansion of our Universe, etc. No college mathematics prerequisite, but competency in high school algebra and geometry is expected. S, alternate Su.

BIOINFORMATICS (BINF)

101 Introduction to Bioinformatics. (3) (Prereq: Mathematics 130) (Coreq: Bioinformatics 101L) An introduction to bioinformatics, the use of computational techniques to extract and analyze information from genomic and biological databases. F, S.

101L Introduction to Bioinformatics Lab. (1) (Prereq: Mathematics 130) (Coreq: Bioinformatics 101) The laboratory involves the use of computerized bioinformatics methodologies for the extraction and analysis of genomic and biological information. F, S.

BIOLOGY (BIOL)

101 The Science of Life - Biology for Non-Science Majors. (3) (Prereq: Science 101, 101L) (Coreq: Biology 101L) A non-technical introduction to Biology for non-science majors. This course will introduce students to basic biological processes and relate them to everyday life.

101L The Science of Life Laboratory for Non-Science Majors. (1) (Prereq: Science 101, 101L) (Coreq: Biology 101) A non-technical introduction to Biology for non-science majors. This course will introduce students to basic biological processes using a series of hands-on laboratory exercises.

121 Biological Science I. (3) (Prereq: Placement into MATH 131 or higher, or have a C or better in MATH 130) (Coreq: Biology 121L) An introduction to biological principles for students majoring in biology and related fields of study. Topics include scientific method, chemistry of life, macromolecules, cell structure and function, mendelian and molecular genetics. F, S, S1.

121L Biological Science I Laboratory. (1) (Coreq: Biology 121) Experiments, related to topics in Biology 121. Exercise topics include evolution, experimental design, data analysis, photosynthesis, cellular respiration and macromolecules. F, S, S1.

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- 122 Biological Science II.** (3) (Prereq: Biology 121, 121L) (Coreq: Biology 122L) An introduction to biological principles for students majoring in biology and related fields of study. Topics include evolution, origin of life, plant and animal development, ecology. F, S.
- 122L Biological Science II Laboratory.** (1) (Prereq: Biology 121, 121L) (Coreq: Biology 122) Experiments, exercises and demonstrations emphasizing topics covered in Biology 122 with an oral communications component. F, S.
- 232 Human Anatomy and Physiology I.** (3) (Coreq: Biology 232L) An introduction to the structure and function of cells, tissues, organs, and the muscular-skeletal systems of the body. Required of students in nursing, pre-pharmacy, and most health-related programs. Not available for major or minor credit. Three lecture hours per week. F.
- 232L Human Anatomy and Physiology I Laboratory.** (1) (Coreq: Biology 232) A practical approach to the study of the structure and function of cells, tissues and organs. The systems which are covered in Biology 232 are emphasized in this Lab. Three laboratory hours per week. F.
- 242 Human Anatomy and Physiology II.** (3) (Prereq: Biology 121 or 232) (Coreq: Biology 242L) A continuation of Biology 232 covering the nervous, endocrine, circulatory, respiratory, digestive, excretory and reproductive systems. Required of students in nursing, pre-pharmacy and most health-related programs. Not available for major or minor credit. Three lecture hours per week. S.
- 242L Human Anatomy and Physiology II Laboratory.** (1) (Coreq: Biology 242) A practical approach to the study of the structure and function of the systems covered in Biology 242. Three laboratory hours per week. S.
- 300 Biology Seminar.** (1) Opportunity for students to study, discuss and present papers on topics of historic and/or contemporary biologic importance. F, S.
- 302 Marine Biology.** (3) (Writing Intensive) (= Marine Science 302) (Prereq: Marine Science 112 and Biology 122) (Coreq: Biology 302L) Study of the adaptive and evolutionary mechanisms by which organisms are able to occupy the various marine habitats. The evolutionary development of the diversity of marine organisms. Three lecture hours per week. F, S.
- 302L Marine Biology Laboratory.** (1) (Writing Intensive) (= Marine Science 302L) (Coreq: Biology 302) The laboratory will demonstrate the topics and principles presented in lecture. Three laboratory hours per week. F, S.
- 310 Invertebrate Zoology.** (3) (Prereq: Biology 122 or Marine Science 302) (Coreq: Biology 310L) Phylogenetic and comparative aspects of anatomy, physiology, reproduction, and embryology of the invertebrates. Three lecture hours per week. Offered on demand.
- 310L Invertebrate Zoology Laboratory** (1) (Coreq: Biology 310) Laboratory exercises to accompany Biology 310. Three laboratory hours per week. Offered on demand.

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- 315 Comparative Vertebrate Anatomy.** (3) (Prereq: Biology 121 or Marine Science 302) (Coreq: Biology 315L) A comparative and embryological approach to the structure of vertebrate systems. Three lecture hours per week. F.
- 315L Comparative Vertebrate Anatomy Laboratory.** (1) (Coreq: Biology 315) A practical, comparative approach to the study of the structure of vertebrates. The dogfish shark and domestic cat are the emphasized laboratory specimens. Three laboratory hours per week. F.
- 320 Plants and Civilization.** (3) Topics included are: the relationship of plants to human history and contemporary needs; botanic and economic uses of plants as sources of foods, rugs, woods, oils, and other products important in western life. Origin of cultivated plants will also be discussed. Three lecture hours per week. Offered on demand.
- 321 Plant Form and Function.** (3) (Prereq: Biology 121/121L, and Biology 122/122L) (Coreq: Biology 321L) Anatomy, diversity, life cycles, and functional morphology of plants. Three lecture hours per week. S.
- 321L Plant Form and Function Lab.** (1) (Prereq: Biology 121/121L and Biology 122/122L) (Coreq: Biology 321) Laboratory exercises to accompany Biology 321. Three hours per week. S.
- 325 Systematic Botany.** (3) (Prereq: Biology 121, 122) (Coreq: Biology 325L) Identification, classification, nomenclature, distribution and systematic relationship of vascular plants with emphasis on local flora. Three lecture hours per week. S.
- 325L Systematic Botany Laboratory.** (1) (Coreq: Biology 325) Field experience including trips to maritime, riverine and upland habitats. Three laboratory hours per week. S.
- 328 Plant Pathology.** (3) (Prereq: Biology 121, 122, and 330 recommended) (Coreq: Biology 328L) A study of plant diseases. Topics include parasitism and disease development, interaction of pathogens and host plants, genetics of plant disease, epidemiology, control of diseases and a survey of specific plant diseases. F, even years.
- 328L Plant Pathology Laboratory.** (1) (Coreq: Biology 328) Laboratory exercises to accompany lecture. Three laboratory hours per week. Offered on demand.
- 330 Microbiology.** (3) (Prereq: Biology 121 and 122) (Coreq: Biology 330L) An introduction to bacteria and viruses, emphasizing morphology, ultrastructure, metabolism, and growth. Discussion of pathogenic microbes, antigen-antibody relationships and antimicrobial agents in chemotherapy. Three lecture hours per week. S.
- 330L Microbiology Laboratory.** (1) (Coreq: Biology 330) Laboratory exercises to accompany Biology 330. Three hours per week. S.
- 340 Cell Biology.** (3) (Prereq: Biology 121, 122 and Chemistry 112) (Coreq: Biology 340L; Chemistry 331 is recommended) An integrated approach to the structure

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and function of cells. Cytology and fine structure of cell organelles, membranes, and extracellular structures will be discussed, as well as the techniques available to cell biologists. Three lecture hours per week. F, S.

340L Cell Biology Laboratory. (1) (Writing Intensive) (Coreq: Biology 340) Laboratory exercises to accompany Biology 340. Three laboratory hours per week. F, S.

343 Comparative Physiology. (3) (Prereq: Biology 122 or Marine Science 302 and Chemistry 331 or permission of instructor) (Coreq: Biology 343L) The comparative study of the origins, relationships, and functions of physiological mechanisms in vertebrate animals. Three lecture hours per week. S.

343L Comparative Physiology Laboratory. (1) (Coreq: Biology 343) Laboratory exercises to accompany Biology 343. Three laboratory hours per week. S.

345 Biology of Human Cancer. (3) (Prereq: Biology 121) Topics covered in this course will include, the nature and cause of cancer, cancer at the cellular and molecular levels, cancer prevention and treatment, and overview of major types of cancer, and prospects for the future. Three hours of lecture per week. May.

349 Plant Physiology. (3) (Prereq: Biology 121, 122 and Chemistry 112; Chemistry 331 is recommended) (Coreq: Biology 349L) A study of plant function. Topics include water relations, mineral nutrition, photosynthesis, plant metabolism, plant growth and development, and environmental physiology. Laboratory exercises will demonstrate principles in lecture topics. Three lecture hours per week. Offered on demand.

349L Plant Physiology Laboratory. (1) (Coreq: Biology 349) Laboratory exercises to accompany Biology 349. Three laboratory hours per week. Offered on demand.

350 Fundamentals of Genetics. (3) (Prereq: Biology 121, 122 or Marine Science 302) (Coreq: Biology 350L) Basic principles of transmission and molecular genetics; quantitative inheritance, recombination; biochemical aspects of gene function and regulations; developmental genetics and population genetics. Three lecture hours per week. F, S.

350L Fundamentals of Genetics Laboratory. (1) (Coreq: Biology 350) Laboratory exercises to accompany Biology 350. Three laboratory hours per week. F, S.

365 Evolution. (3) (Prereq: Biology 121 and 122, or consent of instructor) (Coreq: Biology 365L) This course will provide students with a comprehensive framework of evolutionary theory. Topics include population genetics, speciation, systematics, and macroevolution. Three lecture hours per week. Offered on demand.

365L Evolution Laboratory. (1) (Coreq: Biology 365) This laboratory gives students the opportunity to further their knowledge of evolution through hands-on, field and laboratory-based exercises. Three laboratory hours per week. Offered on demand.

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- 370 Principles of Ecology.** (3) (Writing Intensive) (Prereq: Biology 122 or Marine Science 302) (Coreq: Biology 370L) Interactions of organisms and their environments. Ecosystem structure and function. Three lecture hours per week. F, S.
- 370L Principles of Ecology Laboratory.** (1) (Prereq: Biology 122L or Marine Science 302L) (Coreq: Biology 370) Applications of principles and techniques used in the study of ecology, both in the lab and in the field. Three laboratory hours per week. F, S.
- 375 Biology of Marine Mammals.** (3) (=Marine Science 375) (Prereq: Marine Science 302 or Biology 370) (Coreq: Biology 375L) A comprehensive survey of the biology and ecology of marine mammals, emphasizing the cetaceans, pinnipeds, sirenians, and sea otters. Major topics will include evolution and classification, anatomy and physiology, feeding and trophics interactions, life history, social organization and behavior, communication, cognition, and interactions with humans. Three lecture hours per week. F.
- 375L Marine Mammals Laboratory.** (1) (=Marine Science 375L) (Coreq: Biology 375) The laboratory will demonstrate the topics and principles presented in the lecture. Three laboratory hours per week. F.
- 390 Natural History of East Africa.** (4) (Prereq: Biology 121, 122, permission of instructor) A survey of the flora and fauna of the major biomes of East Africa, including the coral reef. Students will study the interrelation of the organisms with their environment and the stresses caused by population, climate, tourism, and habitat destruction. Three weeks field experience in east Africa will be supplemented with lectures at various stages of the trip. Students will be required to maintain journal entries of identified plant and animal species. May, odd years.
- 391 Natural History of the Rainforest and Galapagos Islands.** (4) (Prereq: Biology 121 or 122) A survey of the flora and fauna of the Rain forest in the Amazon Basin and the Galapagos Islands. A two-week field experience will be supplemented with lectures at various stages of the trip. May, even years.
- 397 Selected Topics.** (1-4) (Prereq: Permission of the instructor) These topics are designed to allow the development of seminars and courses in special areas of biology. F, S.
- 399 Independent Study.** (1-6) (Prereq: Permission of instructor and approved contract) Directed study on specific topics. F, S.
- 405 Immunology.** (3) (Prereq: Biology 340 and Biology 350) (Coreq: Biology 405L) This course will cover the organs and cells of the immune system, mechanisms of innate and acquired immunity, immune system homeostasis, infectious disease, transplant and tumor immunology, autoimmunity, and vaccines.
- 405L Immunology Lab.** (1) (Prereq: Biology 340L and Biology 350L) Coreq: Biology 405) This course provides practical experiences to support the ideas learned in immunology lecture, and includes exposure to many techniques used in modern immunology and medical laboratories.

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- 410 Developmental Biology.** (3) (Prereq: Biology 340 or 350 or permission of instructor) (Coreq: Biology 410 L) The course provides an understanding of modern developmental biology and considers classical embryology as well as the molecular basis of development. Topics include gametogenesis and fertilization, embryogenesis, cell differentiation, pattern formation and organogenesis, and cell cycle regulation. Discussion of emerging areas of developmental biology such as cloning, stem cell research, cancer genetics and genomics.
- 410L Developmental Biology Laboratory.** (1) (Prereq: Biology 340 or 350 or permission of instructor) (Coreq: Biology 410) A laboratory course to complement Biology 410 that will introduce students to some of the basic experimental questions and techniques of developmental biology.
- 411 Virology.** (3) (Prerequisite Biology 350/350L) (Co-requisite Biology 411L) The class is designed to introduce students to the field of virology with particular attention paid to the medically significant viruses. The course will cover the basic mechanisms of viral replication, transmission, host evasion, and the clinical/epidemiological aspects of viruses.
- 411L Virology Laboratory.** (1) (Prerequisite Biology 350/350L) (Co-requisite Biology 411) Students will be introduced to basic virology techniques. The class will isolate and characterize bacteriophages from the water and soil in the local community. The students will also follow the pathogenesis and characterize plant viruses. The class will also study some epidemiological cases that have happened in the past to get an understanding of viral outbreaks.
- 423 General Entomology.** (3) (Prereq: Biology 122) (Coreq: Biology 423L) A general study of insects, closely related arthropods and insects of medical importance; morphology, physiology, ecology, taxonomy and life cycles. Three lecture hours per week. F, even years.
- 423L General Entomology Laboratory.** (1) (Coreq: Biology 423) Includes field experience and an insect collection. Three laboratory hours per week. F, even years.
- 424 Mycology.** (3) (Prereq: Biology 122) (Coreq: Biology 424L) An introduction to the understanding of the taxonomic relationships of the various fungal groups, as well as an introduction to the understanding of fungal growth, reproduction, metabolism, ecological relationships, and the utilization by and effects on human beings. Three lecture hours per week. Offered on demand.
- 424L Mycology Laboratory.** (1) (Coreq: Biology 424) An applied approach to the study of fungi, focusing on isolation and identification. Three laboratory hours per week. Offered on demand.
- 426 Ichthyology: Fish Biology.** (3) (Prereq: Biology 122 or Marine Science 302 and/or permission of instructor) (Prereq or Coreq: Biology 426L) Morphology, classification, evolution and distribution of fishes with emphasis on South Carolina marine and freshwater species. Three lecture and per week. F, odd years.

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- 426L Ichthyology Laboratory.** (1) (Prereq or Coreq: Biology 426) Laboratory and field exercises emphasizing the topics covered in Biology 426. Students will be required to make and turn in a collection of preserved fish specimens. Three laboratory hours per week. F, odd years.
- 431 Parasitology.** (3) (Prereq: Biology 122) (Coreq: Biology 431L) A detailed study of the parasites of medical importance to humans with emphasis on the morphology, life cycles and the effects of these parasites on the human body. Three lecture hours per week. S.
- 431L Parasitology Laboratory.** (1) (Coreq: Biology 431) A practical approach to the study of parasites of medical importance to humans. The recognition of selected species of parasitic protozoa and helminths and their structural detail is emphasized. Three laboratory hours per week. S.
- 436 Animal Behavior.** (3) (Prereq: Biology 370) (Coreq: Biology 436L) This course traces historical and modern developments in the study of animal behavior and emphasizes the evolutionary, ecological, physiological determinants of behavior. Three lecture hours per week. Offered on demand.
- 436L Animal Behavior Laboratory.** (1) (Coreq: Biology 436) This lab course gives students the opportunity to further their knowledge of animal behavior through hands-on field and laboratory-based exercises. Three laboratory hours per week. Offered on demand.
- 442 Advanced Genetics.** (3) (Prereq: Biology 350 or permission of instructor) (Coreq: Biology 442L) This course will cover the molecular processes of genetic change within genomes, individuals, and populations over both short and long time-scales. Furthermore, students will read current research in evolutionary genetics to better appreciate the benefits and detriments of genetic change in domesticated and natural populations of organisms. Three lecture hours per week. Offered on demand.
- 442L Advanced Genetics Laboratory.** (1) (Coreq: Biology 442) Laboratory exercises to accompany Biology 442. Three laboratory hours per week. Offered on demand.
- 450 Molecular Biology and Evolution.** (3) (Coreq: Biology 450L) Techniques of molecular analysis with emphasis on DNA methods, including cloning, PCR, DNA sequencing, RFLP, RAPD and VNTR analysis. Applications of these techniques to problems in ecology, evolution, population studies, animal behavior and other areas of science.
- 450L Molecular Biology and Evolution Laboratory.** (1) (Coreq: Biology 450) Exercises and guided reading to accompany Biology 450.
- 451 Molecular Techniques.** (4) A research-based practicum on techniques of DNA analysis. Laboratory exercises serve as an introduction to DNA purification, quantitation and sequencing, PCR, gel electrophoresis, enzyme digestion and cloning.
- 455 Marine Botany.** (3) (= Marine Science 455) (Prereq: Biology 122 or Marine Science 302 or permission of instructor) (Coreq: Biology 455L) A field course

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in marine flora with emphasis on ecology and functional morphology. Work will stress the roles of marine bacteria, fungi, algae, and angiosperms in coastal marine communities. Three lecture hours per week. F, even years.

455L Marine Botany Laboratory. (1) (=Marine Science 455L) (Coreq: Marine Science 455) The laboratory will demonstrate the topics and principles presented in lecture. Three laboratory hours per week. F, even years.

461 Ornithology. (3) (Prereq: Biology 370 or permission of instructor) (Coreq: Biology 461L) The study of birds with emphasis on morphological and behavioral adaptations exhibited by birds in response to their environment. Laboratory exercises introduce the student to the diversity of birds with emphasis on the avifauna of North America. Topics include field identification of species, morphological and behavioral adaptations for feeding and locomotion, bird assemblages of the southeastern United States, and censusing procedures for estimating population densities. Three lecture hours per week. F, even years.

461L Ornithology Laboratory. (1) (Coreq: Biology 461) Field experience and exercises to accompany Biology 461. Three laboratory hours per week. F, even years.

470 Biology of Aging. (3) (Prereq: Biology 121 or Psychology 423 or Sociology 455) A study of aging in cells, organ systems and organisms with emphasis on the human aging process. Topics include biological changes associated with aging and factors that affect the rate of aging. Three lecture hours per week. Offered on demand.

475 Marine Ecology. (3) (=Marine Science 475) (Prereq: Permission of instructor) (Coreq: Biology 475L) Principles of organismic environmental interactions in various marine habitats. Emphasis on marshes, estuaries and coastal waters. Each student will be required to give an oral presentation. Three lecture hours per week. F.

475L Marine Ecology Laboratory. (1) (=Marine Science 475L) (Coreq: Biology 475) The laboratory will demonstrate the topics and principles presented in lecture. Three laboratory hours per week. F.

476 Marine Plankton. (3) (=Marine Science 476) (Prereq: Biology 302) (Coreq: Biology 476L) This course explores the structure and function of planktonic communities. The role of phytoplankton, zooplankton and bacteria are examined in detail. Concepts such as: mineral cycling, energy flow, predator/prey relationships, trophic interactions as well as spatial and temporal dynamics are investigated in lecture, discussion, and an integrated laboratory setting. Three lecture hours per week. S.

476L Marine Plankton Laboratory. (1) (=Marine Science 476L) (Coreq: Biology 476) The laboratory will demonstrate the topics and principles presented in lecture. The laboratory consists of field studies conducted in estuarine and marine environments and may require weekend commitments. Three laboratory hours per week. S.

477 Ecology of Coral Reefs. (3) (=Marine Science 477) (Prereq: Permission of instructor) Principles of organization, structure, productivity and biological

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- diversity of coral reef ecosystems, with emphasis on their sensitivity and stability. Three lecture hours per week plus a two-week field experience on a tropical coral reef. Su.
- 481 Freshwater Ecology.** (3) (Prereq: Biology 370 or Permission of Instructor) (Coreq: Biology 481L) Interactions of physical, chemical, and biological properties of freshwater ecosystems (i.e., groundwater, wetlands, lakes, and streams.) Three lecture hours per week. F.
- 481L Freshwater Ecology Laboratory.** (1) (Prereq: Biology 370L or Permission of Instructor) (Coreq: Biology 481) Laboratory and field exercises devoted to understanding the interactions of physical, chemical, and biological properties of freshwater ecosystems. Three laboratory hours per week. F.
- 482 Plant Ecology.** (3) (Prereq: Biology 121, 122) (Coreq: Biology 482L) A survey of natural plant communities and theories of plant ecology including the interrelationships between plants and their environment. Three lecture hours per week. S, even years.
- 482L Plant Ecology Laboratory.** (1) (Prereq: Biology 121L/122L) (Coreq: Biology 482) Applications of principles and techniques used in the study of plants and their ecology, both in the lab and in the field. Three laboratory hours per week. S, even years.
- 484 Conservation Ecology.** (3) (Prereq: Biology 370) (Coreq: Biology 484L) This course will provide students with a comprehensive framework of conservation ecology. Students that successfully complete this course will learn the techniques used to study biodiversity and become familiar with the framework used to address problems in conservation biology. Three lecture hours per week. Offered on demand.
- 484L Conservation Ecology Laboratory.** (1) (Coreq: Biology 484) This lab course gives students the opportunity to further their knowledge of conservation biology through hands-on, field and laboratory-based exercises. Three laboratory hours per week. Offered on demand.
- 485 Vertebrate Zoology.** (3) (Prereq: Biology 122 or permission of instructor) (Coreq: Biology 485L) The classification and natural history of vertebrates with additional emphasis on adaptive features in the functional morphology and ethology of animals. Three lecture hours per week. SU II, odd years.
- 485L Vertebrate Zoology Laboratory.** (1) (Coreq: Biology 485 or permission of instructor) Laboratory and field experiences emphasizing the topics covered in Biology 480. Laboratories will be centered around field observations of local vertebrates and may include field trips at "unusual" times - nights, early mornings and weekends. Four laboratory hours per week. SU II, odd years.
- 488 Wetland Plant Ecology.** (3) (=Marine Science 478) (Prereq: Biology 121, 122 or Marine Science 302) (Coreq: Biology 488L) (Biology 370 is recommended) An introduction to wetland types, wetland processes, and wetland management. Types of wetlands covered will include tidal freshwater, tidal saltwater, mangroves,

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interior freshwater, bogs, swamps, and riparian. Processes covered will include hydrology, biogeochemistry, and biological adaptation. Wetland management topics will include wetland definitions, classification, evaluation, manipulation, creation, and protection. Three lecture hours per week. F, odd years.

488L Wetland Plant Ecology Laboratory. (1) (=Marine Science 478L) (Prereq: Biology 113L or Marine Science 302L) (Coreq: Biology 488) (Biology 370L is recommended) Applications of principles and techniques used in the study of wetland plants and their ecology, both in the lab and in the field. Three laboratory hours per week. F, odd years.

499 Directed Undergraduate Research. (1-6) (Prereq: Permission of instructor and approved contract) Selected and structured undergraduate research projects conducted with faculty direction and participation. Projects will involve the exploration of biological problems with the scientific method. One conference and at least 5 laboratory or field research hours per week. F, S.

BUSINESS ADMINISTRATION (CBAD)

119 Introduction to Business. (3) Open to all students interested in a survey of the variety of activities that occur in a business organization, designed to acquaint the student with various types and forms of business organizations, operations of our economic system, and social and economic institutions which relate directly to business. Careers in business are also surveyed. Open only to freshmen or by permission of the Dean.

In addition to satisfying specific prerequisites listed for each course, registration for 200-level courses in the Wall College of Business is restricted to students who have earned 24 or more credit hours.

201 Financial / Managerial Accounting I. (3) (Prereq: Success Seminar for Business Majors and completion of 24 semester hours) The financial accounting cycle with emphasis on using financial statements and budgets to initiate and assess business operation, preparation of financial statements, budgets, and business plan for a service and manufacturing company. F, S.

202 Financial / Managerial Accounting II. (3) (Prereq: Grade of C or above in Business Administration 201) Continuation of Business Administration 201...accounting for and reporting revenue and expense cycles...accounting for operations in a corporate environment, including job-order and standard costing of inventories...accounting for noncurrent assets, capital expenditure decisions, long-term debt, and capital stock. F, S.

203 Fraud Detection. Fraud Detection provides an introduction to the behavioral and social factors that motivate occupational offenders. It provides an analysis and taxonomy of the three main categories of occupational fraud and abuse: asset misappropriation, corruption, and fraudulent financial reporting. It includes the various ways fraud and occupational abuse occur, methods to identify exposures to loss, and appropriate prevention, detection, and investigation approaches.

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- 291 Business Statistics.** (3) (Prereq: Success Seminar 195 for business majors or equivalent for all majors, a grade of C or above in Computer Science 110 and Mathematics 130) Basic methods of descriptive statistics and statistical inference...probability, hypothesis testing, and linear regression with an emphasis on decision making in business. Business administration majors must take Business Administration 292 in the semester following successful completion, and may not receive credit for Psychology 225 or Statistics 201. F, S.
- 292 Decision Analysis.** (3) (Prereq: Grade of C or above in Business Administration 291) Emphasis on logical/rational decision making and exposure to conceptual and quantitative techniques and computer applications that aid decision makers in solving real-world problems. Business Administration majors must take this course in the semester following successful completion of Business Administration 291. F, S.

In addition to satisfying specific prerequisites listed for each course, registration for 300-level courses in the Wall College of Business is restricted to students who have earned 54 or more semester hours.

- 330 Intermediate Accounting I.** (3) (Prereq: Grade of C or above in Business Administration 202) Theoretical foundation of generally accepted accounting principles, review of the accounting cycle leading to preparation of financial statements, accounting recognition of assets with special emphasis on cash, receivables, inventories, property, plant and equipment, and the time value of money. F.
- 331 Intermediate Accounting II.** (3) (Prereq: Grade of C or above in Business Administration 330) Accounting recognition of depreciable assets, intangible assets, investments, current liabilities, long-term liabilities. Stockholders equity topics and accounting theory underlying revenue recognition. S.
- 332 Intermediate Accounting III.** (3) (Prereq: Grade of C or above in Business Administration 331) Advanced financial accounting topics including earnings per share, leases, pensions, accounting for income taxes, preparation of cash flow statements, and financial statement analysis. Partnership accounting topics include formation, operation, and liquidation. F.
- 333 Cost Accounting.** (3) (Prereq: Grade of C or above in Business Administration 202) Cost accounting for manufacturing operations...topics include cost-volume profit analysis; job-order, process, and standard costing; budgeting; and decision making under uncertainty. F.
- 336 Accounting Systems and Data Processing.** (3) (Prereq: Grade of C or above in Computer Science 110 or equivalent). Accounting systems as collector and processor of data necessary for effective control of a business organization. Emphasis on electronic data processing and data base management. F.
- 344 Legal Environment of Business.** (3) The legal and judicial system, the law and business (tort, contracts, agency, business organizations), government and regulations, and government protection. F, S.

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- 345 Commercial Law.** (3) The law of contracts and the Uniform Commercial Code, including the sale of goods, commercial paper, bank deposits and collections, secured transactions, debtor and creditor rights, bailments and bankruptcy. F, S.
- 350 Marketing.** (3) (Prereq: Grade of C or above in Economics 101 or 202) A study of the marketing of goods and services, including legal, social, economic, and technological considerations; consumer behavior and target markets; product; pricing; promotion; channels of distribution, and development of marketing strategy. F, S.
- 351 Consumer Market Analysis.** (3) (Prereq: Grade of C or above in Business Administration 350) A study of buying behavior, both consumer and industrial, and the marketing research process...includes psychological, social and economic influences on buying behavior, along with basic market research methods for analyzing those influences. F, S.
- 357 Marketing Research.** (3) (Prereq: Grade of C or above in Business Administration 291 and 350) Case problems and field projects in the application of marketing research methodology, topics include problem diagnosis, research design, questionnaire preparation, sampling plans, and the collection, analysis, and interpretation of data. F, S.
- 360 Stock Market Challenge.** (1) Offers participation in a realistic stock market simulation. Students compete in managing a portfolio of stocks. Open to all students in the university. Grading is on a pass/fail basis only. May be repeated for credit.
- 363 Business Finance.** (3) (Prereq: Grade of C or above in Business Administration 202, 291 or Statistics 201, Economics 101 or 202, and successful completion of Mathematics 132 or 150) Theoretical foundation of optimal financial policy... emphasis on working capital, capital budgeting, financing, and dividend decisions and how they affect the valuation of the firm. F, S.
- 366 Introduction to Real Estate.** (3) An overview of legal, governmental, and market forces which combine with land and materials to form the unique commodity called real estate. Introduces career opportunities, decision methodologies, and market dynamics in the areas of finance, appraisal, market analyses, brokerage, and property management.
- 371 Management and Organizations.** (3) (Writing Intensive) Survey of the basic principles of management with emphasis on social and behavioral issues, provides the basis for thinking about complex business situations in the framework of the management process. F, S.
- 372 Organizational Theory & Behavior.** (3) (Prereq: Grade of C or above in Business Administration 371 and completion of 54 semester hours) A study of the organization, focusing on interactions between organizational designs and people within an ethical framework. The dynamics and links between individuals, groups, and the national and international environment are analyzed to highlight the determinants of organizational effectiveness. A major focus is on the development of positive interpersonal relations. F, S.

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- 374 Human Resource Management.** (3) (Prereq: Grade of **C** or above in Business Administration 371) Develops an understanding of personnel administration as a staff function through a study of modern-day concepts and practices such as research and standards, employment, training and education, safety and health, employee services and industrial relations. F, S.
- 393 Management Information Systems.** (3) (=Resort Tourism Management 393) (Prereq: Grade of **C** or above in Computer Science 110 or equivalent and Business Administration 371) A study of the use of information systems in business, emphasis is on the identification of practical, managerial, and ethical dilemmas related to the development, implementation, and use of information systems. F, S.
- 399 Independent Study.** Written contract between student and instructor, and approved by the Dean. A maximum of 15 credit hours of Business Administration 399 and 499 combined may be taken.

In addition to satisfying specific prerequisites listed for each course, registration for 400-level courses in the Wall College of Business is restricted to students who have earned 84 or more credit hours.

- 401 International Business.** (3) Prereq: Grade of **C** or above in Business Administration 350, 363, 371) A study of the significant aspects of international business operations, including historical development of foreign trade policy and operative problems of international business operations, principle areas of study are: international business and the nation-state, assessing and forecasting the international business environment, and managing the multinational enterprise. F.
- 402 Study Abroad in International Business.** (3) (Prereq: Grade of **C** or above in Business Administration 371 or approval of instructor) A course requiring travel to a foreign country that prepares students to better understand and evaluate the different approaches taken by companies and organizations from different national backgrounds. Focus will be on the economic, sociocultural, and political-legal environments of a foreign country, including how business practices differ from those used by companies here in the United States. (Requires travel abroad)
- 426 Managerial Economics.** (3) (=Economics 326) (Prereq: Admission to the Wall College of Business and a Grade of **C** or above in Business Administration 371) Study of the theory of the firm, elasticity, product and cost, market concentration and integration. Topics include differing market environments, market power, pricing strategies, market failure, and subsequent government intervention.
- 434 Controllership.** (3) (Prereq: Business Administration 331, 333, 363) A capstone course designed primarily for accounting and finance majors who are interested in pursuing a career in industry. CMA/CFA examination topics include controller responsibilities, advanced cost techniques, strategic planning and budgeting, and tax issues other than income tax.
- 437 Auditing Theory.** (3) (Prereq: Grade of **C** or above in Business Administration 291, and 333) (Co-req: Grade of **C** or above in Business Administration 331 or concurrent enrollment in Business Administration 331) Generally accepted

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auditing standards governing external financial audits, audit techniques and procedures, evaluation of internal control system and the audit opinion. S.

- 439 Income Taxation for Business Entities.** (3) (Prereq: Completion of 54 semester hours) Introduction to the income taxation of business entities, including sole proprietorships, partnerships, and corporations. Basic concepts of the federal income tax system...gross income, business deductions, property transactions, comparison of business entities...on-line tax research and tax return preparation. F.
- 440 Individual Income Taxation.** (3) (Prereq: Completion of 54 semester hours) Introduction to sources of income tax law, basic concepts, property transactions, and research with consideration of filing status, exemptions, gross income, deductions, and computations leading to preparation of individual tax returns. S.
- 451 Retailing Management.** (3) (Prereq: Admission to the Wall College of Business and a Grade of C or above in Business Administration 350) Emphasizes the specific activities required of managing a retail outlet such as research, store location, organization, merchandise planning and management, promotion and advertising, pricing policies, and creating, integrating and controlling the retail strategy. S.
- 453 Integrated Marketing Communications.** (3) (Prereq: Grade of C or better in Business Administration 350) The study of advertising and promotion from an integrated marketing communications perspective. Emphasis is given to advertising, sales promotion, direct marketing, personal selling, and public relations/publicity. F.
- 454 International Marketing.** (3) (Prereq: Grade of C or better in Business Administration 350) The study of planning and conducting transactions across national borders for the purpose of satisfying a target market, including environmental factors such as law, politics, society, economy, and technology, as well as the development of international marketing strategy. S.
- 458 Marketing Strategy.** (3) (Prereq: Admission to the Wall College of Business and completion of Business Administration 351 and 357.) Analysis of case problems dealing with the development of strategies and plans for marketing consumer and industrial products. Topics include marketing organization, product, price, promotion, distribution, industry and sales forecasting and analysis of marketing costs. F, S.
- 460 Capital Budgeting.** (3) (Prereq: Admission to the Wall College of Business and a grade of C or above in Business Administration 363) Financial theory and techniques for the analysis and solution of financial problems dealing with asset management. Major emphasis is on the management of long-term assets; however, working capital management will also be covered. F, S.
- 461 Financial Decision Making.** (3) (Prereq: Admission to the Wall College of Business and a grade of C or above in Business Administration 363) Financial theory and techniques for the analysis and solution of financial problems dealing

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with acquisition of funds, topics include capital structure, cost of capital, dividend policy, and valuation. The case method and computer simulation is utilized. F, S.

- 462 Financial Institutions and Markets.** (3) (= Economics 310) (Prereq: Admission to the Wall College of Business and a grade of **C** or above in Business Administration 363) Principal institutions and markets comprising the financial system; their roles in short-term, long-term and equity financing, interest rate determination and capital formation; interrelationships between domestic and international financial markets; government policy objectives and regulations as influences on the financial system. F, S.
- 463 Multinational Business Finance.** (3) (Prereq: Admission to the Wall College of Business and a grade of **C** or above in Business Administration 363) Analysis of institutions and practices unique to the financial management of multinational business enterprises. All aspects of international financial management are covered with a concentration on the corporate form and the increasing importance of global integration of money and capital markets.
- 464 Individual Financial Planning.** (3) (Prereq: Grade of **C** or above in Business Administration 363) In-depth coverage of money management concepts and practices necessary for intelligent control over personal income and expenditures, topics include introduction to financial planning, risk management, investment management, tax planning and management, retirement planning and employee benefits, and estate planning. Utilizes case analyses.
- 465 Financial Statement Analysis.** (3) (Prereq: A grade of **C** or above in Business Administration 363.) The analysis of the profitability and viability of a commercial enterprise. Primary focus given to the analysis of a firm's accounting practices and financial statements from the framework of overall business analysis.
- 467 Real Estate Finance and Investment.** (3) (= Resort Tourism Management 467) (Prereq: Grade **C** or above in Business Administration 363) Principles and practices in real estate finance focusing on institutions, instruments, and determinants of terms and availability of credit, topics include interest and yield mechanics, cash flow analysis, risk analysis, and various loan strategies or packages.
- 468 Advanced Corporate Finance.** (3) (Prereq: Business Administration 460 and 461) In-depth coverage of advanced topics in corporate financial management using computer simulations and dynamic multi period case studies. Long- and short-term corporate financial policy formation is examined against the backdrop of firm value maximization and the market for corporate control. Special consideration is given to mergers, acquisitions, and corporate restructuring. SEC reporting requirements and formats are integrated throughout. F, S.
- 469 Investment Analysis and Portfolio Management.** (3) (Prereq: Grade of **C** or above in Business Administration 363) Conceptual and analytical framework for formulating investment policies, analyzing securities and constructing portfolios. F, S

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- 471 Leadership in Project Management.** (3) (Prereq: Grade of **C** or above in Business Administration 371) Skills and techniques for effective project management. Topics include project development, budget management, scheduling, quality control, and team building. F, S.
- 472 Cross-Cultural Management.** (3) (Prereq: Grade of **C** or above in Business Administration 371) This course involves an analysis of how cultural, economic, and societal influences affect the practices of management. Concepts and practices of planning, organizing, leading employees, and other concerns are examined across different national settings. The human effect in the managerial process is emphasized, and situational influences are identified and examined. F.
- 473 Initiation and Management of New Business Enterprise.** (3) (Prereq: Admission to the Wall College of Business and a grade of **C** or above in Business Administration 371) Analysis of proposed business opportunities, planning and establishing a business organization to exploit an opportunity, and management of small business. F.
- 474 Quality Process Management.** (3) (= Resort Tourism Management 474) (Prereq: A grade of **C** or above in Business Administration 371 and completion of 84 semester hours.) The systematic process through which managers regulate organizational activities to meet planned goals and standards of quality. Topics will include different types of quality control processes, total quality management, product and service quality techniques, and the uses of information technology for insuring quality. S.
- 475 Production/Operations Management.** (3) (Prereq: Admission to the Wall College of Business and a grade of **C** or above in Business Administration 350, 363, and 371) A study of the interactions among organizational resources used in some combination to provide the enterprise's product or service. Special attention is given to decision making using conventional and quantitative tools and techniques with emphasis on the production function. F, S.
- 478 Strategic Management.** (3) (Writing Intensive) (Prereq: Admission to the Wall College of Business and a Grade of **C** or above in Business Administration 350, 363, and 371 and senior standing) Analysis of case problems dealing with the formulation and implementation of organizational strategy and policy, including appraisal of the external environment, top management, marketing, finance, operations, human resources, and the organizational structure. F, S.
- 490 Seminar in Resort Tourism Planning.** (3) (=Resort Tourism Management 490) (Prereq: Completion of 84 semester hours.) This course examines public policy in tourism destinations. Special emphasis is placed on the interrelationships between tourist demand, tourism information systems, tourism goods and services and tourism host communities. Students develop plans for a proposed tourism site.
- 497 Business Internship.** (3-6) (Prereq: Junior standing, minimum GPA of 2.5, and approval of the Associate Dean) Supervised work experience of at least 15 hours per week for 12-14 weeks...internship format must be approved by internship director...a journal detailing work activities will be required.

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- 498 Industry Field Study.** (3) (Prereq: Admission to the Wall College of Business and permission of the Dean) Structured around visits to selected corporations and organizations where management officials will discuss matters confronting today's businessmen, this course is designed to bridge the gap between the classroom and the real world of business. An honors course consisting of students selected by the Wall College of Business Administration on the basis of academic achievement.
- 499 Selected Topics in Business.** (3) Provides Business Administration majors an opportunity to study in small groups, selected topics in business/economics under the guidance of a faculty member. A maximum of 15 credit hours of Business Administration 399 and 499 combined may be taken.

CHEMISTRY (CHEM)

- 101 Introductory Chemistry.** (3) (Coreq: Chemistry 101L) A one semester survey course in chemistry designed primarily for non-science majors. Engineering, science, pre-med, and other majors requiring more than one semester of chemistry should not enroll in this course. Three lecture hours per week. S, F.
- 101L Introductory Chemistry Laboratory.** (1) (Coreq: Chemistry 101) The laboratory demonstrates the topics and principles presented in the lecture. Three laboratory hours per week. S, F.
- 111 General Chemistry I.** (3) (Prereq: A grade of C or better in Mathematics 130 or equivalent) (Coreq: Chemistry 111L) A survey of chemical structure, reactivity and physical properties. Three lectures, and one two-hour workshop per week. F, S, Su.
- 111L General Chemistry Laboratory I.** (1) (Coreq or Prereq: Chemistry 111) This course is an introduction to qualitative inorganic reaction chemistry and quantitative methods of chemical analysis, three hours per week. F, S, Su.
- 112 General Chemistry II.** (3) (Prereq: Chemistry 111/111L) (Coreq: Chemistry 112L) A continuation of Chemistry 111 to include quantitative treatment of chemical kinetics, aqueous solution equilibria, thermodynamics and electrochemistry. Three lectures with two hours of optional workshop per week. F, S, Su.
- 112L General Chemistry Laboratory II.** (1) (Coreq or prereq: Chemistry 112) This course consists of laboratory methods of quantitative study of chemical kinetics, equilibria, thermodynamics and electrochemistry. F, S, Su.
- 299 Introduction to Research.** (1) (Prereq: Chemistry 112/112L) This course is a basic introduction to the utilization of library resources, electronic resources and journals in research. Search techniques as well as critical evaluation of the material obtained are discussed as it relates to developing a new project, or reviewing the current status of research in a given topic. Exposure to ongoing research projects within the department is integral to this course. F.
- 301 Workshop Leader Training.** (1) (Permission of instructor and acceptance into the department of chemistry workshop leader program) This course focuses

(Chemistry)

on the preparation of leaders for workshops in chemistry. Learning theory, group dynamics, pedagogy, and student development as they apply to chemistry workshops are covered. The course is also used to review workshop and related course materials. Enrollment in this course at least once is a requirement for all chemistry workshop leaders. F.

321 Quantitative Analysis. (3) (Prereq: Chemistry 112/112L) (Coreq: Chemistry 321L) Theory and practice of "wet" analytical methods including statistics, volumetric analysis, simple and coupled aqueous equilibria, including spreadsheet analysis and simulation methods. Fundamentals of spectrophotometry and potentiometry. F.

321L Quantitative Analysis Laboratory. (1) (Coreq: Chemistry 321) The practice and application of "wet" analytical methods including solution preparation, volumetric, spectrophotometric and potentiometric methods. F.

331 General Organic Chemistry I. (3) (Prereq: Chemistry 112/112L) (Coreq: Chemistry 331L) Nomenclature, synthesis, and reactions of carbon compounds. Three lecture hours per week. F, S, Su.

331L General Organic Chemistry Laboratory I. (1) (Prereq or Coreq: Chemistry 331) A survey of laboratory methods of organic chemistry. Three laboratory hours per week. F, S, Su.

332 General Organic Chemistry II. (3) (Prereq: Chemistry 331/331L) (Coreq: Chemistry 332L) A continuation of Chemistry 331. Three lecture hours per week. F, S, Su.

332L General Organic Chemistry Laboratory II. (1) (Prereq: Chemistry 331L) (Coreq: Chemistry 332) Laboratory exercises to accompany Chemistry 332. Three laboratory hours per week. F, S, Su.

351 Biochemistry I. (3) (Prereq: Chemistry 332/332L) (Coreq: Chemistry 351L) Three 1-hour lectures. Structure and function of amino acids, peptides, and proteins. Enzyme kinetics and mechanisms. Membrane structure and function. Metabolism principles glycolysis, tricarboxylic acid cycle, electron transport, and oxidative phosphorylation. Carbohydrates and fatty acid metabolisms. Photosynthesis. F.

351L Biochemistry Laboratory I. (1) (Coreq: Chemistry 351) This course covers experiments designed to reinforce those topics covered in the lecture. Protein analysis and purification, enzyme activity determination, lipid extraction and analysis, and electrophoretic analyses. F.

352 Biochemistry II. (3) (Prereq: Chemistry 351/351L) (Coreq: Chemistry 352L) Three 1-hour lectures. Structure and function of mononucleotides, amino acid and nucleotide metabolism. Lipid and amino acid synthesis. Organization, replication, repair and expression of DNA. Viruses, receptors and information transfer. Biotechnology methods and applications of DNA restriction, sequencing, cloning and probing. S.

(Chemistry)

- 352L Biochemistry Laboratory I.** (1) (Prereq: Chemistry 351 and 351L) (Coreq: Chemistry 352) This course covers experiments designed to reinforce those topics covered in the lecture: protein synthesis, nucleic acid extractions, and electrophoretic analyses. S.
- 398 Junior Chemistry Seminar.** (1) (Prereq: Chemistry 299) This course covers oral and written presentations of literature research papers. Review of library and on-line searching in bibliography development. Critical review of peer manuscripts and presentations. Career planning and management. F.
- 399 Independent Study.** (1-6) (Prereq: Permission of instructor and approved contract) Directed study and/or research on specific topics. F, S, Su.
- 405 Principles of Physical Chemistry.** (3) (Prereq: Chemistry 112, Physics 202 or 212, Math 160) This course covers the fundamental principles of chemical and physical changes as related to bulk properties and molecular structure, especially as they are related to biochemical processes. Topics are: gas properties, kinetics, thermodynamics, equilibrium quantum chemistry, spectroscopy and statistical thermodynamics. F, odd years.
- 411 Inorganic Chemistry.** (3) (Prereq: Chemistry 441 or permission of instructor) Concepts and models in inorganic chemistry. This course includes as its core atomic structure and the periodic table, localized bonding, hydrogen bonding, and weak interactions. Specific topics such as chemistry of coordination compounds, organometallic chemistry and bioinorganic chemistry are also included to fit the particular needs of the students taking this course. S, alternate years.
- 411L Inorganic Laboratory.** (1) (Coreq: Chemistry 411) Synthesis and characterization of selected inorganic compounds. This experimental work supplements the theoretical material presented in Chemistry 411. S, even years.
- 422 Instrumental Analysis.** (2) (Prereq: Chemistry 321/321L) (Coreq: Chemistry 422L) Two lectures per week. Theory and applications of instrumental methods of analysis. Electrochemical methods, spectroscopy, chromatographic methods, resonance methods and mass spectroscopy are studied. The experiments to be performed are tailored to fulfill the needs of the different areas of emphasis with in the chemistry program. S.
- 422L Instrumental Analysis Laboratory.** (2) (Prereq: Chemistry 321 and 321L) (Coreq: Chemistry 422) (Writing Intensive) Experiments are performed that are project-based. Successful completion of these projects generally involves the use and mastery of several instruments discussed in lecture. Two three-hour laboratories per week. S.
- 433 Advanced Organic Chemistry.** (2) (Prereq: Chemistry 332/332L) The course supplements and extends the knowledge base of Organic Chemistry 331-332. The subject matter includes a look at some general methods used to study mechanistic pathways and how the data obtained can be interpreted to deduce the accepted mechanisms for selected types of reactions. Also included is a study of synthetic organic reactions and their applications as well as a look at methods for determining the structures of unknown organic compounds. F.

(Chemistry, Communication)

- 433L Advanced Organic Chemistry Laboratory.** (2) (Coreq: Chemistry 433) The experiments and assignments supplement the materials presented in Chemistry 433 and include the study of mechanisms, syntheses, and identification of identification of unknown compounds and mixtures. F.
- 441 Physical Chemistry I.** (3) (Prereq: Mathematics 161 or 260, Chemistry 112, Physics 202 or 212) (Coreq: Mathematics 260, Chemistry 441L) Theories and laws relating to chemical and physical changes including gas properties, thermodynamics, kinetic theory of gases and kinetics of chemical reactions. F.
- 441L Physical Chemistry I Laboratory.** (1) (Prereq: Chemistry 321) (Coreq: Chemistry 441) Applications of physical chemistry techniques. F.
- 442 Physical Chemistry II.** (3) (Prereq: Chemistry 441) (Coreq: Chemistry 442L) Theories and laws relating to molecular structure including quantum chemistry, statistical thermodynamics, determination of molecular structure and electric and magnetic properties of molecules. S.
- 442L Physical Chemistry II Laboratory.** (1) (Prereq: Chemistry 441L) (Coreq: Chemistry 442) Application of physical chemistry techniques for the determination of molecular structure. S.
- 450 Principles of Biochemistry.** (3) (Prereq: Chemistry 331 and permission of instructor) (Coreq: Chemistry 450L) A survey of the fundamental principles of biochemistry. Three hours of lecture per week. S.
- 450L Principles of Biochemistry Laboratory.** (1) (Prereq: Chemistry 331/331L and permission of instructor) (Coreq: Chemistry 450) The laboratory demonstrates the topics and principles presented in the lecture. Three hours laboratory per week. S.
- 499 Directed Undergraduate Research.** (1-6) (Prereq: A contract must be approved by the instructor and the department chair by the time of registration) Structured undergraduate research projects conducted with faculty direction and participation. Projects explore chemical or related problems using the scientific method. One conference and no less than 5 lab research hours per week. F, S, Su.

COMMUNICATION (COMM)

- 101 Introduction to Communication.** (3) This course introduces students to the study of communication, its history, theories and principles and serves to improve critical thinking, perception and communicative awareness.
- 140 Oral Communication.** (3) (=Theater 140) The theory and practice of interpersonal, small group, and public oral communication, to include performance by students.
- 274 Organizational Communication.** (3) (Prereq: Communication 101) Examines communication systems and communication flow in formal organizations and deals with communication climate, leadership, work control systems networks and performance enhancement and evaluation.

(Communication)

- 302 Communication Law and Ethics.** (3) (Prereq: Communication 101) This is a course in legal cases and ethical issues as they apply to communication problems, precedents and negligence or oversight in corporations and organizations.
- 304 Gender Communication.** (3) Gender Communication inquires into the connections among four areas of study: gender, identity, culture, and communication. Students explore the multiple ways that gender roles are created and sustained through communication in such contexts as families, schools, the workplace, and the media.
- 311 Health Communication.** (3) This course provides students with an overview of the various areas of study within the health communication field. Students will explore multiple communication issues relevant to health including language, information processing, the social construction of health and illness, patient-doctor communication, and the mutually influential relationships among health care professionals, patients, friends and family members, and cultural institutions.
- 334 Small Group Communication.** (3) (=Theater 334) (Prereq: Theater/Communication 140 or English 390) The study and practice of small group communication through creative approaches to problem solving.
- 341 Advanced Public Speaking.** (3) (=Theater 341) (Prereq: Theater/Communication 140) Analysis and advanced applications of public discourse and discursive strategies with emphasis on speech structure and delivery methods.
- 399 Independent Study in Communication.** (3) Designed for advanced and self-motivated students. Communication 399, Independent Study in Communication, allows students to conduct scholarly work in an academic area not offered in the traditional course format. The course will result in a document, performance, or body of work that reflects the student's research or summarizes the knowledge synthesized during a structured, sequenced order of study.
- 401 Communication Theory.** (3) (Prereq: Communication 101 and Communication 274 and Junior standing) This seminal course for the minor addresses communication theory and examines the roots of communication in the social and behavioral sciences and exposes students to both qualitative and quantitative studies as they apply to various communication theories.
- 402 Research and Thesis.** (4) (Prereq: Communication 101, 274 and 401). This is the capstone course for the major and introduces students to research methods used to study communication. Students are engaged in discussions about and applications of research methods using experimental, survey, message analysis and ethnographic approaches. The culmination of the course is in the development of a thesis based on the collection of data (qualitative and quantitative) and interpretation of results.
- 410 Special Topics in Communication.** (3) Special topics in communication is an active, intensive seminar that allows students to explore, on an advanced

(Communication)

level, a special topic within communication. Special topics include community, communication and health; rhetoric, culture and social change; and gender, performance and identity; among others.

495 Communication Internship. (3) (Prereq: Communication 101 and Communication 274 and at least 90 credit hours) The guided internship requires 120 hours of on-site work, a journal, and a final paper. The purpose of the course is to provide students with practical application opportunities for their knowledge and skills, to introduce them to local and regional employers in their field of study, and to enhance networking opportunities.

(Computer Science)

COMPUTER SCIENCE (CSCI)

- 105 Introduction to Computer Applications.** (3) (Computer Usage) A survey course designed for students majoring in areas other than Computer Science or those with no computer experience; course includes an overview of computer hardware with an emphasis on Windows, word processing, spreadsheets, database applications and the Internet. F, S, Su.
- 106 Advanced Computer Applications.** (3) (Computer Usage) (Prereq: Computer Science 105 or permission of instructor) Advanced computer applications with emphasis on integrating and linking user software applications. This course also includes online collaboration skills, advanced email concepts and Internet. F, S.
- 110 Enterprise Business Applications.** (3) (Prereq: Business or Computer Science Major, or permission of instructor) A course designed for students in the College of Business or Computer Science; course covers beginning and intermediate topics in spreadsheets (MS-Excel), MS-PowerPoint, website development with Dreamweaver, data collection on the web, and creation of an online student senior portfolio. F, S, Su.
- 111 Programming in BASIC.** (3) (Computer Usage) Computer programming in the BASIC language. F, Su.
- 120 Introduction to Web Page Design.** (3) This course is an introductory course in web design that provides a foundation for using the imagery of a web page for communicating ideas across the internet. Topics include the utilization of graphic editing and web development software, basic HTML coding, simple graphic editing, web ethics including design and accessibility issues, and publishing WEB pages.
- 130 Introduction to Computer Science.** (3) (Computer Usage) (Prereq: Mathematics 130 or higher, or currently enrolled in Mathematics 130 or higher) Designed as an introduction to Computer Science for non-majors; provides a comprehensive overview of the field of Computer Science in areas such as machine architecture, data storage, data manipulation, operating systems, algorithms, programming languages, data structures, database structures, computational complexity, and artificial intelligence; includes a brief introduction to programming. S.
- 140 Introduction to Algorithmic Design I.** (3) (Computer Usage) (Students are required to have a personal notebook computer for this course) (Prereq: Mathematics 130 or higher, or currently enrolled in Mathematics 130 or higher) (Coreq: Computer Science 140L) An introduction to problem solving and algorithmic design methodology using a modern object-oriented high-level programming language. Topics include problem solving techniques, high-level structures, subprograms and modularity, simple, aggregate and user-defined data types, and fundamental algorithms. Program clarity, good coding style and effective documentation are stressed. Three lecture hours per week. F, S, Su.

(Computer Science)

- 140L Introduction to Algorithmic Design I Laboratory.** (1)(Coreq: Computer Science 140) Laboratory demonstrates the topics and principles presented in the lecture. F, S, SU.
- 150 Introduction to Algorithmic Design II.** (3)(Computer Usage)(**Students are required to have a personal notebook computer for this course**) (Prereq: Grade of C or above in Computer Science 140 and 140L) (Coreq: Computer Science 150L) A continuation of Computer Science 140. Topics include algorithmic design; complexity analysis; abstract data types and encapsulation; basic data structures and their applications, including stacks, queues, linked lists, binary trees, and hash tables; sorting and searching; high-level programming topics include dynamic memory allocation, classes, objects, inheritance, and recursion. Three lecture hours per week. F, S.
- 150L Introduction to Algorithmic Design II Laboratory.** (1) (Prereq: Grade of C or above in Computer Science 140 and 140L) (Coreq: Computer Science 150) Laboratory demonstrates the topics and principles presented in the lecture. F, S.
- 203 Web Development Using PHP.** (3) (Prereq: MATH 130) A thorough introduction to web development using PHP. The course also includes supporting topics from XHTML, JavaScript, Cascading Stylesheets, AJAX and Section 508 Website Accessibility. F.
- 207 Programming in C++.** (3) (Prereq: Grade of C or above in Computer Science 150 and 150L) Computer programming in the C ++ language. Offered on demand.
- 208 Programming in Visual Basic.** (3) (Prereq: Grade of C or above in Computer Science 150 and 150L) An introduction to programming with Visual Basic including Windows interface controls, Active X controls, and database access using Active X objects. S, odd years.
- 209 Programming in Java.** (3) (Prereq: Computer Science 140 and 150) Students will learn to program in the Java programming language. Topics include inheritance, threads, graphics, network programming, and Web-programming . F, even years
- 210 Computer Organization and Programming.** (3) (Prereq: Grade of C or above in Computer Science 140 and Mathematics 174) Logical basis of computer structure, machine representation of information, flow of control, instruction codes, arithmetic and logical operations, indexing, indirect addressing, input-output, sub-routines, linkages, macros. Interpretive and assembly systems, and pushdown stacks. F, S.
- 220 Data Structures.** (3) (Prereq: Grade of C or better in Computer Science 150 and 150L and Mathematics 174) A continuation of Computer Science 150 and 150L, topics include analysis of algorithms, with emphasis on computational complexity and advanced algorithms including self adjusting trees, hashing, graphs, sorting, searching, hashing methods, and greedy algorithms. F, S.

(Computer Science)

- 280 Strategies in Problem Solving.** (1) (Prereq: Computer Science 150) The focus of this course is on practical problem solving in both individual and team settings. A variety of problems that require different types of solutions and algorithms will be presented, as well as problems to be solved. Students will also develop programming and teamwork techniques in a competition setting while gaining proficiency in applying a systematic approach to problem solving. F, S.
- 305 Ethics in Computer Science.** (1) (Prereq: Academic standing above Freshman) Provides real-world experiences that stimulate discussion of ethical issues in the technical work place. Topics include: ACM Code of Ethics, general moral responsibilities, privacy security, copyright and ownership agreements, computer crimes, and personal ethics. Class format presents case studies of current news events regarding computer ethics. F, S.
- 310 Introduction to Computer Architecture.** (3) (Writing Intensive) (Prereq: Grade of C or above in Computer Science 150, 210 and Mathematics 174) An introduction to the fundamental aspects of a computer system's structure and behavior; binary arithmetic, combinational logic, circuit design, instruction sets, register operations and flip-flops, control system functions, memories, interrupt structures, processors, and performance measures will be covered. F.
- 330 Software Engineering I.** (3) (Prereq: Grade of C or better in Computer Science 220) Introduction to the software engineering design process with emphasis on the technical knowledge and skills that a software engineer must possess to design quality software. Topics include concepts of software development, requirements and specification, design and coding, and testing. System analysis and design methodologies are used in team projects. F.
- 335 Software Project Management.** (3) (Prereq: Computer Science 330 and Statistics 201/201L) This course will cover tools and techniques in software project management based on the Project Management Body of Knowledge from the Project Management Institute. S.
- 360 Numerical Calculus.** (3) (=Mathematics 460) (Prereq or Coreq: Mathematics 260 and a working knowledge of programming language). Introduction to numerical methods, interpolation, quadrature, solution of linear and nonlinear systems or equations, error analysis. Two lectures and two laboratories per week. S.
- 370 Data Communication Systems and Networks.** (3) (Prereq: Grade of C or above in Computer Science 310) Communications environment, communications system components, networks, network management and distributed environment, local networks. S.
- 380 Introduction to the Analysis of Algorithms.** (3) (Writing Intensive) (Prereq: Grade of C or above in Computer Science 220) An introductory course in the analysis of algorithms, with emphasis on computational complexity including practical applications and the analysis of specific problems and algorithms, course investigates most commonly used algorithm design techniques and also introduces the notion of "hard" problems and approximate solutions. S, even years.

(Computer Science)

- 385 Introduction to Information Systems Security.** (3) (Prereq: Junior level status or permission of instructor) Comprehensive survey of security policies, models and mechanisms for confidentiality, integrity, and availability. Topics include computer communications, operations, personnel, privacy issues, management and legal and ethical issues. F, odd years.
- 390 Theory of Computation.** (3) (Prereq: Grade of C or above in Computer Science 220 and 310) General models of computation, formal languages and automata theory and algorithmic unsolvability. F, odd years.
- 399 Independent Study.** (1-3) (Prereq: Permission of instructor and approved contract) Directed study and/or research on specific topics. F, S, Su.
- 409 Middleware and E-Commerce.** (3) (Prereq: Computer Science 150, Sophomore standing, and Information Systems Option) The purpose of this course is to familiarize the student with XHTML and middleware development and the architecture of E-Commerce systems. F.
- 410 Operating Systems.** (3) (Prereq: Grade of C or above in Computer Science 220) Basic concepts and terminology of operating systems, I/O and interrupt structures, system structures, processor scheduling, processes and process synchronization, deadlocks, memory management, and other concepts. F.
- 415 UNIX Systems Administration and Systems Programming.** (3) (Prereq: Grade of C or better in Computer Science 220) The course covers introduction to UNIX and UNIX derivatives (such as LINUX) and associated standards for systems programming. Programming exercises are used to demonstrate creation of processes, interprocess communication, threads programming and network programming. Administration objectives include installing and configuring a UNIX based workstation, configuring security, networking and network services as well as diagnostics and troubleshooting of basic user services. A solid background in software engineering principles and OS design are expected. S, even years.
- 425 Database Systems Design.** (3) (Prereq: Grade of C or above in Computer Science 220) An introduction to the theory and methodology for database design and implementation, the relational model, relational algebra, relational calculus, and E/R modeling are introduced, as well as concepts of normalization, data independence, and database languages. Design encompasses issues from the conceptual model to the physical model. F.
- 430 Organization of Programming Languages.** (3) (Prereq: Grade of C or above in Computer Science 220) Formal language concepts, statement types, control structures, compilation vs. interpretation, list processing and string manipulation languages. S.
- 440 Introduction to Computer Graphics.** (3) (Prereq: Computer Science 220) An overview of the elements of 2D and 3D graphics, includes topics on raster graphics, geometrical transformations, parallel and perspective projections for 3D viewing, interaction techniques, representation of curves and surfaces, solid modeling and topics on visual realism. S, odd years.

(Computer Science))

- 450 Principles of Compiler Design.** (3) (Prereq: Grade of C or above in Computer Science 220 and Computer Science 310) Introduction to programming language structure, lexical analysis, syntax analysis, code generations, error repair, and optimization. F.
- 460 Algorithms in Bioinformatics.** (3) (Prereq: Senior level status or permission of instructor) (Coreq: basic knowledge of Linear Algebra in Calculus. Solid background in Programming, Data Structures, and design of Algorithms.) Introduction to the main algorithms used in Data Mining of Genomic sequences and evaluation of gene expression data from Micro Arrays. Topics include Dynamic programming, Hidden Markov Models, Support Vector Machines, Clustering algorithms, and Singular Valve Decomposition. S.
- 480 Introduction to Artificial Intelligence.** (3) (Prereq: Computer Science 220) Covers the fundamentals of Artificial Intelligence (AI); topics and techniques for analyzing and developing intelligent systems; programming in an AI language. Coverage may include applications in areas such as expert systems, neural networks, fuzzy logic, robotics, etc. F, even years.
- 485 Introduction to Robotics.** (3) (Prereq: Computer Science 220) An introduction to the fundamentals of mobile robotics including robot hardware, sensors, obstacle avoidance, navigation, mapping, path planning and robot architectures. F, odd years.
- 490 Software Engineering II.** (3) (Prereq: Grade of C or better in Computer Science 330 and 425) This course is a continuation of the software engineering design principles introduced in Computer Science 330. Topics include project requirements, design specifications, testing, project management and group dynamics. Student will design, code, test and implement an information system as part of a team project. S.
- 497 Computer Science Internship.** (1-3) (Prereq: Junior level status, GPA of 2.5 in Computer Science, and grade of C or better in CSCI 220) Supervised work experience of at least 15 hours per week for 12 weeks. Program format is approved by the area director. A written final paper is required. F, S, Su.
- 498 Cooperative Education.** (1-3) (Prereq: Computer Science major with at least sophomore level status) Cooperative full-time work study arrangement among the University, the business or industry and the student. Arrangements are made in consultation with the department chair. The course may be repeated for a total of 6 hours of credit. F, S, Su.
- 499 Topics in Computer Science.** (1-3) (Prereq: Permission of instructor) Special projects and recent developments in Computer Science selected to meet current faculty and student interest. Offered on Demand.

(Criminal Justice, Economics)

CRIMINAL JUSTICE (CRMJ)

- 341 Sociology of Crime.** (3) (= Sociology 353) Social factors in the development, identification and treatment of criminals.
- 351 Sociology of Juvenile Delinquency.** (3) (= Sociology 350) Social factors in the development, identification and treatment of delinquents.
- 421 The Judicial Process.** (3) A study of the growth of law, the law-making function of the courts, the structure and organization of federal and state courts, the procedures involved in civil and criminal cases, and the problems and proposals for reform in the administration of justice.

ECONOMICS (ECON)

- 101 Survey of Economics.** (3) Designed to familiarize non-business majors with basic macro- and microeconomics models and selected economic problems. Not open to majors in Business Administration and Economics.
- 110 Consumer Economics.** (3) Designed to acquaint the student with the money management concepts necessary to exercise intelligent control over income and expenditures, topics considered include: budgeting, consumer protection, taxes, credit sources, types of insurance, real estate, stocks, bonds, estate planning and other uses of funds. Not open to students who have received credit for Business Administration 110.
- 201 Macroeconomics.** (3) (Prereq: Success Seminar 195 for business majors or equivalent for all majors, Mathematics 130, and completion of 24 semester hours) Macroeconomic analysis, basic definitions and concepts, mechanics of pricing fundamentals of American capitalism, national income economics, income and employment theory, and monetary and fiscal policy. F, S.
- 202 Microeconomics.** (3) (Prereq: Economics 201, and completion of 24 semester hours) Microeconomic analysis, theory of the firm, cost and output determination, marketing pricing, income distribution, and international economics. F, S.
- 301 Intermediate Macroeconomic Theory.** (3) (Prereq: grade of C or above in Economics 201 and 202) An advanced view of the macroeconomy. Role of inputs and technology in economic growth, study of differing schools of thought with respect to macroeconomic behavior. F.
- 302 Intermediate Microeconomic Theory.** (3) (Prereq: grade of C or above in Economics 201 and 202) Microeconomic study of how consumers and firms make choices. Consumer theory is used to derive market demand, theory of the firm to derive market supply, and game theory to analyze interaction among agents. S.
- 310 Financial Institutions and Markets.** (3) (=Business Administration 462) (Prereq: Grade of C or above in Economics 202 and Business Administration 363 and admission to the Wall College of Business) Principal institutions and

(Economics)

markets comprising the financial system; their roles in short-term, long-term and equity financing, interest rate determination and capital formation; interrelationships between domestic and international financial markets; government policy objectives and regulations as influences on the financial system. F, S.

- 313 History of Economic Thought.** (3) (Prereq: Grade of **C** or above in Economics 101 or Economics 202) Development of economic thought over time; comparison of theories of great economists from Adam Smith to John Maynard Keynes and their schools of thought, including classical economics, neoclassical economics, and heterodox economic thought. F.
- 320 Environmental and Natural Resource Economics.** (3) (Prereq: Grade of **C** or above in Economics 101 or Economics 202) Interrelationships between the economy and the environment. Study of how economic activities affect the environment, why we may allow more environmental harm than is optimal and how such environmentally harmful activities can be regulated. Resource economics, environmental regulations, monitoring and enforcement, clean technology and global agreements. S.
- 321 Government and Business.** (3) (Prereq: Grade of **C** or above in Economics 101 or Economics 202) Examination of issues that confront government and business, allowing students to take sides and defend their positions in debate/discussion format. Topics include: social security privatization, social responsibility of businesses, the minimum wage, double taxation of dividends, and the government's role in the regulation of business. S.
- 326 Managerial Economics.** (3) (=Business Administration 426) (Prereq: Economics 101 or Economics 201 and 202) Study of the theory of the firm, elasticity, product and cost, market concentration and integration. Topics include differing market environments, market power, pricing strategies, market failure, and subsequent government intervention. Non-economics majors only. S.
- 330 Economics of Leisure and Tourism.** (3) (Prereq: Grade of **C** or above in Economics 101 or Economics 202) Economic theory is used to explain the demand for leisure and how people make decisions regarding leisure. Economic fundamentals of the tourism industry, development of tourist destinations, tourism in the Grand Strand area and tourism in the global economy. S.
- 331 Economics of Sports.** (3) (Prereq: Grade of **C** or above in Economics 101 or Economics 202) An economic analysis of participatory sports and amateur and professional team sports. Topics include professional sports franchises as business enterprises, economics of sports stadiums, economics of professional sports labor markets, impact of Title IX on collegiate athletic programs, and economic impact of professional team sports and participatory sports on the Grand Strand economy. F.
- 332 Economics of Human Resources.** (3) (Prereq: Grade of **C** or above in Economics 101 or Economics 202) Economic analysis of the strategic aspects of human resource management at the firm and public policy levels. Focus on economic forces that influence hiring standards, employment, worker productivity, training programs, wages, and working conditions in the United States. Topics

(Economics)

include the decline of job security, rise in educational and training requirements, managerial compensation and the use of incentive packages, impact of technology, trade, and unionization on employment and wages. Public policy issues include income inequality, safety and health, labor market discrimination, and the minimum wage. F.

335 Intermediate Economics. (3) (Prereq: Grade of C or above in Economics 101 or Economics 201 and Economics 202) A survey of intermediate topics in both micro- and macro-economics. Topics include consumer choice, indifference curve analysis, competitive markets and imperfect competition, comparative advantage, and monetary and banking policy. Non-economics majors only. F.

351 International Economic Policy. (3) (Prereq: Grade of C or above in Economics 101 or Economics 202) Study of international trade issues and policy and their impact on workers, firms, and governments; role of international investment, foreign exchange markets, and international migration. F.

352 Economics of Development. (3) (Prereq: Grade of C or above in Economics 101 or Economics 202) Applies economic models to development and developing countries; study of institutions and international organizations that aid or hamper development; the role of poverty, education, and the environment in development. S.

399 Independent Study. (3) (Prereq: 54 or more hours) Written contract between student and instructor, approved by the Dean. A maximum of 15 hours may be taken.

450 Labor Theory. (3) (Prereq: Grade of C or above in Economics 301 and 302) Economic analysis of labor markets and the institutions that have evolved to facilitate exchange. Topics include the demand for labor, labor supply, investment in human capital, labor unions and collective bargaining, distribution of personal earnings, and various measures of employment and unemployment in the labor market. F.

451 International Economic Theory. (3) (Prereq: Grade of C or above in Economics 351) Expanded discussion of the motivation for international trade. Advanced and intuitive explanations of trade policy and international finance models. F.

460 Introduction to Econometrics. (3) (Prereq: Grade of C or above in Economics 301 and 302) Mathematical modeling used to understand and explain economic relationships and theory. Topics include econometric, mathematical modeling, economic forecasting, generalized linear models, and categorical data analysis. S.

472 Economics of Aging. (3) (Prereq: Enrollment in Certificate of Gerontology Program and permission of instructor) The economic determinants of population aging and the challenges it creates for public policies. Topics include trends in retirement, retirement planning, the major provisions of the Social Security Act, various types of pension plans provided by employers, aging and gender, and various health, disability, and economic well-being issues of older Americans. S.

(Economics, Education)

- 490 Senior Research Seminar.** (3) (Prereq: Grade of **C** or above in Economics 301 and 302) Capstone course intended to teach students how to conduct original research in economics. Guidance and practice in formulating economic hypotheses, gathering data, analyzing the data, and effectively communicating the results orally and in writing. S.
- 495 The Service Learning Experience in Economics.** (3) (Prereq: Grade of **C** or above in Economics 301 and 302) Group research projects involving service learning and community service coordinated through the Center for Economic and Community Development of the Wall College of Business. Projects may include: economic impact study, cost/benefit analysis, survey analysis, applied econometric analysis, and modeling. S.
- 497 Internship in Economics.** (3) (Prereq: 54 or more hours, minimum GPA of 2.5, and approval of Associate Dean) Supervised work experience of at least 15 hours per week for 12-14 weeks. Internship format must be approved by internship director. A maximum of 6 credit hours may be taken.

EDUCATION (EDUC)

- 110 Introduction to Teaching in Elementary Education.** (3) This course is designed to acquaint students with the role of the teacher and the nature of the teaching profession and to assist students in their personal and professional development as elementary teachers. Topics addressed include an overview of program requirements for Spadoni College of Education majors and the teaching profession: curriculum, instruction, environment, students, resources, trends and pressures facing elementary educators today. Included are observations and activities in various field placement.
- 115 Introduction to Teaching in Early Childhood.** (3) An introduction to teaching young children in early childhood centers (pre-kindergarten through grade three). Observation and activities within cooperating schools (teaching centers) are included. The course is a prerequisite for admission to the professional program in education for all early childhood majors and should be taken, if possible, during the freshman year.
- 116 Introduction to Teaching in Special Education.** (3) A survey course with an overview of the field of special education and different areas of exceptionalists with an emphasis on learning disabilities and current trends. Basic course for those beginning study in the field of special education.
- 117 Introduction to Teaching Middle Grades.** (3). This course is designed to acquaint students with the role of the teacher and the nature of the teaching profession and to assist students in their personal and professional development as middle grades teachers. Topics addressed include an overview of program requirements for Spadoni College of Education majors and the teaching profession: curriculum, instruction, environment, students, resources, trends and pressures facing middle level educators today. Included are observations and activities in middle school field placements.

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- 204 Computer Technology and Instructional Media.** (3) (Computer Usage) A hands-on laboratory approach for developing computer literacy skills and for developing skills necessary to use instructional technology to enhance classroom instruction. Foundations of the electronic portfolio required of all education majors is also included.
- 215 Schools & Diversity.** (3) To be required for majors in Early Childhood Education, Elementary Education, Middle Grades Education, and Special Education. This course is designed to acquaint pre-service teachers with diversity issues in today's classrooms. In addition to investigating the needs of students with disabilities and specific health issues, the roles that such factors as race, class, gender, language proficiency, and cultural background play in the educational process will be explored. Methods of instruction and evaluation designed to meet the needs of a diverse student population will be addressed. The main goal of the course is to help future teachers discover their own attitudes and values as they pertain to diversity and develop the knowledge and skills that will enable them to create inclusive classroom environments and to provide equal educational opportunities for all students.
- 275 Dynamics and Diversity in American Public Education.** (3) This course considers the foundation aspects of American education: the school's role in society; the historical heritage of schools; the European legal/political/religious impact on American curriculum; the laws controlling state school systems; the legal impact of Supreme Court decisions on educators and students; and an introduction to community, family, and school interactions.
- 276 Early Childhood Foundations (3) (Prereq: EDUC 115).** Course is required for a major. An overview of the historical, philosophical, legal and practical aspects of early childhood education.
- 335 Introduction to Educational Psychology.** (3) Psychology of learning, learning theories, stages of development as applied to the learner in the classroom, with attention given to research into learning problems, management, as well as measurement of learning and least restrictive environments for learning.
- 336 Introduction to Human Growth and Development.** (3) (Writing Intensive) An investigation of various patterns of intellectual, social, emotional, and physical growth of learners from prenatal through adult periods with a focus on developmental applications in educational settings.
- 399 Independent Study.** (1-3)
- 402 Special Topics.** (1-3)

EDUCATION - EARLY CHILDHOOD (EDEC)

- 300 Assessment, Evaluation, and Reporting Progress.** (3) This course is designed to prepare early childhood candidates to use appropriate assessments to evaluate students' progress and guide instructional planning, and interpret and report assessment results to families. A variety of assessment techniques will be emphasized.

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- 314 Language and Emergent Literacy.** (3) (Prereq: Admission to Portal I in Teacher Education) This course provides knowledge of language development and emerging literacy for all children from birth to grade 3, including English Language Learners. Special emphasis will be given to children ages 3-5.
- 325 Guiding Young Children's Behavior and Classroom Management** (3) Course is required for a major. Study of appropriate, effective principles and techniques for guiding behavior and managing early childhood classrooms.
- 332 Child Development: The Young Child.** (3) (Writing Intensive) The study of intellectual, physical, social and emotional development for the total human life span with a special emphasis on prenatal through grade three, within an ecological context. Critical thinking, creative expression and diagnosis/assessment are emphasized.
- 338 Creative Experiences for Young Children.** (3) (Prereq: Admission to Portal I in Teacher Education) This course is designed to develop candidates' understanding of young children's creative expression through art, music, movement, play, and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as how to select appropriate instruction materials.
- 339 Early Childhood Programs and Curriculum.** (3) (Prereq: Admission to Portal I in Teacher Education) This course is designed to develop an understanding of early childhood programs and curriculum, philosophical orientations that guide program and curriculum development in early childhood education - Pre-kindergarten through grade 3 - and developmentally appropriate practice.
- 340 Early Childhood: Field Experience II.** (3) (Prereq: Admission to Portal I in Teacher Education) Field placement in a pre-kindergarten classroom where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing an understanding of children's development and implications of development for program planning for both typical and atypical children.
- 376 Integrated Math/Science/Social Studies I.** (3) This course will include theoretical and practical aspects of cognitive and social development for pre-kindergarten and kindergarten children emphasizing an integrated approach to planning and implementing developmentally appropriate teaching-learning experiences, and determining appropriate curriculum content in science, mathematics, and social studies.
- 377 Strategies for Teaching and Learning with Literature.** (3) This methods course focuses on developing appropriate instructional strategies for utilizing literature to integrate the curriculum.
- 379 Early Childhood: Field Experience III.** (3) (Prereq: Education/Early Childhood 340) Field placement in a kindergarten classroom where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing an increased understanding of children's development and implications of development for program planning for both typical and atypical children

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- 420 Integrated Math/Science/Social Studies II.** (3) This course will include theoretical and practical aspects of cognitive development for children in grades 1 through 3 emphasizing an integrated approach to planning and implementing developmentally appropriate teaching-learning experiences, and determining appropriate curriculum content in science, mathematics, and social studies.
- 421 Child, Family, Community, Teacher Relations.** (3) This course will prepare teacher candidates to work effectively in building relations with children, families, and communities through family and community involvement, conferencing, formal and informal communications, and knowledge of families and community served.
- 422 Early Literacy.** (3) This course will prepare candidates to understand the foundations of literacy development and the learning principles and instructional strategies necessary to meet the individual needs of beginning readers and writers. Special emphasis is given to children in grades 1 through 3.
- 423 Early Childhood: Field Experience IV.** (3) (Prereq: Education/Early Childhood 379) Field placement in a primary grade (1-3) classroom where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing deeper understanding of children's development and implications of development for program planning for both typical and atypical children.
- 466 Internship in Elementary School (Early Childhood).** (12) F, S

EDUCATION - ELEMENTARY (EDEL)

- 314 Language and Emergent Literacy.** (3) (Prereq: Admission to the Professional Program in Teacher Education) This course is designed to provide candidates with the skills, knowledge, and dispositions to teach students who are in the beginning stages of acquisition of literacy. Special emphasis is given to the dispositions demonstrated by exemplary teachers of literacy, the development of principles of emergent literacy, and the application of these principles in instruction. Topics include balanced reading, family and community influences on literacy, and continuous assessment to improve instruction.
- 341 Elementary School Curriculum and Organization.** (3) (Prereq: Admission to the Professional Program in Teacher Education) A study of elementary education in America, (2-6). This course addresses the history and organization of elementary schools and their curriculum. Other topics include classroom management and organization, and assessment/evaluation of student learning.
- 343 Instructional Theory and Practice-Elementary Education.** (3) (Writing Intensive) (Prereq: Admission to the Professional Program in Teacher Education and completion of Education/Elementary 341) Application of general teaching models as they apply to subject matter in the elementary school. The student is expected to demonstrate a variety of instructional competencies during supervised teaching situations in simulated settings and in school classrooms. Clinical experiences in public schools are included.

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- 381 Teaching of Mathematics - Elementary Education.** (3) (Prereq: Admission to the Professional Program in Teacher Education) A study of methods, techniques, and materials as they relate to instruction in the field of mathematics in the elementary grades.
- 386 Teaching of Language Arts and Social Studies - Elementary Education.** (3) (Prereq: Admission to the Professional Program in Teacher Education) An interdisciplinary approach to the study of language arts and social studies methods and materials in the elementary grades utilizing multicultural contexts.
- 388 Teaching of Science - Elementary Education.** (3) (Prereq: Admission to the Professional Program in Teacher Education) A study of methods, techniques, and materials as they relate to instruction in the field of science in the elementary grades.
- 414 Advanced Issues in Literacy Instruction.** (3) (Prereq: Admission into the Professional Program in Teacher Education) This course is designed to develop the literacy instructional expertise of candidates in elementary education. The emphasis is on the planning-instruction-assessment cycle for various aspects of literacy. Topics include balanced reading, decoding and comprehension, fluency, vocabulary, study skills, and literacy for non-native speakers of English. Candidates are expected to apply their knowledge and skills in a practicum setting. A clinical field experience is included.
- 467 Internship in Elementary School (Elementary).** (12) F, S.
- 471 Standards-Based Assessment.** (3) (Prereq: Admission to the Professional Program in Teacher Education and completion of Education/Elementary 343) This course addresses assessment issues in the elementary school environment. Topics include standards-based teacher accountability, principles of standardized assessment, and teacher-conducted classroom assessment and documentation, with implications for classroom practice. A clinical field experience is included.
- 472 Classroom Management for Diverse Settings.** (3) (Prereq: Admission to the Professional Program in Teacher Education) This course addresses the management and diversity issues in current elementary school classrooms. Topics will include types of management styles, analysis of classroom behavior, effect of diversity on classroom environment, and the application of effective management techniques. Candidates will focus on developing decision-making skills and professional judgements based on appropriate management philosophies. A field experience is included.

EDUCATION - MIDDLE GRADE (EDMG)

- 325 Classroom Organization and Management in Middle Grades.** (3) (Prereq: Admission to the Professional Program in Teacher Education). Study of effective principles and techniques of management in middle level classrooms today. Attention is given to strategies and theories of management of students as

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well as classroom organization to facilitate developmentally appropriate practices in the areas of motivation and management of middle level students. A clinical field placement accompanies this course.

- 334 Adolescent Growth and Development.** (3) (Writing Intensive) An investigation of the various patterns and theories related to intellectual, social, emotional, and physical growth and development of preadolescent and adolescent learners with a focus on developmental applications in education settings.
- 417 Reading in the Middle School.** (3) A study of the reading process and readiness to read as related to the teaching of academic areas found in public schools. Alternate methods of instruction and evaluation of concepts and skill development are presented. A field experience accompanies study in this course.
- 441 Middle School Curriculum and Organization.** (3) Study of the middle level program including the grouping, scheduling, grading, and placement of students; school organization, curriculum and teaching techniques are included.
- 445 Instructional Theory and Practice-Middle School.** (3) Application of general teaching models as they apply to subject matter in the middle school. The student will be expected to demonstrate a variety of instructional competencies during supervised teaching situations in stimulated situations as well as in school classrooms. A significant portion of the course will address proactive and reactive classroom management strategies. Field experiences in public schools are included.
- 468 Internship in Middle Level Teaching.** (12) Supervised teaching experience in the middle grades classroom. Interns will be assigned to field placements for a period of no fewer than 60 instructional days.
- 489 Materials and Methods of Teaching English/Language Arts in the Middle School.** (3) The development of knowledge, skills, and attitudes necessary for instruction in English/Language Arts in the middle grades and for the integration of the areas of the curricular concentration. Standards-based instructional planning, integration of concepts, developmentally appropriate instructional strategies, appropriate assessment techniques, and implementation of planned instructional units will be addressed.
- 490 Materials and Methods of Teaching Social Studies in the Middle School.** (3) Study of methods, techniques, and materials appropriate to the teaching of social studies at the middle school level. Standards-based instructional planning and strategies for effective teaching in the social studies will be analyzed and evaluated using current research. Emphasis will be placed on but not limited to such topics as the cultural approach to the study of history, reciprocal reinforcement among the disciplines, values classification, controversial issues, citizenship education, and the roles of the social studies as a mirror of society or as a change agent for society.
- 491 Materials and Methods of Teaching Science in the Middle School.** (3) Study of methods, techniques, and materials of instruction appropriate to science teaching at the middle level. Students will be expected to

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plan and implement specific lessons utilizing various resources and techniques. Standards-based instructional planning, integration of concepts, developmentally appropriate instructional strategies, appropriate assessment techniques, and implementation of planned instructional units will be addressed.

- 492 Materials and Methods of Teaching Mathematics in the Middle School.** (3) Study of methods, techniques, and materials of instruction appropriate to mathematics education at the middle school level. The student will be expected to plan and implement specific lessons utilizing various resources and techniques. Standards-based instructional planning, integration of concepts, developmentally appropriate instructional strategies, appropriate assessment techniques, and implementation of planned instructional units will be addressed.

EDUCATION - SECONDARY (EDSC)

- 415 Teaching Diverse Learners.** (3) Study of classrooms today as diverse learning environments. Needs and effective teaching strategies as related to diverse learners are explored. Special attention is given to the interdependence of schooling and culture.
- 475 Adolescence and the Learning Process.** (3) An investigation of human growth and development (intellectual, social, emotional and physical) and principles of learning as related to classroom environments. Learning theories and various learner needs are explored as they relate to effective classroom instruction.

EDUCATION - SPECIAL EDUCATION/LEARNING DISABILITIES (EDLD)

- 370 Foundations of Special Education.** (3) This course provides knowledge of basic concepts in special education related to the education of individuals with disabilities. Content includes historical factors, legislation, etiology, characteristics, educational strategies (including existing and emerging technologies), identification procedures, and support services for individuals with disabilities at varied degrees of severity and the impact of disabilities on academic and social/emotional performance.
- 381 Collaborative Practice and Communication for Special Education.** (3) Study of the design and implementation of curriculum programs for individuals with learning disabilities with emphasis on managing and enhancing the instructional environment in both resource and classroom settings; special attention given to working collaboratively with other professionals and parents; the development and use of IEPs, accountability procedures, and documentation requirements are addressed. Clinical experiences in schools are included.
- 388 Methods for Students with Language Learning Disabilities.** (3) An investigation of various elements in the language and social development of individuals with learning disabilities; special focus given to the implementation of effective strategies to address language and social learning disabilities. Clinical experiences in schools are included.

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- 390 Characteristics of Specific Learning Disabilities.** (3) (Prereq: Admission to the Professional Program in Teacher Education) Study of current definitions of individuals with specific learning disabilities, etiology, identification criteria and characteristics, labeling issues, and incidence and prevalence; content also includes the evolution of the term learning disabilities, the psychological, medical, social and emotional, and behavioral characteristics, and the historical foundations and classic studies that undergird the field. Field experiences in schools are required.
- 400 Educational Assessment of Exceptional Learners.** (3) (Prereq: Admission to the Professional Program in Teacher Education) This course provides students with knowledge and experiential learning activities in psycho-educational assessment procedures used in special education with an emphasis on writing reports and developing individualized Education Programs for exceptional learners.
- 417 Materials and Methods for Teaching Reading, Pre K-12 LD.** (3) Study of reading development and effective instructional methodologies used in reading instruction specific to students with learning disabilities; emphasis given to reading practices as they relate to individual learners, readiness activities, decoding skills, vocabulary development and comprehension. Clinical experiences in schools are included.
- 420 Elementary Curriculum and Methods for Teaching Students with Learning Disabilities.** (3) (Prereq: Admission to Professional Program in Teacher Education, Education/Learning Disabilities 390) This course provides knowledge and skills to teach elementary grade students with specific learning disabilities (SLD). Course applies research on teacher effectiveness, instructional approaches, and curriculum design with emphasis on instructional planning; curriculum and instructional strategies for basic academic skills in reading, language arts, and mathematics; study skills and adaptations for science and social studies; motivation; and peer-mediated instruction. Field experiences required.
- 422 Materials and Methods of Teaching Mathematics, Pre K-12 LD.** (3) Basic study of methods and materials for the teaching of mathematics to students with learning disabilities through the K-12 grade span.
- 430 Secondary Curriculum and Methods for Disabilities.** (3) (Prereq: Admission to the Professional Program in Teacher Education) This course applies research on teacher effectiveness, teacher accountability and instructional approaches at the secondary level. Cognitive strategies in self-regulation, study skills, attention, memory, and motivation; peer-mediated instruction including cooperative learning and peer tutoring; and self-advocacy and strategies for facilitating transition into the community, workplace, and postsecondary environments are addressed. Field experiences required.
- 440 Managing the Learning Environment and Behavior.** (3) Study of curriculum and management practices through the K-12 grade span specific to working with students with learning disabilities; special attention given to issues of classroom management strategies. Clinical experiences in schools are included.

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- 459 Learning Disabilities: Field Experience.** (3) (Prereq: Admission to Professional Program in Teacher Education) Supervised field experience with children or youth with specific learning disabilities at the elementary and middle or high school levels. Related seminar addresses the roles of special educators, organizational and legal contexts for special education programs, models for service delivery, professional and ethical practice, and collaboration skills. Students apply knowledge and skills from coursework in characteristics of learning disabilities, collaborative practice and communication, and teaching methods for language learning disabilities.
- 469 Learning Disabilities: Field Experience.** (3) (Prereq: 2.5 GPA, admission to (PPTE) Professional Program and Teacher Education, Education/Learning Disabilities 459, or instructor permission.) Supervised field experience requiring a minimum of 60 hours of direct instruction of elementary students with specific learning disabilities. Students apply knowledge and skills from coursework in reading instruction, behavior management, and teaching methods for students with learning disabilities. Related seminars address timely issues in special education; integrating research supported practices in the classroom, effective instructional planning and implementation; and managing the learning environment and behavior for students with disabilities. Knowledge and skills developed in Field Experience II are reinforced.
- 477 Research, Trends and Issues in Learning Disabilities.** (3) Investigation of current research, trends and issues that impact the planning and performance of programs and instruction for individuals with learning disabilities.
- 478 Internship in Learning Disabilities.** (12) Supervised teaching experience with learning disabilities students. Interns will be assigned to clinical placements for a period of no fewer than 60 instructional days.
- 479 Learning Disabilities: Field Experience IV.** (3) (Prereq: 2.5 GPA, admission to PPTE, Education/Learning Disabilities 469, or instructor permission) Supervised field experience requiring a minimum of 60 hours of special education services provided to middle grades or high school students with specific learning disabilities. Students apply knowledge and skills related to basic academic skills instruction, educational assessment, and secondary level teaching methods and procedures for students with specific learning disabilities. Related seminars address timely issues in special education; integrating research supported practices in the classroom; and community resources. Knowledge and skills developed in Field Experience II and II are reinforced.

ENGINEERING (ENGR)

- 101 Introduction to Engineering.** (1) Students are introduced to the engineering profession and engineering disciplines for the purpose of assisting in selection of an engineering major. Professional ethics, technical communication, word processing and electronic communication are taught. F.

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ENGLISH (ENGL)

All students must earn a C or above in English 101 and English 102.

PREREQUISITES:

1. A C or above in English 101 is a prerequisite for English 102.
2. A C or above in English 102 is a prerequisite for all 200 and higher level English courses.
3. One sophomore survey course (English 275, 276, 287, or 288) is a prerequisite for all upper-level literature classes.

101 Composition. (3) Students gain experience in various types of writing. A research paper is required. Revising and editing skills are taught. F, S, Su.

101B Composition. (English as a Second Language). (3) A variation of English 101 for students who speak English as a second language. F.

102 Composition and Literature. (3) (Prereq: Completion of English 101 or 101B with a C or above). Students read and analyze short stories, poems, and plays. Writing assignments include literary analyses and one research paper. Revising and editing skills are taught. F, S, Su.

102B Composition and Literature. (English as a Second Language). (3) (Prereq: Completion of an English 101 course with a grade of C or above). A variation of English 102 for students who speak English as a second language. S.

275 Masterpieces of World Literature I. (3) (Writing Intensive) (Prereq: Satisfactory completion of English 101 and 102). Selected readings of Western and non-Western literature from antiquity to the Renaissance. Students write primarily analytical essays. Some research is required. All readings are in English. F, S, Su.

276 Masterpieces of World Literature II. (3) (Writing Intensive) (Prereq: Satisfactory completion of English 101 and 102). Selected readings of Western and non-Western literature from the Renaissance to modern times. Students write primarily analytical essays. Some research is required. All readings are in English. F, S, Su.

287 Major Writers of American Literature. (3) (Writing Intensive) (Prereq: Satisfactory completion of English 101 and 102). Extensive reading in the works of the major writers of American literature. Writers are studied with reference to background, school, technique, and philosophy. Some research is required. F, S, Su.

288 Major Writers of British Literature. (3) (Writing Intensive) (Prereq: Satisfactory completion of English 101 and 102). Selected readings in the works of major authors of Great Britain and Ireland. The works represent a variety of eras. Students write primarily analytical essays. Some research is required. F, S, Su.

300A,B Critical Conversations in English. (3) (Prereq: Completion of English 275, 276, 287 or 288). Course restrictions: Required for a major. A seminar designed for newly-declared English majors, this course emphasizes critical thinking, analytical writing and textual analysis as the foundations of success in the major. Texts—connected by generic, thematic or historical factors—will vary based on faculty expertise, but will be the means to introduce students to some

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of the research methodologies, critical “conversations” and professional factors that are central concerns in the discipline. May be repeated for credit once under a different instructor. F, S

- 301 Creative Writing Workshop.** (3) (Prereq: English 101 and English 102). A course that introduces the fundamentals of composing poetry, fiction, creative nonfiction and other types of creative writing using a combination of example readings and writing workshops.
- 302 The Renaissance.** (3) A survey of English literature of the Sixteenth Century from Thomas More’s *Utopia* to William Shakespeare’s comedies and histories.
- 307 The Age of Chaucer.** (3) Masterpieces of fourteenth-century poetry and drama, including Pearl, Sir Gawain and the Green Knight, and works of the Wakefield Master. About one-third of the course is devoted to works of Chaucer not read in English 401.
- 308 Seventeenth-Century British Literature.** (3) A study of the major English poets, dramatists, and prose writers of the Seventeenth Century.
- 314 Eighteenth-Century British Literature.** (3) A historical and critical study of the prose and poetry of the principal Eighteenth-Century writers. Emphasis on the works of Dryden, Defoe, Pope, Swift, and others.
- 315 The British Novel I.** (3) A survey of the British novel from the beginning through the early Victorian era.
- 316 The British Novel II.** (3) A survey of the British novel from the mid-Victorian era to the present.
- 317 The Romantic Age.** (3) A study of the Eighteenth-Century transition from Classicism to Romanticism and of major Romantic writers.
- 318 The Victorian Age.** (3) (Writing Intensive) A study of major mid-and late-Nineteenth-Century British writers, including Hardy, George Eliot, Dickens, Tennyson, the Brownings, and others.
- 322 Latin American Literature in Translation.** (3) (= Spanish 322) (Writing Intensive) Selected readings of Latin American Literature in translation. Students write primary critical essays. All readings are in English. Even Years.
- 323 Modern British and Irish Literature.** (3) A study of the works of British and Irish writers from the turn of the Twentieth Century to 1945.
- 325 Colonial and Revolutionary American Literature.** (3) A study of early American literature with emphasis on the religious, philosophical, social, and political aspects.
- 326 American Literature 1800-1865.** (3) A reading of representative works of Poe, Hawthorne, Melville, Emerson, Thoreau, Whitman, Dickinson, and other writers of the period.

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- 327 American Literature 1860-1910.** (3) A study of American literature from the Civil War to the early Twentieth Century. Emphasis on the changing attitudes reflected in the works of writers of this period.
- 328 Modern American Writers.** (3) (Writing Intensive) A study of the works of American writers in the first half of the Twentieth Century.
- 329 Autobiographies, Journals, and Memoirs.** (3) (Prereq: one sophomore-level literature course) (Writing Intensive) A study of selected Eighteenth-, Nineteenth-, and Twentieth-Century autobiographical writing in English. Students read selected Eighteenth- and Nineteenth-Century autobiographies, journals, and memoirs and explore the ways in which recent writers (in particular women and minorities) have challenged and revised the conventions of this genre. Students are required to produce some autobiographical writing.
- 333 The American Novel.** (3) A study of selected American novels.
- 336 Contemporary American Literature.** (3) (Writing Intensive) A study of the literary trends in America from 1945 to the present.
- 341 African-American Literature, 1750-present.** (3) A survey of Nineteenth and Twentieth-Century literature. Emphasis on the classic works of Frederick Douglass, Charles Chesnutt, Zora Neale Hurston, Toni Morrison, and Ralph Ellison.
- 380 Studies in World Film.** (3) (= Spanish 380, Theater 380) This course is a survey of world film with an emphasis on Hispanic cinema. It provides a general introduction to contemporary film-critical discourses which are currently under the rubric of film semiotics. Key elements of the language of cinema are studied with the goal of developing both critical and creative skills.
- 381 Modern British and American Drama.** (3) (=Theater 381) A critical and historical survey of the development of British and American drama from the eighteenth century to the present. Possible authors include Sheridan, Wilde, Shaw, Pinter, Miller, Williams, Hansberry, and Mamet.
- 382 Contemporary Fiction.** (3) A study of new fiction in English and other languages (in translation).
- 386 Contemporary Poetry.** (3) A study of the poetry of a variety of contemporary American and British poets.
- 390 Business and Professional Communication.** (3) (Writing Intensive) (Prereq: junior or senior standing) Designed to improve practical communication, both written and oral. Students learn business style and formats (the letter, memo, resume, and report), as well as strategies for presenting neutral, negative, and persuasive messages. Students will speak on business or professional topics.
- 399 Independent Study.** (3) (Prereq: written contract between student and instructor, approved by adviser, Chair of the English Department, and Associate Dean of Humanities and Fine Arts. Approval must be gained by the end of the semes-

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ter that precedes the semester in which the independent study is undertaken.) A maximum of 12 credit hours of 399 may be applied to a B.A. degree. Courses numbered 399 may not be used to fulfill requirements for core curriculum or English core (Major). May be repeated for credit under different topics.

- 401 Chaucer.** (3) A study of Chaucer's *Canterbury Tales*, with some attention to his other major works.
- 405 Studies in Shakespeare's Tragedies.** (3) (Writing Intensive) A study of Shakespeare's tragedies.
- 406 Studies in Shakespeare's Comedies and Histories.** (3) (Writing Intensive) A study of Shakespeare's comedies and histories.
- 424 Studies in British Literature.** (3) Intensive study of topics selected by the professor teaching the course. May be repeated with the approval of the department chair. May be repeated for credit under different topics.
- 425 World Dramatic Literature.** (3) A critical and historical survey of the cardinal works of dramatic literature across the epochs of theatrical performance. The course accents analysis and interpretation.
- 426 Major American Poets.** (3) (Writing Intensive) A study of the poetry of a variety of transitional and modern American poets, such as Walt Whitman, Emily Dickinson, Robert Frost, and T.S. Eliot.
- 427 Studies in Southern Literature.** (3) A critical study of the Twentieth-Century Southern literary tradition. The course examines regional interests shaping the emergence of a Southern literature and the distinctive characteristics of the literature, focusing especially on the writings of William Faulkner, Flannery O'Connor, Tennessee Williams, Robert Penn Warren, and Walker Percy.
- 443 Studies in Women Writers.** (3) A study of selected works of Western and non-Western women writers.
- 444 Women Writers of the South.** (3) A study of literature by Southern women writers from the pre-Civil war era through the present. Includes an examination of the historical and cultural conditions which affect the work of women writers.
- 451 Introduction to the Study of Language and Modern Grammar.** (3) An introduction to the general principles concerning the design and function of human language, and an overview of the history of grammar with emphasis upon modern grammatical theory. Illustrative material is drawn from the English language, modern European languages, and others. F.
- 453 Development of the English Language.** (3) A study of the origins and development of languages in general, and of English and related languages in particular. No previous knowledge of Old and Middle English necessary. S.
- 454 Psycholinguistics.** (3) (= Psychology 402) (Prereq: junior or senior status) A survey of selected aspects of the field focusing on the cognitive and behavioral

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foundations of child and adult language acquisition. Other topics may include developmental and catastrophic language disorders, neurolinguistics, and the language-thought interaction.

- 457 Form and Style in Writing.** (3) (Writing Intensive) A writing intensive course that focuses on the essential processes of research and writing. The course covers the details of format and matters of style for MLA, APA, and Chicago. Students receive help with every step of the process in completing their writing projects.
- 459 Advanced Composition and Rhetoric.** (3) (Writing Intensive) Writing that involves different aims, types, and audiences. Students learn theory about composition, rhetoric, and reading. Students also read examples, do library research, and review grammar, punctuation, and editing.
- 462 Writing Workshop-Fiction.** (3) (Prereq: English 301) A workshop course in the writing of prose fiction. Students have the opportunity to have their works read and criticized by a group of fellow writers.
- 465 Creative Nonfiction Workshop.** (3) (Prereq: English 301) A workshop course in the writing of creative nonfiction. Students learn the craft of this “fourth genre,” developing skills in memoir, personal essay, nature writing, and/or other subgenres of creative nonfiction.
- 468 Writing Workshop-Poetry.** (3) (Prereq: English 301) A workshop course in the writing of poetry. Students learn the craft of poetry, have their poems discussed in a workshop setting, and are guided in the preparation and submission of manuscripts for publication.
- 470 Early British Drama.** (3) A study of the development of the religious drama in Western Europe and in medieval England, and of the British drama of the Sixteenth Century.
- 480 Special Topics in Technical Communications.** (3) (Prereq: Completion of English 210 and English 211, with a **B** or above and English 212 and Arts 201; Junior standing) An intensive workshop focusing on a specific topic in technical communication. Topics will vary and may include Computer Documentation (hardware and software, including user guides, reference manuals, quick reference guides, tutorials, and online documentation); Grant/Proposal Writing; Scientific/Medical Writing; Hypermedia authoring. May be repeated for academic credit. F.
- 483 Theory of Literary Criticism.** (3) A study of various theories of literary criticism as applied to the major genres (fiction, poetry, and drama) with the aim of establishing standards of judgment.
- 484 Children’s Literature.** (3) An extensive study of works appropriate for the elementary and middle school child. Required of all students specializing in Early Childhood and Elementary Education.
- 485 Adolescent Literature.** (3) An extensive study of works appropriate for the adolescent. Required of all Secondary English Education students.

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- 488 Studies in World Literature.** (3) Intensive study of topics selected by the professor teaching this course. May be repeated and used for English credit with approval of the department chair.
- 490 Internship in Technical and Professional Writing.** (3) (Prereq: Completion of English 210 and English 211 with a **B** or above and Arts 201 and English 212; Junior standing) Supervised technical communication work in industry, science, government, or business. Enrollment requires a proposal and approval of English Department faculty. Portfolio and report required. F.
- 495 Internship for English Majors** (3) Students will receive instruction and gain professional experience in an internship while working at least 10 hours per week with a local business or organization. Course contract must be approved prior to registration.
- 496 Senior Thesis in English.** (3) (Prereq: English 300A,B) Students will design and execute an original research project with the guidance, support and oversight of the class instructor. Students are encouraged to choose a research mentor from among the full-time faculty in the Department of English, but the final evaluation of the project is the responsibility of the course instructor. Students will publicly present their projects at the conclusion of the course.
- 497 Special Topics.** (3) Course Restrictions: Students will take course as part of approved Coastal Carolina travel/study programs. Course is a selective. Students will undertake the study of literature and/or the English language in the context of significant national or international travel. Under the guidance of faculty experienced in external study, and taking advantage of site-specific resources, students will explore how direct knowledge of place can lead to insight into the literary and cultural productions of a civilization. Most often, students will study primary texts before travel, and the most common itineraries will include visits to libraries, museums, historic landmarks and locations of cultural significance.
- 499 Studies in American Literature.** (3) Intensive study of topics selected by the professor teaching the course. May be repeated with the approval of the department chair.

ENVIRONMENTAL SCIENCE (ENVI)

- 201 Introduction to Environmental Science.** (3) (Prereq: Biology 121 or 122 or Chemistry 112 or Marine Science 112) The course brings together fundamental scientific disciplines (biology, chemistry, physics, geology and oceanography) in a cogent, multidisciplinary approach to investigate the interaction of human activity and the environment. The lab consists of two 7-week modules that focus on the environment of a specific geographic region. Each week a different component of that system is examined. Three lecture hours per week. S.
- 201L Introduction to Environmental Science Laboratory.** (1) (Coreq: Environmental Science 201) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.

(Environmental Science)

- 331 Introduction to Geographic Information Systems (GIS) and Remote Sensing.** (3) (=Marine Science 331) (Prereq: One Computer course and one Statistics course and Mathematics 160) (Coreq: Environmental Science 331L) An introduction to the fundamental concepts of Geographic Information Systems (GIS) and remote sensing. Using a database tied to particular geographic coordinates, a GIS is an automated system for storing, transforming, analyzing and displaying spatial data. This course discusses input methods, data storage, data accuracy, data models, types of query and analysis, and map output. Each student designs, conducts and presents a term research project. Three lecture hours per week. F.
- 331L Introduction to Geographic information Systems Laboratory.** (1) (=Marine Science 331L) (Coreq: Environmental Science 331) This laboratory demonstrates the techniques and principles presented in Environmental Science 331. It introduces students to GIS computer software and the collection, entry, storage, query, analysis and presentation of spatial data. Three laboratory hours per week. F.
- 399 Independent Study/Internship.** (1-4) (Prereq: A contract must be approved by the instructor and the department chair by the time of registration). Directed study of specific topics or supervised work as part of an approved off-campus internship. F, S, Su.
- 420 Advanced Environmental Science.** (3) (=Marine Science 420) (Prereq: Biology 122, Mathematics 160, Chemistry 112 and Physics 201 or 211) (Coreq: Environmental Science 420L) Students actively investigate the earth system along with current environmental issues. Emphasis is placed on the integration of the many subsystems that comprise the earth system. Environmental issues are scientifically explored in an effort to develop sustainable solutions. The lab is project oriented, including both a local environmental study and a global remote sensing study. Three lecture hours per week. S.
- 420L Advanced Environmental Science Laboratory.** (1) (=Marine Science 420L) (Coreq: Environmental Science 420) The laboratory demonstrates the topics and principles presented in the lecture. Three laboratory hours per week. S.
- 487 Selected Topics in Environmental Science.** (1-6) (Prereq: Environmental Science 201 and permission of instructor) These topics are designed to allow the development of seminars and courses in special areas of environmental science. Offered on demand.
- 499 Directed Undergraduate Research.** (3-6) (Prereq: A contract must be approved by the instructor and the department chair by the time of registration.) Structured undergraduate research projects conducted with faculty direction and participation, or within the context of an approved off-campus internship. Projects explore environmental problems using the scientific method. One conference and no less than five laboratory or field research hours per week. F, S, Su.

(French)**FRENCH (FREN)**

- 110 Introductory French I.** (3) Fundamentals of the language through aural comprehension, speaking, reading and writing. F, S.
- 111 Introductory French I-II (Intensive).** (3) Fundamentals of the language through aural comprehension, speaking, reading, and writing, Equivalent to French 110-120. Intended for students with two years of high school French with an average grade of B or better, or by placement.
- 120 Introductory French II.** (3) (Prereq: French 110 or by placement) A continuation of French 110. Fundamentals of the language through aural comprehension, speaking, reading, and writing. F, S.
- 130 Introductory French III.** (3) (Prereq: French 120, 111 or by placement) Further development of fundamental language skills (listening, speaking, reading, and writing), with additional consideration of culture. F, S.
- 210 Intermediate French I.** (3) (Prereq: French 130 or by placement) Intensive review of fundamental language skills in preparation for advanced-level course work, with particular emphasis on reading. S.
- 310 French Grammar and Composition.** (3) (Writing Intensive) (Prereq: French 210 or equivalent) Intensive practice in French grammar and composition.
- 311 French Conversation.** (3) (Prereq: French 210 or equivalent) Intensive practice in spoken French.
- 316 French Phonetics.** (3) (Prereq: French 210 or equivalent) A course in pronunciation of French with attention to correction of difficulties encountered by English speakers. Students will make regular use of the language laboratory.
- 350 French Language Study Abroad.** (3-6) (Prereq: Approval by Foreign Language faculty) Language study abroad with instruction by native speakers. Credit hours granted dependent on the number of hours taken. Upon successful completion of an approved program, students must furnish a certificate and/or examination results. Prior consultation with the Chair of the Department of Foreign Languages is mandatory before enrollment.
- 390 Introduction to French Literature I.** (3) (Prereq: French 210 or equivalent) A survey of French literature from the Middle Ages through the 18th century.
- 391 Introduction to French Literature II.** (3) (Prereq: French 210 or equivalent) A survey of French literature of the 19th century and 20th century.
- 399 Independent Study.** (3) (Prereq: A written contract between the student and instructor for a special topic dealing with French language or culture, and approved by the Dean of the Edwards College of Humanities and Fine Arts) May not be used to satisfy the French Minor Core. May be repeated for credits under different topics.

(French, Geography)

- 400 French Civilization.** (3) (Prereq: French 210 or equivalent) Practice in oral and written French through a study of the culture, history and development of France from its beginnings to the present day.
- 401 La France Contemporaine.** (3) (Prereq: French 210 or equivalent) Reading and discussions on the culture of contemporary France.
- 415 French Linguistics.** (3) (Prereq: French 210 or equivalent) Presentation and evaluation of various linguistic models and their application to the teaching of French.
- 448 Teaching of French.** (3) (Prereq: Permission of the Department) Study of the latest methodologies, theories, and materials for teaching modern languages.
- 495 Internship.** (3) (Prereq: French 350 or special permission) This is a guided internship and requires 120 hours of outside work, a journal and a final evaluation paper.

GEOGRAPHY (GEOG)

- 121 World Regional Geography.** (3) An introduction to basic geographical concepts used by geographers in examining the fundamental contrasts between various countries of the world. Analysis of regions of the world, western and non-western, with respect to physical, cultural (both majority and minority), political and economic orientation.
- 121A Tools of Geographic Instruction.** (1) (Prereq or Coreq: Geography 121) Basic tools of geography such as globe characteristics, map essentials, atlas fundamentals and compass use. One two-hour laboratory meeting per week.
- 201 Introduction to Physical Geography.** (4) The spatial significance of land forms, water bodies and soils. Emphasis is placed on both the man-land relationship and the concept of location. Three lectures and one two-hour laboratory per week.
- 202 Introduction to Weather and Climate.** (4) The interrelationship of weather elements and controls and the spatial distributions of climate and vegetation. Three lectures and one two-hour laboratory a week.
- 205 The World of Maps and Mapping.** (3) Understanding and appreciation of maps for the amateur as user, maker, or collector. Two lectures and one two-hour laboratory per week.
- 399 Independent Study.** (1-6) (Prereq: Written contract between student and instructor) May be repeated for credit under different topics.
- 424 Geography of North America.** (3) Physical and cultural geography of North America with emphasis on the United States.
- 425 Geography of Europe.** (3) Physical and cultural geography of Europe.
- 426 Geography of Latin America.** (3) Physical, cultural, and economic geography of Latin America.

GEOLOGY (GEOL)

- 102 Environmental Geology.** (3) (=Marine Science 102) (Coreq: Geology 102L) The geologic processes and features that affect human usage and development of Earth's resources. Topics include natural hazards such as earthquakes, floods and volcanic eruptions, use of natural resources such as surface and ground waters, soils, and the coastal zone as well as contamination control. Three lecture hours per week. F, Su.
- 102L Environmental Geology Laboratory.** (1) (=Marine Science 102L) (Coreq: Geology 102) The environmental geology laboratory course focuses on active learning exercises demonstrating the dynamic interrelationships of Earth's inhabitants, natural resources and geohazards. Specific exercises, conducted in the classroom and in the field, concern the resources and geohazards associated with mineral and rocks, global plate motions, earthquakes and volcanoes, wetlands and coastal regions and land-use issues. Three laboratory hours per week. F, Su.
- 111 Physical Geology.** (3) (Coreq: Geology 111L) This course illustrates the methods and enterprise of science as they have been applied to interpret the earth. The technical subject matter is concerned as much with natural processes as with their products—the minerals, rocks, fossils, structure and surface forms of the earth. The course emphasizes the interplay between hypothesis, experiment, and observable fact that characterizes productive physical science. Three lecture hours per week. Offered on demand.
- 111L Physical Geology Laboratory.** (1) (Coreq: Geology 111) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. Offered on demand.
- 112 The Origin and Evolution of the Marine Environment.** (3) (=Marine Science 112) (Prereq: Geology 111, Marine Science 111 and 111L) (Coreq: Geology 112L) Concepts concerning the origin and evolution of the earth and seas, with ecological processes related to their development. The origin and evolution of life including primitive forms in the marine environment. Three lecture hours per week. F, S.
- 112L Marine Environment Laboratory.** (1) (=Marine Science 112L) (Coreq: Geology 112) Laboratory and field experiences to illustrate the process of evolution in the oceans and associated marine life. Three laboratory hours per week. F, S.
- 304 Marine Geology.** (3) (=Marine Science 304) (Prereq: Geology 112 and 112L) (Coreq: Geology 304L) A comprehensive study of the origin and development of the major structural features of the ocean basin and the continental margins. Discussion of the techniques used in obtaining geologic data and the interpretation of sedimentary processes, volcanism and the stratigraphy of the ocean basins. Three lecture hours per week. F, S.
- 304L Marine Geology Laboratory.** (1) (=Marine Science 304L) (Coreq: Geology 304) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F, S.

(Geology)

- 316 Sedimentary Geology.** (3) (=Marine Science 316) (Prereq: Permission of instructor) (Coreq: Geology 316L) Introduction to concepts and practices in the field of sedimentary geology including classical stratigraphic concepts, elementary sedimentary petrology and depositional environments. Each student is required to give an oral presentation. Three lecture hours per week. S.
- 316L Sedimentary Geology Laboratory.** (1) (=Marine Science 316L) (Coreq: Marine Geology 316) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.
- 318 Physical Analysis of Sediments.** (3) (=Marine Science 318) (Prereq: Permission of instructor) (Coreq: Geology 318L) Detailed treatment of modern approaches to sedimentary analysis including textural and structural studies, mineral separation, beneficiation, and suspended sediment treatment of unconsolidated laboratory materials. Each student is required to give an oral presentation. Three lecture hours per week. F.
- 318L Physical Analysis of Sediments Laboratory.** (1) (= Marine Science 318L) (Coreq: Marine Geology 318) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F.
- 399 Independent Study.** (1-6) (Prereq: Permission of instructor and approved contract.) Directed study and/or research on specific topics. F, S, Su.
- 416 Hydrogeology.** (3) (=Marine Science 416) (Prereq: Marine Science 304 or permission of the instructor) This course will cover the elements of the hydrologic cycle, emphasizing ground and surface water movement through the hydrologic system. Topics will include hydrogeology, streams and floods, estuarine and wetland hydrology, properties of water, and the hydrologic continuum between rivers and the sea. Lecture will focus on theoretical aspects of water movement and the hydrologic system. Three lecture hours per week.
- 416L Hydrogeology Laboratory.** (1) (=Marine Science 416L) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week.
- 487 Selected Topics in Coastal Geology.** (1-4) (Prereq: Permission of the instructor) These topics are designed to allow the development of seminars and courses in special areas of coastal geology.
- 499 Directed Undergraduate Research.** (1-4) (Prereq: A contract must be approved by the instructor and geology minor coordinator by the time of registration) Structured undergraduate research projects conducted with faculty direction and participation, or within the context of an approved off-campus internship. Projects explore geological problems using the scientific method. One conference and no less than five laboratory hours or field research per week. F, S, Su.

(German)

GERMAN (GERM)

- 110** **Introductory German I.** (3) Fundamentals of the language through aural comprehension, speaking, reading, and writing. F, S.
- 111** **Introductory German I -II (Intensive).** (3) Fundamentals of the language through aural comprehension, speaking, reading, and writing. Equivalent to German 110-120. Intended for students with two years of high school German with an average of B or better, or by placement.
- 120** **Introductory German II.** (3) (Prereq: German 110 or by placement) A continuation of German 110. Fundamentals of the language through aural comprehension, speaking, reading, and writing. F, S.
- 130** **Introductory German III.** (3) (Prereq: German 120, 111, or by placement) Further development of fundamental language skills (listening, speaking, reading, and writing), with additional consideration of culture. F.
- 210** **Intermediate German I.** (3) (Prereq: German 130 or by placement) Intensive review of fundamental language skills in preparation for advanced-level course work, with particular emphasis on reading. S.
- 310** **German Grammar and Composition.** (3) (Writing Intensive) (Prereq: German 210 or equivalent; permission of the Department) Intensive practice in German grammar and composition.
- 311** **German Conversation.** (3) (Prereq: German 210 and permission of the Department) Intensive practice in spoken German.
- 350** **German Language Study Abroad.** (3-6) (Prereq: Approval by Foreign Language faculty) Language study abroad with instruction by native speakers. Credit hours granted dependent on the number of hours taken. Upon successful completion of an approved program students must furnish a certificate and/or examination results. Prior consultation with the Chair of the Department of Foreign Languages is mandatory before enrollment.
- 390** **Introduction to German Literature I.** (3) (Prereq: German 210 or equivalent; permission of the Department) Reading and discussion of representative works of German prose, drama, and lyric poetry from Germanic times through the late eighteenth century.
- 391** **Introduction to German Literature II.** (3) (Prereq: German 210 or equivalent; permission of the Department) Reading and discussion of representative works of German prose, drama, and lyric poetry from the nineteenth and twentieth centuries.
- 398** **Selected Topics in Translation.** (3) (Prereq: Permission of the Department) Selected topics in German literature and culture. Readings in English; topics announced in advance. May be repeated for credit under different topics.

(German, Health Promotion)

- 399 Independent Study.** (3) (Prereq: A written contract between the student and the instructor for a special topic dealing with German language or culture, and approved by the Dean of the Edwards College of Humanities and Fine Arts.) May not be used to satisfy the German Minor Core. May be repeated for credit under different topics.
- 400 German Civilization.** (3) (Prereq: German 210 or equivalent; permission of the Department) A broad survey of German civilization and cultural history from the Germanic origins through the Third Reich/World War II.
- 401 Contemporary Germany.** (3) (Prereq: German 210 or equivalent; permission of the Department) An in-depth examination of the civilization and cultural life of post-war Germany with additional consideration of Austria and Switzerland.
- 405 Topics in German.** (3) (Prereq: German 210 or equivalent; permission of the Department) Reading and discussion on selected topics in German language, literature, and culture. May be repeated for credit under different topics.
- 415 German Linguistics and Phonology.** (3) (Prereq: German 210 or equivalent; permission of the Department) An overview of the history of the German language and introduction to German phonology, with an emphasis on teaching applications.
- 448 Teaching of German.** (3) (Prereq: Permission of the Department) Study of the latest methodologies, theories, and materials for teaching modern languages.
- 495 Internship.** (3) (Prereq: German 350 or special permission) This is a guided internship and requires 120 hours of outside work, a journal and a final evaluation paper.

HEALTH PROMOTION (HPRO)

- 121 Personal and Community Health.** (3) An investigation of issues related to improving personal health and community health. Emphasis will be on physical fitness, mental health, nutrition, stress management, sexuality, relationships, diseases, and complementary medicine for self-care.
- 201 Philosophy and Principles of Health Promotion and Education.** (3) (Prereq: Health Education 121) An exploration of underlying philosophies of health education and promotion. An overview of social, cultural, and physical environmental factors which influence perceptions and valuation of health, and condition responses to health related knowledge.
- 235 Advanced Emergency Care and First Aid.** (3) This course is designed to prepare the student to respond appropriately when faced with an emergency situation. Emergency Response certification may be earned with a score of 80% or better. Physical activity to perform various skills in CPR and First Aid is required.

(Health Promotion)

- 310 Issues in Family Life and Sexuality.** (3) (Prereq: Health Education 121) An overview of problems and questions relative to family life and sex education. Topics include: communication, relationships, intimacy, marriage, parenting, male/female sexual anatomy, sexually transmitted diseases, contraceptives and childbirth.
- 331 Health Education for the Primary and Elementary School.** (3) An exploration of the major health problems that affect school age children and have implications for learning. Special emphasis will be placed upon how the teacher may influence the health knowledge, attitudes and beliefs of children in preschool through grade eight.
- 333 Environmental Health.** (3) (Prereq: Health Education 121) Study to provide students with an understanding and appreciation of the complex interaction of humans and the environment, the multi-disciplinary areas of the environmental health sciences and the impact degradation of the environment may have on the health of living organisms. Environmental pollution, its sources, modes of transport and transformation, and methods of prevention are addressed.
- 340 Drug Education.** (3) (Prereq: Health Education 121) The nature of drug actions, motivational factors that influence the use of drugs, and evaluation of procedures to provide effective drug education.
- 347 Consumer Health Education.** (3) (Prereq: Health Education 121) Responsibility of individuals and families for the proper evaluation of medical information as it relates to the adequate and proper utilization of health practices and services.
- 349 Peer Educator Training.** (3) (Prereq: Health Education 121) A course designed to educate students to be peer educators so they may educate others about prevention and risk reduction of health problems.
- 350 Professional and Program Development in Health Promotion and Education.** (3) (Prereq: Admission to the Health Promotion Program, Health Education 121 and 201) (Writing Intensive) Overview of the skills necessary for excellence and quality in the implementation of health promotion programs. Topics include coalition building, presentation skills, program planning, health communication, legislative involvement, and promoting multicultural diversity.
- 382 Diseases and Disorders.** (3) (Prereq: Health Education 121) The epidemiology of chronic and communicable diseases to include a study of their causes and progressions, departures from normal body functioning, relationships of disease to functional ability, and preventative and curative aspects.
- 399 Independent Study.** (1-3)
- 404 Nutrition.** (3) (Prereq: Health Education 121) A study of the metabolic mechanisms and requirements of food groups and nutrients as related to health, various age groups, and physical activity. Special attention is given to risk reduction of chronic disease through proper nutritional health and individual eating practices along with the evaluation of these habits against the guidelines that support good health.

(Health Promotion, History)

- 410 Epidemiology and Quantitative Research Methods.** (3) (Prereq: Admission to the Health Promotion Program, Health Education 201, 382; Statistics 201 or the equivalent) An overview of epidemiological models and quantitative research methods used by public health agencies and health care providers to analyze patterns of acute and chronic diseases.
- 480 Women's Health Issues.** (3) (Prereq: Health Education 121) An overview of current health concerns related to women throughout their life-span. Current diagnostic, technological and other medical/scientific advances will be discussed. Open to men and women.
- 481 Behavioral Foundations and Decision Making in Health Education.** (3) (Writing Intensive) (Prereq: Admission to the Health Promotion Program, Health Education 350 and senior standing) A study of the interaction between health education and the applied behavioral sciences to effect positive health behavior change in persons, institutions, and communities. Included is the study and identification of theoretical foundations to plan effective promotion and health education programs.
- 485 Internship in Health Careers.** (9) (Prereq: Admission to the Health Promotion program. Senior standing, and Health Education 350) Supervised work experience through health-related agencies for a minimum of 290 hours. The internship requires 90 or more hours of collegiate credit with a Coastal Carolina University GPA of 2.25 or greater; formal application with a resume by stipulated deadline; and a contract with the internship agency, the student, and the department. A journal detailing work activities and portfolio will also be required.
- 491 Needs Assessment and Evaluation of Health Programs.** (3) (Prereq: Admission to the Health Promotion Program, Health Education 350; Statistics 201 or the equivalent; senior standing) Needs assessment and evaluation models will be reviewed with practical applications in the classroom, laboratory, and field settings. Major emphasis on qualitative design and analysis, but an application of quantitative design and instruments will be provided.
- 495 Senior Seminar - CHES Review.** (1) (Prereq: Admission to the Health Promotion Program, Senior Standing and Health Education 350. Coreq: Health Education 485). A review of the skills and processes of health education which will assist in the preparation to certify as a Certified Health Education Specialist (CHES). (Pass/Fail only).
- 499 Directed Undergraduate Research.** (1-6) (Prereq: Permission of instructor and approved contract) Directed undergraduate research on a topic to be developed by the student and instructor.

HISTORY (HIST)

- 100L History of Western Civilization in Film.** (1) (Coreq: History 101 or 102) This course will examine select topics in Western Civilization through the analysis of films.

(History)

- 101 The Foundations of European Civilization to 1648.** (3) An introduction to the foundations of European Civilization, beginning with the early civilizations of Egypt and Mesopotamia, followed by a survey of the history of ancient Greece and Rome, the rise of Christianity, the transmission of this heritage to Europe, the Middle Ages, the Renaissance, and the Reformation.
- 102 Introduction to European Civilization from 1648 to the Present.** (3) A survey of the rise of European civilization from the end of the Thirty Years' War to the present.
- 111 World History to 1500.** (3) World History to 1500 examining the emergence of key civilization in India, China, Africa and Europe.
- 112 World History Since 1500.** (3) World History since 1500 examines the nature and interactions between Europeans, Asians, Africans, Pacific Islanders and Americans from the "voyages of oceanic discovery" through the ages of democratic and industrial revolutions and into the era of contemporary global developments.
- 201, 202 History of the United States from Discovery to the Present.**
(3 each) A general survey of the United States from the era of discovery to the present, emphasizing major political, economic, social, and intellectual developments.
201: Discovery through Reconstruction. 202: Reconstruction to the present.

The Following Courses Require Sophomore Standing or Above or Permission of the Instructor.

- 300 Historical Methods.** (3) (Writing Intensive) A seminar in the principles and practice of historical research, including an introduction to historiography, the interpretation of historical documents, proper documentation, and clarity of expression. Should be among the first upper-level courses taken by majors. S, F.
- 302 The Middle Ages (500-1250).** (3) A study of the causes and course of the split of the Roman world into Western European, Eastern Orthodox and Islamic culture, followed by a discussion of the civilization of the High Middle Ages and the problems of cultural change in the late medieval period.
- 303 Renaissance and Reformation (1250-1648).** (3) A consideration of the decline of the medieval world and the dawn of modern civilization as exemplified by the emergence of the modern state, the Renaissance, the Reformation, the New Science, the Age of Exploration and the secularization of society.
- 304 The Enlightenment: Europe (1648-1789).** (3) A survey of the main currents of European thought, cultural development, and politics between the Thirty Years' War and the French Revolution.
- 307 European History (1848-1914).** (3) A study of the main currents of European thought, from the Revolutions of 1848 to the rise of industrial power, imperialism, diplomatic realignment, nationalism, and the road to World War I.

(History)

- 308 World War I and the Twenty Years' Truce.** (3) An inquiry into the causes and conduct of the First World War; the peace settlement of 1919-1923; the rise of totalitarianism and the struggle of the European democracies; the road to the Second World War.
- 313 The History of Russia to 1855.** (3) An introduction to the civilization of the Russian and Slavic peoples. The historical traditions and culture of the people who occupied the Russian plains from the eighth century A.D. to the mid 19th century.
- 314 The History of Modern Russia and the Soviet Union Since 1855.** (3) The decline of Imperial Russia, the Revolution of 1917, and the development of the Soviet Union.
- 316 Roman Republic and Empire.** (3) An examination of the political history of the Roman state, from its foundation by the legendary Romulus to its destruction by barbarian invaders. Special emphasis upon the failure of Republican government and the disappearance of personal freedom as one family of unparalleled ability and wealth fights for victory in a bloody civil war. Imperialism, militarism, bureaucratization and the advent of Christianity highlighted. Colorful personalities, such as those of Marc Antony and Cleopatra, examined in some detail.
- 317 Comparative Revolutions.** (3) (Writing Intensive) (= Politics 317) (Prereq: sophomore standing) Case studies of the classic revolutions (English, American, French, and Russian) and analyses of these and other revolutions as political phenomena. Attention will be given to the political philosophy of revolution.
- 322 Medieval Art & Architecture.** (3) (= Art History 322) A survey of the cultural and artistic trends from c. 300 to 1300, this course will focus on France, England, Germany, and Italy, but also examine important post-classical innovations in what are now Norway, Greece, Turkey, Israel, Egypt, and Syria. Much of the discussion will concern religious architecture, culminating in High Gothic cathedrals. Decorative arts such as illuminated manuscripts, mosaics, stained glass, and sculpture in wood, stone, bronze, and gold will also be central to the course content.
- 323 Italian Renaissance Art & Architecture.** (3) (= Art History 323) This course surveys the painting, sculpture, and architecture of the Italian peninsula c. 1300-1550 and the revival of classical ideals and philosophies of visual representation focusing primarily on Florence, Venice, and Rome. The course examines the art and ideas of inspired, creative minds such as Giotto, Masaccio, Ghiberti, Brunelleschi, Alberti, Donatello, Botticelli, Leonardo da Vinci, Michelangelo, Raphael, Titian, Palladio, and many more.
- 324 Baroque Art & Architecture.** (3) (= Art History 324) The 17th Century was a period of remarkable exploration, experimentation, and change. Those events were embodied in the painting, sculpture, and architecture of this Gilded Age. Focusing on the Netherlands and Flanders (modern Holland and Belgium), Rome, France, and Spain, this course surveys the visionary ideas of Caravaggio, Carracci, Rembrandt, Rubens, Vermeer, Velasquez, Borromini, and Bernini among others.

(History)

- 326 History of Germany Since 1870.** (3) A critical study of the creation of the German Empire, Bismarck, Wilhelmian Germany, the First World War, the Weimar Republic, the Third Reich, the Second World War, and the fate of German speaking peoples since then.
- 327 Eastern Europe and the Soviet Union: 1918 to the Present.** (3) History of the new East European states and the Soviet Union from the end of World War I to the present. Emphasis on their domestic and foreign problems during the interwar period, the Russian expansion and domination of Eastern Europe since 1945, the establishment of the "People's Democratic Republics" in Poland, East Germany, Czechoslovakia, Hungary, Bulgaria, Yugoslavia, and Albania, and the revolutionary upheavals in the 1980's leading to the fall and collapse of the Communist system and ideology in Eastern Europe and the Soviet Union.
- 328 Renaissance Europe, 1250-1517.** (3) A survey of renaissance culture as it emerged in the northern Italian city-states. Topics include republican and despotic governments, war and diplomacy, humanism, art, individualism, religion, the growth of secularism, gender, the family, and the Northern Renaissance.
- 329 Reformation Europe, 1517-1648.** (3) An examination of the Protestant Reformation and its European context. Topics include the renaissance background, Luther's break with Rome, the major reformed traditions, the Catholic response, the nation-state, warfare and diplomacy, colonialism, the new science, and the rise of toleration and individualism.
- 333 Modern France: 1715 to the Present.** (3) A political and social history of the French nation from the end of Louis XIV's reign, and the Revolutions of 1789 and 1792, to modern-day France.
- 335 History of England: 1485-1714.** (3) The development of Modern England from the beginning of the Tudor dynasty, through the Elizabethan period, the Civil War, Cromwell, to the end of the Stuart line.
- 337 The History of Britain: 1714 to the Present.** (3) The social, intellectual, economic, and political history of the British Isles from the beginning of the Hanoverian dynasty, through the Age of Victoria, the decline of the Empire, the catastrophe of two world wars, to the present time.
- 338 Modern Ireland.** (3) This course examines the political, economic, cultural, social and regional struggles for identity, unity, partition, and independence in Hibernia from the era of Union to the present. Themes and topics addressed may include: early English colonization; the rising of 1798 and the Act of Union; Georgian Ireland; the Potato Famine of the 1840s; Home Rule movements; Gaelic revival; the Easter Rising; political partition, "the Struggles," and contemporary developments.
- 340 History of East Asia.** (3) A survey of East Asian history from prehistory to the recent past. Topics include the early Chinese imperium; the emergence of Confucianism and arrival of Buddhism, the regional diasporas of resultant

(History)

cultural forms to Korea, Japan, Vietnam, Thailand, and Cambodia; feudal rule; commercial and social conditions; arrival of Western Imperialists; and the rise of anti-imperialist, nationalist, and de-colonization movements.

345 Intellectual History of Early Modern Europe. (3) "Great books" from the High Middle Ages to the Romantic era, set within the broader social, economic, and political context. Topics include scholasticism, humanism, Renaissance Platonism, Reformation and Counter-Reformation theology, skepticism, the new science, British empiricism, the Enlightenment, and the Romantic reaction.

346 Modern European Intellectual History. (3) Overview of Western intellectual history from the French Revolution through the late twentieth century. Includes an examination of political, cultural, literary, imaginative, popular, and intellectual traditions that informed various European traditions.

347 Pre-modern Japan: The Rise and Fall of the Samurai. (3) An introductory survey of the society and culture of pre-modern Japan, this course examines the formation of the early Japanese imperial state, the disposition of Japan's feudal rule by military elite, and the commercial and social conditions that characterized the early modern era in Japan. Particular attention is directed to the transformation of the samurai from proud and able warriors into what was by the nineteenth century in all practice little more than a class of inflexible bureaucrats and raucous brigands.

348 Modern Japan: From the Last Samurai to the Pacific War. (3) Together students and instructor consider the ideas, principles, and values that underpinned Japan's traditional culture and society even as Japan's selective absorption of Western paradigms and cultural forms is studied. Students learn to build for themselves a better understanding of the role values-traditional and modern, Japanese and non-Japanese-played in the historical process of national integration and rapid industrialization that marked Japan's emergence as a twentieth century power.

349 Modern China: Reform and Revolution in the Modern Age. (3) A survey of Modern China from the rise of the Qing Dynasty in 1644 to the economic boom of the post-Deng 1990's. Students examine China's experience of Western incursions since the 1830's, through the course gives primacy to the impact of domestic-born institutional and cultural innovations that presaged the arrival of the Western Powers. An investigation of China's inner-history of reform and revolution enables students to appreciate the way in which Modern China was as much the product of domestic processes as it was the result of changes wrought by the West.

355 Introduction to Latin America Civilization. (3) (= Politics 320) A broadly based study of life in Central and South America that will include a preliminary study of the historical and geographical dimensions of the area, lifestyles and folkways, politics and political movements, and economic conditions.

(History)

- 356 State and Society in Modern Latin America.** (3) (= Politics 321)
A survey of the social, economic, cultural, and political development of Latin American states from the achievement of independence (the early national period) to the present time, employing case studies to illustrate the connection between the Latin American experience and that of the world of developing nations at large.
- 360 The Early Republic 1783-1820.** (3) This course examines the emerging nation in the wake of the American Revolution. Topics include the Confederation period, the Constitutional Convention, the battle over ratification, and the presidencies of Washington, Adams, Jefferson, Madison and Monroe.
- 361 Antebellum Period 1820-1850.** (3) This course examines the political, social, and economic forces that enlarged, enriched, and empowered the United States while simultaneously hastening the nation toward civil war.
- 366 Comparative New World Empires.** (3) A topical study of the colonial empires of the Spanish, Portuguese, French, Dutch, and English in the New World from 1492 to the mid-1700's. Emphasis is placed on the cultural interactions between Europeans and natives, the growth of creole societies, and the development of political and economic institutions, including slavery.
- 367 Colonial America.** (3) An examination of the history of the American colonies from their beginnings through their evolution into mature provincial societies. Emphasis is placed on the interactions among colonists, native Americans, and African slaves, as well as the development of distinctive regions.
- 368 The Frontier in U.S. History.** (3) A thorough examination of America's westward expansion and the impact of a frontier on the social, political, and economic development of the United States. Included will be a study of frontier life, myths, and legends.
- 369 Native American History.** (3) A detailed examination of North American Indian cultures and history from early colonization to the present including Indian wars, federal Indian policy, and the contemporary ethnocentric movement.
- 370 Revolutionary America.** (3) Study of the American Revolution era: the social and political causes of the rebellion, the war, the turbulent decade of the 1780's and the ratification of the Constitution. Emphasis is placed on the political debates of the period and the lives of ordinary Americans during these times.
- 371 Civil War and Reconstruction.** (3) Analysis of major problems of American history from the sectional conflict over slavery and secession through the war years and the reconstruction of the nation.
- 372 U.S. History 1876-1917.** (3) From the end of the Reconstruction to the First World War; Industrialization, Imperialism, and Reform.
- 373 U.S. History 1917-1945.** (3) Political, economic, social and cultural development during World War I, the "Roaring Twenties," the Depression, and the Second World War. F.

(History)

- 374 U.S. History 1945 to the Present.** (3) A study of the political, economic, social, and cultural development of the United States since the end of World War II, the “Cold War,” and the global confrontation between the United States and the communist world.
- 376, 377 The Foreign Policy of the United States.** (3 each semester)
(377=Politics 341) First semester: From the establishment of the foundations in the Colonial Period and Revolution to the background of World War I. Second semester: From World War I to the present.
- 383 History of the Colony and State of South Carolina.** (3) A study of South Carolina’s origins and development and a survey of recent South Carolina history with emphasis on social and institutional development.
- 384 History of Horry and Georgetown Counties.** (3) Insights into regional and local developments since the settlement of this area.
- 386 History of American Women.** (3) The social, political and economic roles and changing status of women in America.
- 387 Black Americans.** (3) A survey of the historical development of black people in the Western Hemisphere.
- 388 Hollywood’s America** (3) An examination of selected topics in American political, social and cultural history through the medium of Hollywood-produced films. Topics may include the filmed presentation of World War II, gender and race issues, Cold War American culture, and “American Memory” through film.
- 389 The New South.** (3) (Writing Intensive) (Prereq: sophomore standing) The Bourbon era, agrarian revolt, industrial revolution, racial problems, and the changes resulting from the impact of the Depression, New Deal, and two world wars.
- 390 History of American Business.** (3) (Prereq: History 201 or 202) The course will survey the American economy from colonial times to the late twentieth century. The development of agriculture, commerce, manufacturing, and finance will be explored. Emphasis will be given the roles of technology and innovation concurrent with territorial expansion. Students will review government policies regarding taxation, currency, labor, and banking.
- 399 Independent Study.** (1-6) (Prereq: Written contract between student and instructor, approved by the Associate Dean, College of Humanities and Fine Arts). May be repeated for credit under different topics.
- 443 Modern Colonialism.** (3) European colonial and imperial practices from approximately 1830 to the present. Course will explore settler colonialism, informal empire, cultural hegemony, “civilizing missions”, under-development, independence movements, and post-colonialism.
- 445 Postwar Japan: The Political Economy of Rapid Growth.** (3) This course surveys the development of Japan’s political economy since 1945. The study runs against a tide of neo-nationalist (and perhaps neo-liberalist) lit-

(History, Honors)

erature that depicts postwar Japan as homogeneously pro-capitalist, masculine, and comprised of the peoples and culture(s) of just one island group. Through a selection of monographs, interlaced with lecture and guided discussion, students will use the analytical frameworks of ethnicity, social class, work, and gender to re-engage the common perception that postwar Japan is a nation driven by an interventionist state in league with vertically integrated marketing and banking systems.

446 Age of Crusades. (3) (Prereq: History 101 or 111) This class examines the origins of crusading ideals, as well as the evolution of their religious, economic and military expressions. Particular attention is paid to the many variant perspectives expressed in documents of the period; these include Byzantine critiques of Western crusaders, Muslim depictions of Christian opponents, Jewish protestation of anti-Semitic acts, Christian rhetoric promoting crusade, and gendered responses to crusade.

450 The City in European History. (3) This course provides an overview European urbanization from antiquity through the present era in terms of multiple case studies.

492, 493, 494, Topics in History. (3 each semester) Reading and research on selected historical subjects. May be repeated for credit under different topics.

495 Internship in History. (3) (Prereq: Permission of Chair required) Open to senior history majors with a minimum 3.00 GPA and subject to availability. The supervised internship requires 120 hours of on-site employment, a journal, and a term paper. The purpose of the internship is to provide students with practical training and experience in history-related work and introduce them to local and regional employers in fields of applied history.

496 The Byzantine Empire (c300-1453). (3) A study of the eastern half of the Roman Empire, from the inauguration of Constantinople c.330, through the development of the Byzantine Empire as a distinct Medieval civilization, and ending with the Turkish conquest of 1453.

499 Senior Thesis. (3) A course designed to introduce the student to the principles of historical research and writing. History majors may apply during their junior year through the department chair. Only selected seniors will be admitted. Primary criteria are an outstanding academic record and a genuine interest in graduate school.

HONORS (HONR)

AN ENHANCED ACADEMIC CURRICULUM INCLUDES HONORS SECTIONS OF CORE CURRICULUM COURSES, ENRICHED COURSES WITHIN MAJORS, AND ADVANCED INTERDISCIPLINARY COURSES FOR JUNIORS AND SENIORS.

HONORS COURSES ARE RESTRICTED TO STUDENTS IN GOOD STANDING IN THE HONORS PROGRAM. REGISTRATION REQUIRES THE PERMISSION OF THE DIRECTOR OF THE HONORS PROGRAM. SEE THE DIRECTOR FOR ADDITIONAL COURSE OFFERINGS EACH SEMESTER.

(Honors, Italian, Japanese)

- 101 Honors Seminar.** (3) A humanities-based interdisciplinary course designed to introduce students to the foundations of human thought and expression through a selection of "great books" and "great works." Students will study artistic, literary, philosophical and historical achievements from multiple traditions in order to foster their own critical thinking, cultural awareness and civic engagement.

IN THEIR THIRD YEAR, HONORS PROGRAM STUDENTS TAKE COURSES IN THEIR MAJOR ARRANGED WITH THE INSTRUCTOR AND HONORS PROGRAM DIRECTOR FOR HONORS CREDIT.

- 325 Service Learning.** (3) Students will participate in public service with local agencies in order to understand the relationship between civic responsibility and higher education. In the classroom, students will reflect upon the function and necessity of their service as well as on its limitations in responding to specific community needs and general social problems.
- 399 Independent Study.** (1-6) This course will be offered as an elective to satisfy a Junior Level Honors Program requirement.
- 498 Honors Capstone Seminar.** (3) Reading and writing on a selected theme. Class presentations will be provided by faculty from a variety of disciplines.
- 499 Honors Senior Thesis/Project.** (3) (Prereq: Honors 498) Each student will plan, execute, and write about an original research project under the supervision of a faculty member in the student's major area of study.

ITALIAN (ITAL)

- 110 Introductory Italian.** (3) For students with no or very limited background in Italian. Emphasis on the mastery of the basic structure of Italian through intensive conversational exercise and practice. Development of reading and writing skills.
- 120 Introductory Italian II.** (3) (Prereq: Italian 110 or equivalent) Continued emphasis on the mastery of the basic structure of Italian through intensive conversational exercise and practice. Further development of reading and writing skills. Introduction to Italian culture.
- 130 Introductory Italian III.** (3) (Prereq: Italian 120 or equivalent) Continued emphasis on the mastery of the basic structure of Italian through intensive conversational exercise and practice. Further development of reading and writing skills. Introduction to Italian culture.

JAPANESE (JAPN)

- 110 Introductory Japanese I.** (3) For students with no or very limited background in Japanese. Emphasis on the mastery of the basic structure of Japanese through intensive conversational exercise and practice development of reading and writing skills. Introduction to Japanese culture.

(Japanese, Journalism)

- 120 Introductory Japanese II.** (3) (Prereq: Japanese 110 or by placement) Continued emphasis on the mastery of the basic structure of Japanese through intensive conversational exercise and practice. Further development of reading and writing skills. Introduction to Japanese culture.
- 130 Introductory Japanese III.** (3) (Prereq: Japanese 120 or by placement) Continued emphasis on the mastery of the basic structure of Japanese through intensive conversational exercise and practice. Further development of reading and writing skills. Introduction to Japanese culture.

JOURNALISM (JOUR)

- 200 Journalism.** (3) (Prereq: English 101 & 102) This course educates students in the basics of writing and design in mass media. It prepares students in writing for newspapers and magazines, and at the same time provides basic skills knowledge in layout and design of newspapers, newsletters, flyers, posters, etc. It is meant to be the prerequisite for all courses in the journalism minor.
- 201 Foundations of Journalism and Mass Communication.** (3) (Prereq: English 101,102) Survey of the history and principles of print journalism and the broadcast communications industry, concentrating on their development, philosophical foundations, processes, economics, influences on society, and directions for the future.
- 304 Journalism Writing and Reporting Skills I.** (3) (Writing Intensive) (Prereq: English 101, 102; Journalism 201) Workshop on the basics of preparing and producing news stories for a variety of media. Emphasis is on news judgment, writing copy, story development, reporting, interviewing, copy editing, and career options in the industry.
- 305 Journalism Writing and Reporting Skills II.** (3) (Writing Intensive) (Prereq: English 101, 102; Journalism 201, 304) Workshop on copy editing, investigative news reporting, feature writing, editorial writing, sports writing, and free-lance for magazines.
- 306 Journalism Law and Ethics.** (3) (Prereq: Journalism 201) The legal history and philosophy of the media in light of the First Amendment, including discussion of libel and slander laws, shield laws, the Freedom of Information Act, privacy laws, and other issues affecting the rights and responsibilities of the media.
- 307 Copy Editing.** (3) (Prereq: Journalism 201, 304) A rigorous workshop designed to develop editing skills. Students learn to catch fact, style, and grammar errors in copy; tighten and rewrite stories, create headlines, and manage deadlines.
- 308 Public Opinion and Propaganda.** (3) (Prereq: Journalism 201) This course offers historical analyses of propaganda as persuasive communication and explores how public opinion and propaganda impact each other and society. S, odd years.

(Journalism, Latin, Latin American Studies)

- 309 Introduction to Public Relations.** (3) (Prereq: Journalism 201) A survey course in the concepts, strategies, and tactics of public relations as a career field and as it relates to journalism, advertising, and marketing. S, odd years.
- 310 Writing for Broadcast.** (3) (Prereq: English 101, 102; Journalism 201) This course offers students an introduction to broadcast media as well as reporting. Students learn components of script writing, videotape editing and the impact of broadcast. S.
- 312 Writing for the Mass Media.** (3) The goal of this course is to instruct students in the art of writing for the mass media, in clear, concise, simple language that transmits information and ideas keeping in mind news values of timeliness, proximity, relevance and immediacy. Students learn what they must do to attract the media to news about an organization they might one day represent.
- 365 Women and Media** (3) (= Women's Studies 365) This is a survey course about the history of women's roles in the media, their contributions, employment, and media effects on women.
- 489 Journalism Special Topics Seminar.** (3) (Prereq: English 101, 102; Journalism 201 or permission of instructor) Exact topics will vary, but each will be an interdisciplinary seminar emphasizing the relationships between journalism, mass media, and various aspects of society. The course may be repeated for Journalism elective credit.
- 495 Journalism Internship.** (3) (Prereq: Journalism 201, 304, and 305) Students will receive professional experience and instruction in a substantial internship while working 10 hours per week with a local media organization. Contracts outlining content, supervision and grading criteria must be approved in advance by the Dean of the Edwards College of Humanities and Fine Arts.

LATIN (LATN)

- 110 Introductory Latin I.** (3) Fundamentals of the language. Practice in listening, speaking, reading, sentence analysis, and writing. Readings familiarize student with Roman culture.
- 120 Introductory Latin II.** (3) (Prereq: Latin 110 or by placement) A continuation of Latin 101 with the introduction of additional vocabulary and grammatical constructions.
- 130 Introductory Latin III.** (3) (Prereq: Latin 120 or by placement) Mastery of complex constructions and English translation. Emphasis on composition and oral/silent reading skills.

LATIN AMERICAN STUDIES (LATS)

- 326 Cuban Literature in Translation.** (= Spanish 326) (1-3) (Prereq: Permission of Instructor) (Coreq: Travel study in Cuba) Selected readings in Cuban literature in translation. Students will read, research and write on Cuban literature, society and culture. A non-refundable deposit is required upon registration.

(Latin American Studies, Marine Science)

- 399 Independent Study in Latin America.** (3) An independent study course conducted under faculty supervision in Latin America. The course may be conducted through any university department. It is normally taken by students enrolled in SPAN 350, Study Abroad.

MARINE SCIENCE (MSCI)

- 101 The Sea.** (3) (Coreq: Marine Science 101L) A non-technical introduction to oceanography for non-majors. Stresses basics of marine science and their relationship to people. Students may not receive credit for both Marine Science 101 and Marine Science 111. Three lecture hours per week. S, Su.
- 101L Laboratory for The Sea.** (1) (Coreq: Marine Science 101) Laboratory exercises to accompany Marine Science 101. Three laboratory hours per week. S, Su.
- 102 Environmental Geology.** (3) (=Geology 102) (Coreq: Marine Science 102L) The geologic processes and features that affect human usage and development of the earth's resources. Topics include natural hazards such as earthquakes, floods and volcanic eruptions, use of natural resources such as surface and ground water, soils and the coastal zone and contamination control. Three lecture hours and three laboratory hours per week. F, Su.
- 102L Environmental Geology Laboratory.** (1) (=Geology 102L) (Coreq: Marine Science 102) The environmental geology laboratory course focuses on active learning exercises demonstrating the dynamic interrelationships of Earth's inhabitants, natural resources and geohazards. Specific exercises, conducted in the classroom and in the field, concern the resources and geohazards associated with mineral and rocks, global plate motions, earthquakes and volcanoes, wetlands and coastal regions and land-use issues. F, Su
- 103 Navigation and Seamanship.** (3) An introduction to the theory of electronic, celestial and dead reckoning navigation with each applied to practical problems in the laboratory and at sea. Boat safety, boat handling at sea and in harbor, rules of the road, minor repairs, first aid and use of a boat as a marine sampling platform are presented and applied. One lecture and three laboratory hours per week. F, S.
- 111 Introduction to Marine Science.** (3) (Prereq or Coreq: Completion of, or concurrent enrollment in, Mathematics 131 or higher; Coreq: Marine Science 111L) An introduction to the general theory and principles of marine science covering the physical, biological, geological, and chemical characteristics of seawater and sediments. Three lecture hours per week. F, S.
- 111L The Present-Day Marine Environment Laboratory.** (1) (Coreq: Marine Science 111) Laboratory and field experiences to demonstrate the functioning of the marine environment. Three laboratory hours per week. F, S.
- 112 The Origin and Evolution of the Marine Environment.** (3) (=Geology 112) (Prereq: Geology 111 and 111L or Marine Science 111 and 111L) (Coreq: Marine Science 112L) Concepts concerning the origin and evolution of the earth and seas, with geological processes related to their development. The

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origin and evolution of life including primitive forms in the marine environment. Three lecture hours per week. F, S.

112L Marine Environment Laboratory. (1) (=Geology 112L) (Coreq: Marine Science 112) Laboratory and field experiences to illustrate the process of evolution in the oceans and associated marine life. Three laboratory hours per week. F, S.

301 Physical Oceanography. (3) (Prereq: Students must earn a grade of **C** or better in Marine Science 112, Mathematics 161 and Physics 212) (Coreq: Marine Science 301L) A comprehensive study of the field of physical oceanography. Topics include physical properties of the ocean, ocean dynamics, air-sea interactions, waves, tides, and the ocean's role in climate. In the lab, students analyze real-time global ocean data, and quantitative analysis skills are developed. Three lecture hours per week. F, S.

301L Physical Oceanography Laboratory. (1) (Coreq: Marine Science 301) The laboratory will demonstrate the topics and principles presented in lecture. Three laboratory hours per week. F, S.

302 Marine Biology. (3) (Writing Intensive) (= Biology 302) (Prereq: Marine Science 112 and Biology 122) (Coreq: Marine Science 302L) Study of the adaptive and evolutionary mechanisms by which organisms are able to occupy the various marine habitats. The evolutionary development of the diversity of marine organisms. Three lecture per week. F, S.

302L Marine Biology Laboratory. (1) (Writing Intensive) (=Biology 302L) (Coreq: Marine Science 302) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F, S.

303 Aquaculture. (3) (Prereq: Marine Science 112, Biology 122) A general introduction to the principles of culturing organisms, including types of culture, water quality, feeding, breeding, and diseases of common species. Three lecture hours per week. Each student will be required to give an oral presentation. F.

304 Marine Geology. (3) (=Geology 304) (Prereq: Marine Science 112) (Coreq: Marine Science 304L) A comprehensive study of the origin and development of the major structural features of ocean basins and the continental margins. Discussion of the techniques used in obtaining geological data and the interpretation of processes, vulcanism and the stratigraphy of ocean basins. Three lecture hours per week. F, S.

304L Marine Geology Laboratory. (1) (=Geology 304L) (Coreq: Marine Science 304) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F, S.

305 Marine Chemistry. (3) (Writing Intensive) (Prereq: A grade of **C** or better in Marine Science 111, 112, Mathematics 161 and Chemistry 112/112L) (Coreq: Marine Science 305L) An introduction to the chemistry of seawater, marine organisms and sediments. The impact of humans on the biogeochemistry of the ocean is emphasized. Laboratories involve the collection and chemical analysis of seawater. Techniques for solving word problems are developed during recitation. Three lecture hours per week. F, S.

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- 305L Marine Chemistry Laboratory.** (1) (Writing Intensive) (Coreq: Marine Science 305) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F, S.
- 311 Hydrographic Techniques.** (3) (Prereq: Marine Science 111) (Coreq: Marine Science 311L) Basic electrical and mechanical skills needed to operate standard shipboard oceanographic equipment. Maintenance and troubleshooting techniques will also be covered. Each student will be required to give an oral presentation. Two lecture hours per week. F.
- 311L Hydrographic Techniques Laboratory.** (1) (Coreq: Marine Science 311) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F.
- 316 Sedimentary Geology.** (3) (=Geology 316) (Prereq: Permission of instructor) (Coreq: Marine Science 316L) Introduction to concepts and practices in the field of sedimentary geology including classical stratigraphic concepts, elementary sedimentary petrology and depositional environments. Each student will be required to give an oral presentation. Three lecture hours per week. S.
- 316L Sedimentary Geology Laboratory.** (1) (=Geology 316L) (Coreq: Marine Science 316) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.
- 318 Physical Analysis of Sediments.** (3) (=Geology 318) (Prereq: Permission of instructor) (Coreq: Marine Science 318L) Detailed treatment of modern approaches to sedimentary analysis including textural and structural studies, mineral separation, beneficiation, and suspended sediment treatment of unconsolidated laboratory materials. Each student is required to give an oral presentation. Three lecture hours per week. F.
- 318L Physical Analysis of Sediments Laboratory.** (1) (=Geology 318L) (Coreq: Marine Science 318) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F.
- 321 Atmospheric Science.** (3) (Prereq: A grade of C or better in Physics 211) (Coreq: Marine Science 321L) An introduction to the fundamentals of atmospheric physics, meteorology, and climatology. All scales of atmospheric phenomena are examined from the global circulation to hurricanes. Emphasis is placed on current concerns such as ozone depletion, acid rain, and global warming. Three lecture hours per week. S.
- 321L Atmospheric Science Laboratory.** (1) (Coreq: Marine Science 321) The laboratory demonstrates the topics and principles presented in lecture, and students analyze real-time global data available on the Internet. Three laboratory hours per week. S.
- 331 Introduction to Geographic Information Systems (GIS) and Remote Sensing.** (3) (=Environmental Science 331) (Prereq: one Computer Science course and one Statistics course and Mathematics 160) (Coreq: Marine

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Science 331L) An introduction to the fundamental concepts of Geographic Information Systems (GIS) and remote sensing. Using a database tied to particular geographic coordinates, a GIS is an automated system for storing, transforming, analyzing and displaying spatial data. This course discusses input methods, data storage, data accuracy, data models, types of query and analysis, and map output. Each student designs, conducts and presents a term research project. Three lecture hours per week. F.

331L Introduction to Geographic Information Systems Laboratory.

(1) (=Environmental Science 331L) (Coreq: Marine Science 331) The laboratory demonstrates the topics and principles presented in lecture. It introduces students to GIS computer software and the collection, entry, storage, query, analysis and presentation of spatial data. Three laboratory hours per week. F.

355 Introduction to Environmental Ecotoxicology.

(3) (Prereq: Chemistry 111/111L, 112/112L, Biology 121, Mathematics 160) (Coreq: Marine Science 355L) Introduction to the impacts of pollutants upon ecological systems from a molecular to global perspective, the fate and transformation of chemical contaminants in the biosphere. Emphasis is placed on the integration and assimilation of chemical, biological and mathematical principles as they relate to the field of ecotoxicology.

355L Introduction to Environmental Ecotoxicology Laboratory.

(1) (Coreq: Marine Science 355) The lab focuses on quantitative inquiry-based exercises as well as an introduction to the techniques and analytical instrumentation used to detect and quantify contaminants in the environmental matrices.

375 Biology of Marine Mammals.

(3) (=Biology 375) (Prereq: Marine Science 302 or Biology 370) (Coreq: Marine Science 375L) A comprehensive survey of the biology and ecology of marine mammals, emphasizing the cetaceans, pinnipeds, sirenians, and sea otters. Major topics include evolution and classification, anatomy and physiology, feeding and trophic interactions, life history, social organization and behavior, communication and cognition, and interactions with humans. Each student will be required to give an oral presentation. Three lecture hours per week. F.

375L Biology of Marine Mammals Laboratory.

(1) (=Marine Biology 375L) (Coreq: Marine Science 375) The laboratory demonstrates the topics and principles presented in lecture. Each student will be required to give an oral presentation. Three laboratory hours per week. F.

376 Biology of Sea Turtles.

(3) (Prereq: Marine Science 302, Biology 122 or permission of the instructor) A comprehensive investigation of the evolution, biology, and ecology of sea turtles (order Chelonia) will be covered in this course. Topics to be focused on include: phylogeny, molecular evolution, anatomy, reproduction, ontogenetic changes, sensory capabilities, navigation, feeding behaviors, diving physiology, thermal biology, ecological roles, and matters of conservation. Eight lecture hours per week during the Summer.

376L Biology of Sea Turtles Laboratory.

(1) (Coreq: Marine Science 376) The laboratory demonstrates the topics and principles presented in lecture, involves

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field research, and conservation and regulatory interest site visitation. Eight to ten hours per week.

- 399 Independent Study/Internship.** (1-4)(Prereq: A contract must be approved by the instructor and the department chair by the time of registration). Directed study of specific topics or supervised work as part of an approved off-campus internship. F, S, Su.
- 401 Environmental Chemistry.** (3) (Prereq: Biology 121 and Chemistry 112 and 112L) (Coreq: Marine Science 401L) An introduction to the chemistry of natural and industrial processes. Current governmental approaches to regulation, treatment and storage of human wastes are also covered. Each student is required to give an oral presentation. Three lecture hours per week. F.
- 401L Environmental Chemistry Laboratory.** (1) (Coreq: Marine Science 401) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F.
- 402 Analytical and Field Methods in Environmental Chemistry.** (3) (Prereq: Marine Science 305 or Chemistry 321 or by permission of instructor) (Coreq: Marine Science 402L) Laboratory analysis and field sampling skills needed to conduct measurements of chemical and physical characteristics of water, soils, organisms, and the atmosphere. EPA methods including statistical techniques for quality control and assurance are taught, as well as techniques for computerized data recording, calculation, graphical presentation, and library researching. Students are given a background in instrumental theory for all equipment used. Each student is required to give an oral presentation. Three lecture hours per week. F.
- 402L Analytical and Field Methods in Environmental Chemistry Laboratory.** (1) (Coreq: Marine Science 402) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F.
- 403 Environmental Internships.** (3) (Prereq or Coreq: Marine Science 305 or Marine Science 401) Supervised work with a governmental agency, environmental organization, or commercial enterprise related to environmental concerns. Typical internships include experiences in environmental quality laboratories, landfill design and management, development and implementation of hazardous waste audits and recycling programs, as well as environmental education programs in composting and home hazardous waste disposal. Students must present their work as a written report and as an oral presentation in the College of Natural and Applied Sciences' Annual Student Research Symposium. Students are responsible for transportation to the work site. Six to nine hours on site per week. Course may be taken a maximum of two times. F, S, Su.
- 416 Hydrogeology.** (3) (=Geology 416) (Prereq: Marine Science 304 or permission of the instructor) This course will cover the elements of the hydrologic cycle, emphasizing ground and surface water movement through the hydrologic system. Topics will include hydrogeology, streams and floods, estuarine and wetland hydrology, properties of water, and the hydrologic continuum between rivers and the sea. Lecture will focus on theoretical aspects of water movement and the hydrologic system. Three lecture hours per week.

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- 416L Hydrogeology Laboratory.** (1) (=Geology 416L) (Coreq: Marine Science 416) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week.
- 420 Advanced Environmental Science.** (3) (=Environmental Science 420) (Prereq: Biology 122, Mathematics 160, Chemistry 112 and Physics 201 or 211) (Coreq: Marine Science 420L) Students actively investigate the earth system along with current environmental issues. Emphasis is placed on the integration of the many subsystems that comprise the earth system. Environmental issues are scientifically explored in an effort to develop sustainable solutions. The lab is project oriented, including both a local environmental study and a global remote sensing study. Three lecture hours per week. S.
- 420L Advanced Environmental Science Laboratory.** (1) (=Environmental Science 420L) (Coreq: Marine Science 420) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.
- 445 Coastal Processes.** (3) (Prereq: Marine Science 304, and Mathematics 161 or permission of instructor) (Coreq: Marine Science 445L) A comprehensive study of the physical and geological processes controlling the morphology and circulation within the coastal ocean. Beach, estuarine and shelf processes and environments are examined in detail. The importance of these processes to coastal management and protection is addressed. The course includes a laboratory where students will undertake a field study examining coastal processes and respond to, as well as discuss, relevant papers from the literature. Three lecture per week. S.
- 445L Coastal Processes Laboratory.** (1) (Coreq: Marine Science 445) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F.
- 455 Marine Botany.** (3) (=Biology 455) (Prereq: Biology 122, or Marine Science 302, or consent of instructor) (Coreq: Marine Science 455L) A field course in marine flora with emphasis on ecology and functional morphology. Work will stress the roles of marine bacteria, fungi, algae and angiosperms in coastal marine communities. Three lecture per week. F.
- 455L Marine Botany Laboratory.** (1) (=Biology 455L) (Coreq: Marine Science 455) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.
- 457 Marine Zooplankton.** (3) (Prereq: Marine Science 302 or Biology 310) (Coreq: Marine Science 457L) An introduction to the zooplankton populations found in coastal and oceanic waters. History of the field, sampling, ecological relationships, feeding, reproduction, and predator-prey interactions. Laboratory deals with the morphology and taxonomy of the major groups. Three lecture hours per week. S.
- 457L Marine Zooplankton Laboratory.** (1) (Coreq: Marine Science 457) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.

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- 458 Fisheries Science. (3)** (Prereq: Marine Science 302 and Math 160) An introduction to the practices and techniques of fisheries science. Topics include analytical and empirical models, stock assessment, age and growth analysis, mortality, recruitment and yield, production and early life history, harvesting techniques, and detailed study of important fisheries.
- 458L Fisheries Science Laboratory. (1)** (Coreq: Marine Science 458) The laboratory demonstrates the topics and principles presented in lecture.
- 472 Population Biology of Marine Organisms. (3)** (Prereq: MSCI 302 & 302 L or permission of instructor) The course will cover principles of population biology as related to marine organisms emphasizing theoretical and applied aspects of natural population dynamics and regulation, and development of skills for modeling and managing coastal marine populations. Specific topics covered include concepts of linear and nonlinear dynamics, demography, life history evolution, density dependence, population interaction models, individual based models, and larval ecology.
- 472L Population Biology of Marine Organisms Lab. (1)** (Prereq: MSCI 302 & 302L or permission of instructor) Laboratory accompanying MSCI 472.
- 473 Field Studies in Shark Biology. (2)** (Prereq: Biology 122 and permission of the instructor) An introduction to the biology of sharks. Lecture component held on campus covers evolution, anatomy, behavior, natural history, physiology, conservation and ecology. The one-week laboratory will be held at the Bimini Biological Field Station and will include capture and telemetry tracking of sharks and observation of sharks in both their natural habitat and captivity. F.
- 474 Ecosystems Analysis. (3)** (Prereq: Permission of instructor) (Coreq: Marine Science 474L) The formulation of compartment models of marine and terrestrial ecosystems with complex nutrient cycling, food chains and energy flow. Analog and digital simulation techniques investigating ecosystem stability, sensitivity, organization structure and diversity. Three lecture hours per week. S.
- 474L Ecosystems Analysis Laboratory. (1)** (Coreq: Marine Science 474) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.
- 475 Marine Ecology. (3)** (=Biology 475) (Prereq: Permission of instructor) (Coreq: Marine Science 475L) Principles of organismic environmental interactions in various marine habitats. Emphasis on marshes, estuaries, and coastal waters. Each student is required to give an oral presentation. Three lecture hours per week. F.
- 475L Marine Ecology Laboratory. (1)** (=Biology 475L) (Coreq: Marine Science 475) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. F.
- 476 Marine Plankton. (3)** (=Biology 476) (Prereq: Marine Science 302) (Coreq: Marine Science 476L) This course explores the structure and function of plank-

(Marine Science)

tonic communities. The role of phytoplankton, zooplankton and bacteria are examined in detail. Concepts such as: mineral cycling, energy flow, predator/prey relationships, trophic interactions as well as spatial and temporal dynamics are investigated in lecture, discussion, and an integrated laboratory setting. Three lecture hours per week. S.

476L Marine Plankton Laboratory. (1) (=Biology 476L) (Coreq: Marine Science 476) The laboratory will demonstrate the topics and principles presented in lecture. The laboratory consists of field studies conducted in estuarine and marine environments and may require weekend commitments. Three laboratory hours per week. S.

477 Ecology of Coral Reefs. (3) (=Biology 477) (Prereq: Permission of instructor) Principles of organization, structure, productivity and biological diversity of coral reef ecosystem, with emphasis on their sensitivity and stability. Three lecture hours per week plus a two-week field experience on a tropical coral reef. Su.

479 Marine Benthic Ecology. (3) (Prereq: Marine Science 302) (Coreq: Marine Science 479L) This course presents a comprehensive review of the structure and function of soft bottom marine communities. Taxonomic coverage ranges from microbial members (bacteria and microphytobenthos) to megafauna and demersal fishes. Ecological predation, cryptic coloration, diversity, benthic pelagic coupling and more. Three lecture hours per week. S.

479L Marine Benthic Ecology Laboratory. (1) (Coreq: Marine Science 479) The laboratory demonstrates the topics and principles presented in lecture. The lab involves group work in the field and laboratory culminating with oral presentations at the end of the course. Three laboratory hours per week. S.

487, 488, 489 Selected Topics in Marine Science. (1-4) (Prereq: Permission of instructor) These topics are designed to allow the development of seminars and courses in special areas of marine science. Offered on demand.

495 Marine Environmental Issues. (3) (Prereq: Marine Science 301 or 302 or 304, or 305 or by permission of instructor) (Coreq: Marine Science 495L) Theoretical and applied approaches to present day environmental problems are presented and critically discussed. Emphasis is placed on the solutions and future impacts. Students are presented overviews of several environmental issues and will generate a comprehensive analysis of the associated technical, economic, social and political issues and proposed solutions. The class meets with several state and federal agencies involved in present day environmental issues providing students with exposure to "real world" applications. Each student will be required to give an oral presentation. Three lecture hours per week. S.

495L Marine Environmental Issues Laboratory. (1) (Coreq: Marine Science 495) The laboratory demonstrates the topics and principles presented in lecture. Three laboratory hours per week. S.

497 Marine Science Senior Thesis. (3) (Prereq: Completion of the Marine Science Core or Permission of Chair. A contract must be approved by the instruc-

(Marine Science, Mathematics)

tor and the department chair by the time of registration.) Each student plans and executes an original research project with guidance and supervision of a Marine Science faculty member. Results are presented in written and oral form. Senior thesis is strongly suggested for students intending to pursue graduate studies. F, S, Su.

- 499 Directed Undergraduate Research.** (3-6) (Prereq: A contract must be approved by the instructor and the department chair by the time of registration.) Structured undergraduate research projects conducted with faculty direction and participation, or within the context of an approved off-campus internship. Projects explore marine or related problems using the scientific method. One conference and no less than five laboratory or field research hours per week. F, S, Su.

MATHEMATICS (MATH)

- 101, 102 Basic Concepts of Contemporary Mathematics I, II.** (3, 3) (Prereq: Placement test) Courses designed for liberal arts students not intending to take an advanced course in mathematics. Selected topics include number theory, set theory, logic, statistics, probability, consumer mathematics, the metric system, algebra, and geometry, with emphasis on critical thinking, problem solving, and applications to the liberal arts. F, S, Su.
- 130 College Algebra.** (3) (Prereq: Placement test) Properties of functions, techniques of graphing polynomial and rational functions, systems of equations, and properties and applications of exponential and logarithmic functions. F, S, Su.
- 130I Intensive Study.** (3) (Prereq: Placement test) Review of Intermediate Algebra, properties of functions, techniques of graphing polynomial and rational functions, systems of equations, and properties and applications of exponential and logarithmic functions. F, S, Su.
- 131 Trigonometry.** (3) (Prereq: Mathematics 130 or 130I or placement test) Right triangle and circular trigonometry, graphs of trigonometric and inverse trigonometric functions, trigonometric identities, solving trigonometric equations, vectors, complex numbers, and their applications. F, S, Su.
- 132 Calculus for Business and Social Science.** (3) (Prereq: Mathematics 130 or 130I or placement test) Limits, derivatives of algebraic, exponential, and logarithmic functions, curve sketching, applications to optimizing, and antidifferentiation. F, S, Su.
- 135 Pre-Calculus.** (4) (Prereq: Math placement) Properties of functions, techniques of graphing polynomial and rational functions, systems of equations, and properties and applications of exponential and logarithmic functions. Right triangle and circular trigonometry, graphs of trigonometric and inverse trigonometric functions, trigonometric identities, solving trigonometric equations, vectors, complex numbers, and their applications.
- 160 Calculus I.** (4) (Prereq: Mathematics 130 or 130I and Mathematics 131 or placement test.) Limits, continuity, differentiation and integration of algebraic

(Mathematics)

and transcendental functions, applications of the derivative to curve sketching, optimization and related rates. F, S, Su.

161 Calculus II. (4) (Prereq: Mathematics 160) Applications of integration, techniques of integration, conic sections, parametric equations, the polar coordinate system, vectors, sequences and series. F, S, Su.

174 Introduction to Discrete Mathematics. (3) (Prereq: Mathematics 130 or 130I) Set theory, logic, divisibility, matrix algebra, induction, combinatorics, relations, functions, digraphs, and Boolean algebra. F, S.

201 Mathematics for Early Childhood and Elementary Education Majors I. (3) (Prereq: Mathematics Placement Test results into Mathematics 130 or 130I) Set theory, the meaning of number and the structure of the real number system, algorithms, elementary number theory, and problem solving. F, S, Su.

202 Mathematics for Early Childhood and Elementary Education Majors II. (3) (Prereq: Mathematics 201) Informal geometry and basic concepts of algebra. Open only to students in early childhood and elementary education. F, S, Su.

203 Mathematics for Early Childhood and Elementary Education Majors III. (3) (Prereq: Mathematics 201 and 202) Coordinate geometry, algebra, probability and statistics, computer applications, and calculators. Open only to students in early childhood and elementary education. F, S, Su.

210 Introduction to Operations Research. (3) (Prereq: Mathematics 130 or 130I) Elementary matrix theory, systems of linear equations, linear programming, combinatorics, probability theory, and the theory of games. S.

220 Mathematical Proofs and Problem Solving. (3) (Writing Intensive) (Prereq: Mathematics 161 with a grade of C or better) Detailed investigation of the methods of mathematical proof: direct, indirect, induction, contradiction, case analysis and counter examples. Topics include set theory, functions, relations, cardinality, elements of number theory, elements of real analysis and elements of abstract algebra. Major emphasis placed on understanding, attacking and solving problems.

242 Modeling for Scientists. (3) (Writing Intensive) (Computer Usage) (Prereq: Mathematics 161) (Coreq: Mathematics 242L) An introductory course in the fundamentals of mathematical modeling for science and mathematics students. The class is designed to introduce students to concepts in mathematical modeling with differential equations. Models of population dynamics, growth and decay, rate balance and others will be discussed. An introduction of partial differential equations and diffusion modeling are discussed. Emphasis is on formulation and interpretation of the models. Computers are used to solve the models numerically. S, even years.

242L Modeling for Scientists Lab. (1) (Prereq: Mathematics 161) (Coreq: Mathematics 242) Students are introduced to a computer software package aiding in the solution of models developed in class. Lab assignments help students

(Mathematics)

understand concepts of mathematical modeling. Three (3) laboratory hours per week. S, even years.

- 260 Calculus III.** (4) (Prereq: Mathematics 161 with a grade of C) Lines, planes and surfaces in space; spherical and cylindrical coordinate systems; vector valued functions; differentiation of functions of several variables; multiple integration and applications; topics in vector analysis. F, S.
- 320 Elementary Differential Equations.** (3) (Prereq: Mathematics 161 with a grade of C) Ordinary differential equations of the first order, higher order linear differential equations, methods of Laplace transforms and series, and numerical solutions to differential equations. Applications to the physical sciences and engineering. S.
- 330 Geometry for Middle School.** (3) (Prereq: Mathematics 160) Plane and solid geometry taught from an inductive approach, using manipulatives and technology components such as Geometer's Sketchpad. Deductive reasoning and justification are included.
- 331 Foundation of Geometry.** (3) (Writing Intensive) (Prereq: Mathematics 220) The study of geometry as a logical system based upon postulates and undefined terms. The fundamental concepts and relations of Euclidean geometry developed rigorously on the basis of a set of postulates. Some topics from non-Euclidean geometry and topology. F, odd years.
- 332 Modern Geometry.** (3) (Writing Intensive) (Prereq: Mathematics 220) Projective geometry, theorem of Desargues and Pappus, transformations, convexity, and topology. F, even years.
- 344 Linear Algebra.** (3) (Prereq: Mathematics 161) Vector spaces, linear transformations, matrices, systems of equations, determinants, eigenvectors and eigenvalues. F.
- 349 Nonlinear Dynamics with Applications.** (3) (Prereq: Statistics 201) (Coreq: Mathematics 161) The basics of linear and non-linear difference equations and their relationship to linear and non-linear differential equations. Stability for first order equations and an introduction to chaos theory. Phase plane analysis, cobweb diagrams, and time series analysis. Emphasis on applications to real life scientific data. Offered on demand.
- 370 Elementary Number Theory.** (3) (Prereq: Mathematics 161 or permission of instructor) Divisibility theory, Diophantine equations, primes, congruences, Fermat's theorem, number theoretic functions, Euler's theorem, Pythagorean triples. Offered on demand.
- 397 Mathematics Practicum.** (1) (Prereq: Mathematics 260, GPA in mathematics courses greater than or equal to 3.0 and permission of the instructor) By working with faculty teaching introductory level college mathematics courses, students have the opportunity to enhance and/or increase their understanding of those concepts of mathematics that are the foundation of these courses. A student may not enroll in this course more than 3 times nor will the course satisfy

(Mathematics)

any requirement for the major or minor in mathematics or any core requirement. Course will be graded pass/fail. F, S.

- 399 Independent Study/Internship.** (1-4) (Prereq: A contract must be approved by the instructor and the department chair by the time of registration.) Directed study of specific topics or supervised work as part of an approved internship. F, S, Su.
- 434 Elements of General Topology.** (3) (Prereq: Mathematics 260) Elementary properties of sets, functions, spaces, maps, separation axioms, compactness, completeness, convergence, connectedness, embedding and extension theorems, metric spaces, and compactification. Offered on demand.
- 446 Abstract Algebra.** (3) (Prereq: Mathematics 220 and Mathematics 344 with a grade of C in both) Fundamental properties of groups, rings, and fields. S.
- 450 Advanced Calculus I.** (3) (Prereq: Mathematics 220 and 260 with a grade of C in both) Sequences, series, continuity, differentiation and integration, and sequences and series of functions. S.
- 452 Complex Variables.** (3) (Prereq: Mathematics 260 with a grade of C) Complex numbers and functions (trigonometric, exponential, logarithmic, hyperbolic, inverse, analytic, and harmonic), and complex limits, continuity, differentiation, integration, sequences and series. F.
- 454 Analysis.** (3) (Prereq: Mathematics 450 with a grade of C or permission of the instructor) Least upper bound axiom, metric spaces, continuous functions on metric spaces, completeness, compactness, existence of the Riemann integral, and the fundamental theorem of calculus. Offered on demand.
- 460 Numerical Calculus.** (3) (Prereq or Coreq: Mathematics 260 and a working knowledge of a programming language) Introduction to numerical methods, interpolation, quadrature, solution of linear and nonlinear systems of equations, and error analysis. Two lectures and two laboratories per week. S.
- 465 Applied Mathematics I.** (3) (Prereq: Mathematics 320 with a grade of C) Orthogonal sets of functions and the Sturm-Liouville eigenvalue problem; Fourier series and integrals, and solution of partial differential equations by separation of variables; boundary value problems in polar, cylindrical, and spherical coordinate systems, Bessel functions. F, odd years.
- 466 Applied Mathematics II.** (3) (Prereq: Mathematics 465) Mechanics of rigid bodies and particle systems in two and three dimensions, Lagrange's equations, and generalized coordinates. Offered on demand.
- 474 Discrete Mathematics I.** (3) (Prereq: Mathematics 160 and 174 with a grade of C in both) Mathematical models, mathematical reasoning, enumeration, induction and recursion, tree structures, networks and graphs, and analysis of algorithms. Applications to computer science are discussed. S.
- 490 Seminar in Mathematics.** (1) (Writing Intensive) (Prereq: Completion of 21 hours in mathematics in courses numbered 150 or higher) Problems from vari-

(Mathematics, Music)

ous areas of mathematics will be discussed with emphasis placed on developing the students capability to do research of an expository nature and to present their results in both written and oral form. F.

- 499 Directed Undergraduate Research.** (1-3) Topics in pure and applied mathematics and/or selected to meet current faculty and student interest. F, S, Su.

MUSIC (MUS)

A description of Applied Music courses follows the course descriptions of all other music courses.

- 100 Recital Class.** (0) Required attendance for all students enrolled in applied lessons. Attendance and participation in student performances, recitals, and seminars. Graded S or U.

- 110 Introduction to Music.** (3) A course open to all students who are interested in gaining a comprehensive appreciation of music through intelligent listening. Representative masterpieces of the various periods of musical composition are studied. Emphasis on correlation of music to other arts. No previous study of music is required. F, S.

- 115, 116 Introduction to Music Theory I, II.** (3 each) (Prereq: for 115, passing score on placement test and permission of instructor; 115 is prerequisite to 116.) Study of basic elements of music with emphasis on recognition by sight and sound. Various styles and genres of music are studied. Three class meetings per week.

- 117, 118 Ear Training and Sight Singing I, II.** (1 each) (Prereq: for 117, placement test and permission of instructor; 117 is prerequisite to 118.) The study of basic musicianship skills emphasizing, visual, aural, and kinesthetic recognition and reproduction of melodic intervals, chords, chordal progressions, and rhythmic patterns. Two class meetings per week.

- 124A Symphonic Band.** (1) Study, rehearsal and performance of wind band music written for large instrumental ensembles. Includes several performances and concerts. Emphasis on attaining high musical standards.

- 124C Colorguard.** (1) Colorguard functions as a component of the university marching band. Course is open to all majors.

- 124D Drumline.** (1) Examination of percussion performing techniques in an ensemble setting. Students participate in a drumline setting on percussion instruments. This is an ensemble experience designed to allow prospective teachers and performers to implement proper techniques used in school bands and professional performance.

- 124E Percussion Ensemble.** (0,1,2) The CCU Percussion Ensemble provides the opportunity for students to perform the various literature composed for percussion ensemble. Members of the ensemble will perform in several different sized groups from duos to large ensembles of eight to twelve players. The class is open to percussion majors and also to non-percussion majors. There is one

(Music)

concert presented by the percussion ensembles in April every year. This ensemble will also be performing at several area schools in the spring semester as part of a recruitment tour for the music department.

124M Marching Band. (1) Marching Band serves as a creative and performing outlet for university students. Additionally, music education majors gain valuable pedagogical experience.

124P Band/Pep. (1) (Prereq: The equivalent of three years of high school ensemble playing plus audition and/or permission of instructor) Rehearsal and performance of typical pep band music, with required participation in off-campus and on-campus events including athletics and public relations events. Open to all qualified students at Coastal Carolina and all qualified members of the local community. May be repeated; students should check with their major department regarding applicable degree credit.

124S Steel Drum Ensemble. (1) Study, rehearsal and performance of steel drum music indigenous to Trinidad and Tobago. Includes several performances and concerts. Emphasis on attaining high musical standards and proficiency.

125 Coastal Carolina Concert Choir. (1) Members are chosen by individual auditions. The course is devoted to the study of the best works of choral literature. Public concerts. F, S. May be repeated; students should check with their major department regarding applicable degree credit.

125C Coastal Carolina Chamber Choir. (1) (Course Restrictions: by audition/consent of instructor) Coastal Carolina Chamber Choir is a select mixed choral ensemble that is open to any Coastal Carolina student upon successful completion of an audition. This group serves as the choral ambassadors for the Coastal Carolina music department, maintaining an active performance schedule and participating each spring in a recruitment tour in conjunction with the Coastal Carolina Concert Choir and Symphonic Band. They perform repertoire of all styles and periods that is appropriate for a chamber choir, with emphasis placed on a cappella music from the Renaissance period. Students who are selected for Coastal Carolina Chamber Choir must also participate in Coastal Carolina Concert Choir, and priority for membership is given to students who can commit to participation for the entire academic year.

126 University Orchestra. (1) (Prereq: permission of instructor) A course consisting of rehearsals and performances with the Long Bay Symphonic Society, playing standard orchestral literature with a renowned conductor. May be repeated; students should check with their major department regarding applicable degree credit.

129 University Gospel Choir. (1) A course offering students an opportunity to learn gospel music and to sing at gospel gatherings across the state. May be repeated; students should check with their major department regarding applicable degree credit.

130 Ensemble. (1) (Prereq: Performing ability in the applied music area concerned) The study and performance of literature, and/or ensemble works for

(Music)

piano, organ, voice, strings, woodwinds, and brasses. Two class meetings per week. F, S. May be repeated; students should check with their major department regarding applicable degree credit.

130C Pop 101. (1) (Prereq: individual audition) A contemporary music ensemble dedicated to performing popular music styles since 1950's with an emphasis on Rock and Roll. May be repeated for credit; students should check with their major departments regarding applicable degree credit.

130P Ensemble-Piano Accompaniment. (1) (Prereq: Piano performance ability and permission of instructor) The study and performance of solo and ensemble works with piano accompaniments, including works for voice, strings, woodwinds, brasses, etc. Two meetings per week. Times to be arranged. May be repeated; students should check with their major department regarding applicable degree credit.

134 Jazz After Hours. (1) (Prereq: Audition and/or permission of instructor) Rehearsal and performance of jazz and dance band music, with possible participation in off-campus and on-campus events. Open to all qualified students at Coastal Carolina University and all qualified members of the local community. May be repeated; students should check with their major department regarding applicable degree credit.

167 Class Guitar I. (2) This class is designed for non-major beginning guitar students who are interested in incorporating active musical participation into their daily life experience. Students will develop competency in functional acoustic guitar techniques, basic music theory fundamentals, and the use of the guitar as an accompaniment to the voice. Students are responsible for providing their own acoustic or classical guitar. F.

168 Class Guitar II. (2) (Prereq: Music 167 or permission of instructor) This course is a continuation of Music 167, and it is designed to help students develop increased competency in acoustical guitar techniques. Students will develop musicianship through the use of the guitar as a solo instrument and as an accompaniment to the voice. Students are responsible for providing their own acoustic or classical guitar. S.

175 Piano Proficiency Lab I. (2) (Prereq: Permission of Department of Performing Arts) The first course in a two-course sequence that leads to successful completion of the music department piano proficiency requirement. Offered in a multi-keyboard lab for: 1) BA candidates with a major or minor in music; and 2) BA candidates in musical theater. Emphasis on the development of reading skills, performance from memory, accompaniment of simple melodies using I-IV-II7-V7 chords with various accompanimental patterns, and the performance of major/harmonic minor scales and arpeggios. F, S.

176 Piano Proficiency Lab II. (2) (Prereq: Permission of Department of Performing Arts) A continuation of Music 175, Music 176 culminates in the successful completion of the music department piano proficiency requirement. Taught in a multi-keyboard lab setting for: 1) the BA candidate with a major or minor in music (**Music 176 is NOT REQUIRED for the BA in musical theater**). Emphasis on the continued development of reading skills and performance from memory, reading

(Music)

of open instrumental and choral scores, reading of various combinations of clefs and transposing/non-transposing instruments, performance of dominant 7th and diminished 7th arpeggios, performance of vocal/instrumental accompaniments, and the transposition of grand staff notation to different keys. F, S.

215, 216 Theory and Literature I, II. (3 each) (Prereq: 116 is prerequisite to 215; 215 is prerequisite to 216) A chronological study, theoretical and historical, of music in the Western tradition through the end of the nineteenth century. Special attention to visual and aural skills. Three class meetings per week. F, S.

217, 218 Ear Training and Sight Singing III, IV. (1 each) (118 is prerequisite to 217; 217 is prerequisite to 218) The continued study of basic musicianship skills emphasizing visual, aural, and kinesthetic recognition and reproduction of melodic intervals in both tonal and atonal contexts, and more complex chords, chordal progressions, and rhythmic patterns. Two class meetings per week.

253, 254 History of Western Music I, II. (3 each) (Prereq: for Music 253, at least two semesters of college-level music theory. Music 253 is prerequisite to Music 254.) A study of music and its place in Western civilization from the Middle Ages to the Baroque (first semester) and from the Eighteenth Century to the Twentieth Century (second semester).

300 Junior Recital. (0) Minimum 30-minute solo recital. Repertoire to be selected in consultation with applied teacher.

333 Conducting and Score Reading. (2) (Prereq: Two semesters of college level music theory) Application of basic conducting techniques requisite for expressing style, patterns, dynamics and tempi; analysis of conductor's score and rehearsal practices common to both choral and instrumental music.

334 Choral Conducting. (2) (Prereq: Music 333) A study of the problems and techniques of choral conducting, principles of group tone production, and interpretive factors involved. Practical experience with college music organizations.

334B Instrumental Conducting. (2) A study of the problems and techniques of instrumental conducting, principles of group tone production, and interpretive factors involved. Practical experience with college music organizations.

357 American Popular Music. (3) (Prereq: Music 110 or its equivalent) A survey of American popular music from the 19th Century to the present. This music is explored regarding its musical characteristics, its relationship to the European classical tradition, and, where appropriate, its role as social commentary.

369B Wind Band Literature. (3) (Prereq: Music 333 & Music 334) A comprehensive study of wind band literature focusing on the instrumentation and works from the earliest beginnings to the present. Special emphasis on major pieces, composers, compositional styles, programming, and conducting.

385 Form and Analysis. (3) This course is an introduction to concepts of design, or form, in music as found in standard tonal literature. The primary focus of the course will be to learn how to perceive and analyze music. The intent is to have the

(Music)

student understand how tonality shaped the thinking of composers regarding how music is constructed, and to see how melody, harmony, and rhythm interact to create designs starting with phrases, and going on ultimately to entire compositions.

- 386 20th Century Music Theory.** (3) A survey course intended to acquaint the students with the changes in music's language and vocabulary that occurred during the twentieth century. Starting with the increased chromaticism of the later nineteenth century, the course will explore the changes in harmony, melody, rhythm, and form found in representative European and American composers.
- 399 Independent Study.** (3) For more information, see Academic Regulations. May be repeated for credits under different topics.
- 400 Senior Recital.** (0) Minimum 45-minute solo recital. Repertoire to be selected in consultation with applied teacher.
- 414 Piano Literature.** (3) (Prereq: Permission of instructor) Study of evolution and development of the instrument and its effects upon the repertoire illustrated by the major works of the various periods of piano composition. F.
- 415 Piano Pedagogy Internship.** (1) (Prereq: Junior Level and permission of the Instructor) (Coreq: Music 416) Piano Pedagogy and its application to the beginning piano student. Directed teaching of individual and group lessons.
- 416 Elementary Piano Pedagogy.** (3) (Prereq: Permission of instructor) Introduction to basic concepts, techniques, and materials for teaching elementary piano and intermediate piano. S.
- 420 Orchestration and Arranging.** (2) (Technology Intensive) To be able to write functional arrangements using current technology, with emphasis on the needs of the typical public school choral and instrumental ensemble. This course will introduce students to the instrument and vocal families and basic arranging and compositional concepts for a variety of ensembles. Both classical orchestration and jazz and commercial arranging will be covered as will the practical rearranging which is always required of school and church music directors (i.e. the CCU choir has no tenors at present). The aim is to give students the practical musical skill and technical knowledge needed to produce clean and correct scores and parts for performances by wind, brass, string, vocal, jazz, rock, and mixed ensembles.
- 434 Vocal Literature.** (3) (Prereq: Junior Level and permission of the instructor) A survey of solo literature for voice from the seventeenth century to the present.
- 435 Vocal Pedagogy Internship.** (1) (Prereq: Junior Level and permission of the instructor) (Coreq: Music Education 336) Study of the voice production, quality, classification, registration, range, anatomy and physiology. Directed teaching of individual lessons and ensemble rehearsals.
- 436 Elementary Voice Pedagogy.** (3) (Prereq: Junior level and permission of the instructor) (Coreq: Music Education 335) Introduction to basic concepts, techniques, and materials for teaching elementary and intermediate voice.

(Music, Applied Music)

453 Music and Musicians Since 1900. (3) A study of the impact of western music and musicians on contemporary American and European Life. Special attention will be paid to the increasing role of women in composition and performance of music.

469A Choral Literature. (3) (Prerequisites MUS 334A) A comprehensive study of choral literature focusing on works from the earliest beginnings to the present. Special emphasis on major pieces, composers, compositional styles, programming, and conducting.

APPLIED MUSIC (2 Credit Hours each)

Piano	101, 111, 112, 211, 212, 311, 312, 411, 412
Organ.....	102, 121, 122, 221, 222, 321, 322, 421, 422
Voice.....	103, 131, 132, 231, 232, 331, 332, 431, 432
String Instruments.....	104, 141, 142, 241, 242, 341, 342, 441, 442
Woodwind Instruments	105, 151, 152, 251, 252, 351, 352, 451, 452
(Flute, Clarinet)	
Brass Instruments	106, 161, 162, 261, 262, 361, 362, 461, 462
(Trumpet, Trombone, French Horn)	

(Music Education)

MUSIC EDUCATION (MUED)

- 163 Diction I.** (2) Introduction to International Phonetic Alphabet and to the basic fundamentals of enunciation and articulation in singing English, Latin, Italian, German, and French.
- 164 Diction II.**(2) (Prereq: Music Education 163) Continuation of Music Education 163.
- 165, 166 Class Voice I, II.** (2 each) (Prereq: for Music 165, permission of instructor. Music 165 or permission of instructor is Prereq to Music 166) Elementary course in singing in which both group and individual techniques are employed. Emphasis on the study of voice production and principles of singing. Two class meetings per week. 165 F, 166 S.
- 354 Music for Young Children.** (3) Emphasis on such topics as the place of music in the education of young children, free and dramatic interpretation of music, listening and rhythmic activity, and rhythm instruments. Designed for students in early childhood and elementary education. Three meetings and one laboratory period each week. F, S.
- 391 Fundamentals of Brass Instruments.** (1) The primary objective of this class is to give students who will eventually be teaching brass players a general working knowledge of the brass family of instruments. Students will have hands-on experience playing each of the brass instruments and will be presented with concise information regarding every facet of brass playing. At the completion of this course, students should be able to perform competently at the beginner level on each of the brass instruments and will possess a strong working knowledge of the technical aspects of the brass playing. Ultimately, the goal of the course is to provide the knowledge necessary to enable the student to be an effective educator for his or her brass students.
- 392 Fundamentals of Woodwind Instruments.** (1) The primary objective of this course is to give students who will eventually be teaching flute and single reed players a general working knowledge of the woodwind family of instruments. Students will have hands-on experience playing each of the instruments and will be presented with concise information regarding every facet of woodwind playing. At the completion of this course, students should be able to perform competently at the beginner level on each of the woodwind instruments and will possess a strong working knowledge of the technical aspects of playing. Ultimately, the goal of the course is to provide the knowledge necessary to enable the student to be an effective educator to his or her woodwind students.
- 491 Fundamentals of Percussion Instruments.** (1) The primary objective of this class is to give students who will eventually be teaching percussion players a general working knowledge of the percussion family of instruments.
- 492 Fundamentals of String Instruments.** (1) The primary objective of this class is to give students who will eventually be teaching string players a general

(Music Education, Philosophy)

working knowledge of the String family of instruments. Students will have hands-on experience playing each of the instruments and will be presented with concise information regarding every facet of String playing. At the completion of this course, students should be able to perform competently at the beginner level on each of the String instruments and will possess a strong working knowledge of the technical aspects of playing. Ultimately, the goal of the course is to provide the knowledge necessary to enable the student to be an effective educator for his or her String students.

PHILOSOPHY (PHIL)

- 100 Introductory Philosophy Seminar.** (0) This course will be an elective. This course is a general introduction to the study of philosophy. It introduces newly declared philosophy majors to the program, courses, and the faculty in the philosophy department at Coastal Carolina.
- 101 Introduction to Philosophy.** (3) This course is an introduction to the most central problems of philosophy. Topics include logic, God, mind, justice, personal identity, freedom and determinism, knowledge, skepticism, morality and responsibility. The course provides an introduction to argumentation, critical thinking conceptual analysis, and problem solving skills.
- 110 Introduction to Logic and Critical Thinking.** (3) This course provides an introduction to the essential elements in critical thinking, including the role of arguments and definitions, recognition of linguistic fallacies, and syllogistic and propositional techniques of deductive inferences. Extensive practical application will be examined, including specific examples for professional and graduate school admissions tests.

The Following Courses Require Sophomore Standing or Above, or Permission of the Instructor.

- 300 Ancient Philosophy.** (3) This course is a survey of the history of ancient Greek philosophy from the Milesians through Aristotle. It traces the development of philosophical themes among the Pre-Socratics and proceeds to their development in the works of Plato and Aristotle. The emphasis throughout will be on understanding, analyzing, and evaluating the arguments of the philosophers.
- 301 Modern Philosophy.** (3) This course is a survey of Western philosophical thought from the early Renaissance through Hume. The chief emphasis is on the 17th and 18th century including Bacon, Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley and Hume. This course may be taken prior to Philosophy 300.
- 302 18th and 19th Century Philosophy.** (3) (Prereq: Philosophy 101 and one philosophy course on the 300 level or permission of the instructor) This course centers upon philosophical developments after the Enlightenment period. The critical philosophy of Immanuel Kant (especially his *The Critique of Pure Reason*), the dialectical thought of G.W.F. Hegel and his anti-systemic critics are the focus of the course.
- 303 Continental and American Philosophy.** The principal movements of philosophical thought from Colonial times to the present, with special emphasis on the 18th and 19th centuries.

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- 305 Contemporary Moral Issues.** (3) This is a course in the application of ethical theory through the examination of moral issues confronting people in contemporary society. Topics vary but may include discussion of ethical problems related to abortion, drug use and laws, euthanasia, war and terrorism, homosexuality, violence, animal rights, the environment, and punishment.
- 309 Philosophy of Mind.** (3) (Prereq: Philosophy 101) This course is an introduction to the fundamental questions, concepts and problems of contemporary philosophy of mind including those concerning the nature of mind, the relationship between mind and world, and understanding consciousness. Readings from Ryle, Armstrong, Lewis, Block, Churchland, Dennett, Jackson, Shoemaker, Tye, Dretske, et al.
- 310 Philosophical Themes in Literature.** (3) Selected philosophical problems as they are presented in imaginative and theoretical literature. Works of fiction and philosophical treatments of issues involved in them are read and discussed.
- 311 Ethical Theory.** (3) (Writing Intensive) (Prereq: Philosophy 101 or consent of instructor) A study of moral principles and the basic concepts underlying these principles, such as good, evil, right, wrong, justice, value, duty, and obligation. Using the original source readings from both classical and contemporary moral philosophy, this course develops an understanding of the philosophical foundations of various ethical theories.
- 313 Philosophy of Art.** (3) Philosophical problems relating to the arts, with emphasis on questions pertaining to aesthetic experience.
- 314 Social and Political Philosophy.** (3) An examination of modern political philosophers, their responses to political, social, economic and legal concepts and issues concerning liberties and rights in the authority-individual relationship.
- 315 Technology and Human Values.** (3) (Prereq: Philosophy 101, permission of instructor) Technology has come to play an increasingly dominant role in human life. This course analyzes modern technology from several perspectives including: the ethical implications of employing information systems, the neutrality or non-neutrality of technology, the individual, social, and cultural impact of technology transfer, and the impact of technology upon the environment. The works of both critics and proponents of technology are explored.
- 316 Crime and Justice.** (3) The fundamental concepts of a criminal justice system, and their philosophical bases. Rights, privacy, responsibility, and the problem of justification of state control of private behavior through punishment and theory.
- 317 Bio-Medical Ethics.** (3) Ethical problems in medicine and biological research and the application of ethical principles to real-life situations involving patient autonomy, health care professionals, the beginning of life, the end of life, and human genetic experimentation.
- 318 Business Ethics.** (3) Ethical theory is presented and applied to business cases involving individual, corporate, and governmental rights and responsibilities.
- 319 Environmental Ethics.** (3) Ethical problems concerning the environment and the application of ethical principles to real-life situations involving development

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vs. preservation, humans and nature, animals, bio-diversity, bio- and eco-centrism, deep ecology, and social and public policy.

- 320 Existentialism.** (3) An introduction to existential themes in contemporary philosophy, literature, psychology and religion. The writings of existentialists such as Kierkegaard, Nietzsche, Camus, Sartre, Buber, May and Binswanger will be read and discussed.
- 321 Symbolic Logic.** (3) (Prereq: Philosophy 110 or permission of instructor) This course explains the development, application, and theoretical properties of an artificial symbolic language designed to provide a clear representation of the logical structure of deductive arguments. The course might also explore first order calculus with identity and function symbols and some metatheorems about consistency, soundness, completeness and compactness.
- 322 Philosophical Issues in Feminism.** (3) (Prereq: Sophomore standing or above) This course explores and critically examines philosophical topics in feminist thought, with a particular emphasis on one or more of the following: feminist ethics, feminist epistemology, feminist political philosophy, and feminist philosophy of science. Issues may include the nature of feminist theorizing and varieties of feminist theories; feminist perspectives on the self and the social world; moral agency, knowledge, and reason, the family, motherhood, and sexuality; liberty, justice, and the state.
- 325 Philosophy of Religion.** (3) This course focuses on some central questions in philosophy of religion. Is religious faith rational? Can God's existence be proved? Can religious experience provide knowledge? Is there life after death? Philosophy of religion subjects the claims of religious faith to rational scrutiny and critical evaluation.
- 340 Philosophy of Science.** (3) (Prereq: Philosophy 101 or permission of instructor) A critical examination of methods and concepts of the sciences. Topics include scientific revolutions, the unity of science, experimentation, explanation, and evidence.
- 398 Special Topics.** (3) (Prereq: permission of instructor) This course is designed as a seminar that will focus on a broad ranging philosophical topic that involves other disciplines as well as philosophy. Topics will be announced in the master schedule of classes.
- 399 Independent Study.** (3) For more information, see Academic Regulations section. May be repeated for credit under different topics.
- 399H Interdisciplinary Independent Study.** (3-9) Directed independent study at the honors level in two or more departments. For more information, see Academic Regulations section in this Catalog. May be repeated for credit under different topics.
- 419 Epistemology.** (3) (Prereq: Philosophy 101 and one philosophy course on the 300 level or permission of the instructor) This course is an introduction to the problems and methods of modern epistemology. It explores central questions

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such as “What is it to know something?” and “What is it about some beliefs that make them more highly justified than others?” The central focus of the course is the study of the relationship between justification and knowledge. It pays careful attention to the skeptic who claims that no one ever knows anything and that no one is ever justified in believing anything.

- 420 Metaphysics.** (3) (Prereq: Philosophy 101 and one philosophy course on the 300 level or permission of the instructor) This course focuses on issues that center around such notions as substance, causality, essential properties, individuation, time, possible but nonactual states of affairs, and identity. Among the questions considered are: “Do any of the things there endure through time?” “How should we understand possible but nonactual states of affairs?” “Are subjects of consciousness just complexes of subatomic particles?” “Are material objects like tables and chairs ultimately made up of things that have no parts?”
- 490 Capstone Seminar.** (3) (Prereq: Philosophy 311) This seminar engages philosophy majors in advanced research and discussion involving ethical theories, their philosophical foundations, and their application. Based upon the philosophy major's choice, the seminar will result in a written product either suited for submission to a scholarly journal or as a comprehensive final report for an applied ethics project.
- 495 Internship for Philosophy.** (3) Students will receive instruction and gain professional experience in an internship while working 10 hours per week for 12 weeks with a local business. Course contract must be approved prior to registration.

PHYSICAL EDUCATION (PHED)

- 107 Golf.** (1) Emphasis on the mastery of individual skills, history, rules, etiquette and tournament play.
- 110 Karate.** (1) Designed to teach the fundamentals of karate.
- 131 Orientation to Physical Education Teacher Education.** (1) (Prereq: Restricted to Physical Education Teacher Education majors; or Permission of Department Chair) The first in a 4-part series of courses entitled "The Physical Education Teacher Education (PETE) Series". This course provides the student with an introduction to the PETE Program, the Professional Program in Teacher Education (PPTE), field experiences in teacher education, and current professional practice in the field. Special emphasis is placed on understanding the mission of the program. A practicum experience is required (eight hours of observation at Elementary/Middle Levels.)
- 150 Ropes Course.** (1) An introduction to the use and benefits of a ropes course using the Challenge Course at Coastal Carolina as a laboratory. Participation focuses on accepted terminology, concept development, and skill acquisition. May be taken up to three times for credit.

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- 151 **Sailboarding.**** (1) Instruction in the art and skill of sailboarding. The student develops the necessary basic techniques to perform the activity. (Fee required) May be taken up to three times for credit.
- 152 **Angling.**** (1) Instruction in the proper techniques of bait casting, fly casting, and spin casting. Opportunities are provided for practicing each technique. (Fee required) May be taken up to three times for credit.
- 154 **Horseback Riding.**** (1) An introduction to the various aspects of horseback riding. The student develops the physical skills and the knowledge of safe practices and proper use of equipment. (Fee required) May be taken up to three times for credit.
- 155 **Orienteering.**** (1) Instruction in the use and knowledge of the compass and topographic maps. Students learn how to navigate a simple orienteering course. (Fee required) May be taken up to three times for credit.
- 157 **Cycling.**** (1) Students develop a knowledge of the types and uses of different bicycles. Safety equipment and safe riding techniques are stressed along with the different levels of intensity of training and use of cycles. (Students are responsible for furnishing their own bicycle.) May be taken up to three times for credit.
- 158 **Snow Skiing.**** (1) An introduction to the various aspects of snow skiing. Focus of the course is on skill and safety, correct attire and equipment, and skiing techniques prior to completing a ski trip. (Students are responsible for costs associated with the ski trip.) May be taken up to three times for credit.
- 160 **Wilderness Camping.**** (1) Exposure to and study of the wilderness environment. Emphasis is on conservation of the natural environment and camping without a trace. Students develop skills in various aspects of campcraft. (Students are responsible for costs associated with the trip.) May be taken up to three times for credit.
- 165 **Ballet.**** (1) Study designed to introduce fundamental skills and terminology as they apply to ballet. May be taken up to three times for credit.
- 166 **Jazz.**** (1) Study designed to introduce fundamental skills and terminology as they apply to jazz dance. May be taken up to three times for credit.
- 181 **Lifeguard Training.**** (3) (Prereq: Permission of instructor based on a preliminary swimming assessment during initial class meeting) Study designed to enable students to become certified through the American Red Cross in Lifeguard Training, Adult CPR, and Standard First Aid.
- 182 **Water Safety Instructor Training.**** (3) (Prereq: Permission of instructor based on a preliminary swimming assessment during initial class meeting) Study designed to certify the student as an American Red Cross Water Safety Instructor. Teaching methodology and strategies are developed to enhance instructional abilities.
- 183 **Skin and Scuba Diving.**** (1) (Prereq: Ability to swim well) Designed to enable students to use equipment safely and effectively and to understand the

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principles and physical laws upon which this sport is based. (Additional fees for supplies and equipment are required) May be taken up to three times for credit.

- 220 Lifetime Fitness.** (3) (Prereq: Restricted to Health Promotion, Physical Education or Recreation and Sport Management majors; or Permission of Department Chair) Covers the basic concepts, components, and skills of lifetime personal fitness. Emphasis placed on behavior change through participation in all physical fitness components, utilization of fitness tools, and the application of essential concepts. Provides the knowledge and skills to plan, evaluate, and achieve a personal program of fitness. Course includes topics of nutrition, weight and stress management, and disease prevention related to a healthy lifestyle.
- 225 Orientation to Physical Activity Skills.** (2) (Prereq: Physical Education 131) Provides students with an introduction to the history, rules, skills, strategy, and safety of the following sports: basketball, football, soccer, softball, tennis, track and field, and volleyball. Emphasis given to resource development and the development of basic skills necessary for upper level course work.
- 226 Developing Motor Behavior in Children (Pre-School Through Elementary Levels).** (3) Foundations and practices in perceptual motor learning; behavioral factors in efficient motor performance, and the effects of growth and development are studied in depth. Materials and methods in the selection and teaching of appropriate activities designed for the primary and elementary level child. Opportunities provided for teaching experiences.
- 230 Outdoor Activities.** (2) (Prereq: Physical Education 131) Introductory course for students in the Physical Education Teacher Education (PETE) Program. Activities include hiking/backpacking, orienteering, ropes course, adventure education/initiatives, rock climbing, and camping. Course emphasizes basic skills, safety, and active participation necessary to plan, implement and evaluate each activity. Students are required to demonstrate proficiency in each activity through participation, skills assessments, experiential trips, and written assignments.
- 231 Foundations and Service in Physical Education Teacher Education.** (1) (Prereq: Physical Education 131 or permission of Department Chair) The second in a 4-part series of courses entitled "The Physical Education Teacher Education (PETE) Series". This course emphasizes the foundations of the Physical Education and service within the surrounding community. Emphasis is also given to career development in physical education and sport. Credentialing and test requirements, and the development of lesson and unit plans. A practicum experience (eight hours of community service) is required, and students will be expected to complete a second personal fitness assessment.
- 232 History and Philosophy of Physical Education.** (3) (Prereq: Physical Education 131 or permission of Department Chair) Students will be provided with insight into the historical and philosophical basis of physical education and sport. This course covers physical education and sport from the ancient world, through the medieval and early modern Europe, the development of American physical education and sport to today's practices. Other topics addressed will be ethics, integrity, and problems in the profession, ancient and modern Olympics, international participation, current issues, technological advances, and future directions in the profession.

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- 235 Aquatic Activities.** (2) (Prereq: Physical Education 131; Physical Education 220; Proficiency in Basic Swimming) Introductory course for students in the Physical Education Teacher Education (PETE) Program. Activities include swimming, aquatic aerobics/fitness, snorkeling, and introductory scuba and kayaking. Course emphasizes basic skills, safety, and active participation necessary to plan, implement, and evaluate each activity. Students are required to demonstrate proficiency in each activity through participation, skill assessments, experiential trips, and written assignments.
- 290 Adapted Physical Activity.** (3) (Prereq: Physical Education 131 or permission of Department Chair) Methods of working with students with special needs within regular physical education classes. Planning, organizing, and implementing adapted physical education learning experiences to meet the needs of special populations. The course has a clinical experience.
- 301 Principles of Coaching.** (3) (=Recreation and Sport Management 301) (Prereq: Recreation and Sport Management 242) A study of coaching from a contemporary coaching education model. Principles focus on coaching athletes in recreation, amateur, and educational settings. Topics include philosophical, ethical, developmental, behavioral/psychological, instruction/pedagogical, and physical/training issues. Course also provides overview of coaching management and provides certification opportunity.
- 310 Physical Activity Skills.** (2) (Prereq: Physical Education 225 and 231, and admission to the Professional Program in Teacher Education) (Coreq: Education 410) Provides candidates with the skills and knowledge necessary to select and teach appropriate physical activities for the elementary school student along with the ability to analyze fundamental motor patterns. Opportunities are provided for peer-teaching and skill development.
- 311 Physical Activity Skills II.** (2) (Prereq: Physical Education 225, 231, and 310, and admission to the Professional Program in Teacher Education) (Coreq: Education 411) Provides candidates with the skills and knowledge necessary to select and teach appropriate physical activities, sport skills, and fitness activities for the middle school student, along with the ability to analyze motor patterns. Opportunities are provided for peer-teaching and skill development are provided.
- 312 Physical Activity Skills III.** (2) (Prereq: Physical Education 225, 231, and 311, and admission to the Professional Program in Teacher Education. (Coreq: Education 412) An advanced course focusing on development of the student's ability to research and teach a wide variety of physical activities suited to the high school population, with an increased emphasis on personal proficiency in team and individual sports, to include personal fitness, lifetime and outdoor pursuits.
- 320 Administration of Sport and Physical Education.** (3) (=Recreation and Sport Management 320) (Admission to Professional Program in Teacher Education or Permission of Department Chair) Course designed to introduce the undergraduate student to administrative duties of the physical education teacher, coach, recreation director, and athletic director. Topics of emphasis include organization structures, personnel management, budget planning, risk management, legal considerations, and evaluation for program accountability.

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- 325 Assessment and Technology in Physical Education.** (3) (Prereq: Physical Education 131 and Education 204) To provide the skills and knowledge for students in physical education utilizing a variety of current technologies and authentic assessment tools available and emerging in the field. To develop a working knowledge of the statistical techniques used in scoring, assessment, and interpretation of student performance and learning.
- 331 Professionalism in Physical Education Teacher Education.** (1) (Prereq: Physical Education 231 and admission to Professional Program in Teacher Education) The third in a 4-part series of courses entitled "The Physical Education teacher Education (PETE) Series". This course emphasizes professional development in the field, the surrounding community and within the PETE program. Candidates demonstrate competency through conference attendance and/or professional presentations. Teacher candidates also explore Praxis II exams and the development of the candidates' electronic portfolio. Completion of a third and final personal fitness assessment is required.
- 360 Motor Behavior.** (4) (Prereq: Admission to Professional Program in Teacher Education or permission of Department Chair) A study of the development (maturation and growth), acquisition, retention, and transfer of motor skills and behavior throughout the lifespan. Emphasis given to the underlying processes in the control, learning, and performance of motor skills. As a foundation course for motor skill practitioners working with a variety of ages and populations, the content blends principles of motor learning/control, motor development, and sport psychology.
- 385 Fitness Assessment and Exercise Prescription.** (3) (Prereq: Physical Education 220) Investigation of laboratory and field tests used to assess physical fitness components and principles of exercise prescription. Test results are used to develop individualized exercise prescriptions to improve cardio respiratory fitness, muscular fitness, body weight and body composition, flexibility, and stress levels.
- 397 Practicum in Coaching.** (3) A student may, with the permission of the coordinator of the program, elect to serve as an assistant coach in a sport at a junior or senior high school.
- 398 Practicum in Fitness.** (1) (Prereq: Physical Education 385 and 402) A faculty-supervised practicum within the Community Fitness Testing Program in Health Promotion's Smith Exercise Science Laboratory. Students apply the theoretical and conceptual knowledge gained in the Fitness Minor by conducting physical fitness testing and physical activity/exercise prescription for members of the Coastal Carolina community.
- 399 Independent Study. (1-3)**
- 401 Kinesiology.** (3) (Prereq: Biology 232/232L) (Coreq: Physical Education 401L) Analyzes human movement based on a knowledge of anatomy as applied to the function of the muscular skeletal complex.
- 401L Laboratory in Kinesiology.** (1) (Prereq: Biology 232/232L or Permission

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of Department Chair) (Coreq: Physical Education 401) An applied course that reinforces the basic principles and skills learned in kinesiology lecture (Physical Education 401). Emphasis placed on the analysis of real-world sport and fitness activities.

402 Exercise Physiology. (3) (Prereq: Biology 232/232L and Biology 242/242L) (Coreq: Physical Education 402L) Study of the physiological changes which occur in the body during muscular activity. Provides current research in fitness and test measurements currently available in the field.

402L Laboratory in Exercise Physiology. (1) (Prereq: Biology 232/232L and Biology 242/242L) (Coreq: Physical Education 402) An applied course that reinforces the basic principles and skills learned in exercise physiology lecture (Physical Education 402). Emphasis placed on the collection of real data and the generation of scientific lab reports.

404 Prevention and Care of Athletic Injuries. (3) Modern principles and practices in health-related fitness, conditioning and care of injuries. Procedures for care of related injuries. Emergency First Aid and Adult CPR. (Training room observations along with actual game experience). This course includes a fitness assessment for physical education majors.

410 Elementary School Physical Education Pedagogy. (3) (Prereq: Admission to Professional Program in Teacher Education) (Coreq: Physical Education 310) Foundations and practices in the development of fundamental motor skills, factors in creating efficient motor performance, and the effects of growth and development are studied in depth. Curriculum development, which address national and state standards, all three learning domains, and methods in the selection and teaching of appropriate activities designed for the elementary school child are explored. Candidates videotape teaching episodes, code teaching behaviors of their peers, conceptualize and write their own lesson plans, and write reflective journal entries based on teaching effectiveness. Evidence is placed in their electronic portfolio. A practicum experience of 20 hours is required. Teaching experiences are evaluated by both the cooperating teacher and the University faculty member.

411 Middle School Physical Education Pedagogy (3) (Prereq: Physical Education 231, and admission to Professional Program in Teacher Education) (Coreq: Physical Education 311) An investigation of innovative ideas for teaching middle school physical education. The development of lesson and instructional units, which meet national and state standards, are discussed along with the integration of other subject areas, assessing and grading students, motivating students, selecting teaching styles and strategies, and incorporating technology effectively. Candidates are responsible for videotaping teaching episodes, coding teaching behaviors of their peers, conceptualizing and writing their own lesson plans, and writing reflective journal entries based on teaching effectiveness. Evidence is placed in their electronic portfolio. A practicum experience of 20 hours is required. Teaching experiences are evaluated by both the cooperating teacher and the University faculty member.

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- 412 High School Physical Education Pedagogy** (3) (Prereq: Physical Education 331 and 411) (Coreq: Physical Education 312 and admission to the Professional Program in Teacher Education) Provides a study of curriculum, methods, techniques, and materials appropriate for preparation of high school teachers in physical education. The student will be expected to plan and implement specific unit plans and lessons in peer teaching situations and during a high school practicum experience (20 hours). Current best practice in pedagogy, curriculum, and assessment will be explored.
- 413 Exercise and Sport Nutrition.** (3) Investigates the basic, scientific, and applied concepts of nutrition and substrate utilization as they apply to energy production for exercise, body composition, weight control and thermoregulation. Emphasis given to analyzing nutritional behaviors for enhanced exercise and sport performance.
- 431 Internship Seminar in Physical Education Teacher Education.** (1) (Prereq: Physical Education 331 and passing scores on Praxis II) (Coreq: Education 479) The fourth and culminating experience in a 4-part series of courses entitled "The Physical Education Teacher Education (PETE) Series". This course focuses on candidate experiences within the internship process. Special attention is given to the candidates' preparation for their future professional career. The electronic portfolio addressing the NCATE/NASPE and ADEPT standards is completed and presented to their peers and faculty.
- 440 Advanced Athletic Training.** (3) Course designed to study modern practices in athletic training and care of injuries. Special emphasis on rehabilitation on the injured athlete.
- 450 Laboratory Skills in Exercise Science.** (3) (Prereq: Physical Education 402 or permission of instructor) Designed for students with at least one course in exercise physiology. Students become proficient in the use of the laboratory equipment currently available in the field and in the Exercise Science Laboratory. Students gain experience with data collection in a wide variety of pilot research experiments.
- 479 Internship (Physical Education).** (12) All Internship experiences are comprised of supervised teaching experiences in either the appropriate grade level or subject-matter area related to the student's area of emphasis. Interns are assigned to field placements for a period of no fewer than 60 instructional days. Pass/Fail credit.

PHYSICALLY ACTIVE LIVING SKILLS (PALS)

Personal Fitness Courses (102-124)

- 102 Fitness Walking.** (1) Introduction to low-impact, cardiovascular endurance activity of walking. Proper techniques of walking, warm-up, and cool down are practiced. Topics include benefits, injury prevention, weight management, and goal setting relative to a personal fitness program.

(Physically Active Living Skills)

- 103 Tai Chi.** (1) Provides a fundamental understanding and practice of the Tai Chi philosophy, principles, applications and benefits. Emphasis on basic practices of Chi-Gung.
- 104 Group Fitness.** (1) Provides a variety of exercise class formats to improve cardiovascular fitness. Formats include, but not limited to kickboxing, step aerobics, water exercise, yoga, circuit training, interval training, and hi-lo aerobics.
- 105 Yoga.** (1) Introduction to the basic physical and mental skills of yoga. Development of improved levels of somatic awareness, joint flexibility, muscle function, energy, stress management, mental focus, and injury prevention.
- 106 Step Aerobics.** (1) Introduction of the step form of aerobics as a cardiovascular workout. Basic step patters, routines, progression, and choreography are practiced. Topics also include basic exercise science and nutrition.
- 107 Pilates.** (1) Emphasis on the development of strength, flexibility and endurance. Body awareness skills include core stability and balance in areas such as pelvis, back, and shoulder girdle, neutral alignment, and patterned breathing.
- 108 Fitness Kickboxing.** (1) Introduction to kickboxing for cardiovascular and muscular fitness. Emphasis on basic kicking and boxing patterns, techniques, safe kicks, punches, and combinations. Topics also include concepts of improved aerobic endurance, muscular flexibility, balance, strength and tone, and nutrition.
- 109 Aquatic Fitness.** (1) Provides a safe and effective form of non- or low-impact progressive resistance exercise to develop muscular strength and endurance, improve cardiovascular fitness and increase flexibility. No swimming skills are needed for this aquatic class.
- 110 Indoor Cycling.** (1) Stationary cycling methods emphasizing aerobic and anaerobic endurance at all fitness levels. Topics include exercise science concepts, fitness principles and technology.
- 111 Jogging.** (1) Overview of the preparation, training principles, and suggested programs for jogging as exercise. Emphasis given to progression of fitness, techniques, fitness principles, safety and injury prevention, and personalizing program.
- 112 Personal Fitness Assessment.** (1) Provides assessment and prescription of the components of personal fitness. Emphasis on using current technology and assessment techniques to plan and monitor fitness activities to meet personal goals.
- 113 Triathlon Training.** (1) Provides training concepts and practice in the three elements of a triathlon: swimming, biking, and running. Students must know how to swim and provide their own bicycle and helmet. Some training activities may be held off campus.
- 114 Fitness Swimming.** (1) Emphasis on the refinement of swim strokes, wall turns, endurance swimming, and swimming for cardiovascular and muscular fit-

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ness. Students must first demonstrate competence in the four basic swimming strokes.

- 117 Beginning Strength Training and Conditioning.** (1) Introduction to resistance training to improve muscle strength and function. Emphasis placed on orientation to facilities and equipment, planning an effective program, fundamental principles and techniques of safe and effective muscular conditioning.
- 118 Intermediate Strength Training and Conditioning.** (1) Intermediate/advanced skills associated with strength training for fitness and muscle function. Strength training experience is expected, and topics include concepts such as muscle physiology, advanced training programs, and individualized goal setting.

Lifetime Sports Courses (125-149)

- 125 Beginning Golf.** (1) Fundamentals of golf for the beginning participant. Emphasis placed on essential techniques, concepts, rules and etiquette for successful participation. Course meets at Coastal's Quail Creek Golf Course.
- 126 Intermediate Golf.** (1) Fundamentals of golf for the experienced participant. Emphasis placed on practice and mastery of golf shots, strategy, rules and etiquette.
- 127 Beginning Tennis.** (1) Fundamentals of tennis for the beginning participant. Emphasis on basic tennis skills and techniques, rules, scoring and etiquette to participate successfully.
- 128 Intermediate Tennis.** (1) For the experienced participant, emphasis on mastery of strokes and shots, advanced strategies, match play and etiquette.
- 129 Indoor Racquet Sports.** (1) Introduction to the fundamentals of indoor racquet sports including but not limited to: racquetball, pickleball, and badminton. Emphasis on basic skills, scoring, rules, etiquette and strategy.
- 130 Lacrosse.** (1) Introduction to the basic skills and techniques for successful participation in the sport of lacrosse. Emphasis on skill progressions, rules, strategies and game play.
- 133 Beginning Bowling.** (1) For beginning participants, topics include basic technique, grip, approaches, releases, spot bowling techniques, rules, equipment, scoring and safety procedures. Course meets off campus.
- 134 Intermediate Bowling.** Emphasis on skill development for students with prior bowling knowledge and experience. Topics include strategy, accuracy, and scientific concepts. Course meets off campus.
- 135 Flag Football.** (1) Introduction to the basic skills, safety, history, rules and game strategies/variants, and fitness principles to participate successfully in flag football (co-ed).

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- 136 Soccer.** (1) Designed to teach fundamental skills for game performance, history, rules and game strategy.
- 137 Basketball.** (1) Study designed to introduce beginning and intermediate level skills instruction and strategies leading to active participation in game situations. May be taken up to three times for credit.
- 138 Volleyball.** (1) Study designed to introduce beginning and intermediate level skills instruction and strategies leading to active participation in game situations.
- 139 Softball.** (1) Designed to teach fundamental skills for game performance, history, rules and game strategy.
- 140 Fencing.** (1) Introduction to the basics of the sport of fencing. Emphasis on safety, equipment, techniques, strategic concepts, scoring and rules, physical and mental preparation, and a progression toward competition.
- 141 Rugby.** (1) Introduction to the rules and techniques for successful participation in rugby. Includes modified and international games and the development of basic game skills and tactical game situations.

Physical Activities Courses (150-180)

- 153 Canoeing and Kayaking.** (1) Introduction to canoeing/kayaking as a leisure activity. Emphasis on learning and practicing strokes mechanics, safety procedures, and trip planning on flat water. Some off-campus experiences required.
- 156 Beginning Rock Climbing.** (1) Introduction to the activity and development of basic rock climbing skills and techniques. Topics include safety, equipment, belay, fitness requirements, and climb variety.
- 159 In-line Skating.** (1) Techniques and concepts of in-line skating. Topics include safety principles, physical conditioning and fitness concepts, and equipment care. Skates provided if needed. Justification: Update courses for currency and demand.
- 161 Backpacking.** (1) Instruction in the fundamentals of backpacking for those students who have had previous camping experience and are interested in learning basic wilderness and survival skills, to include basic first aid, low impact camping methods, physical conditioning and environmental living skills. (Students are responsible for costs associated with the trip.) May be taken up to three times for credit.
- 162 Beginning Social Dance.** (1) For the beginning participant, emphasis on basic steps, patterns, and progressions of modern forms of social dance such as shag, salsa, tango, waltz, fox trot, swing, samba, and cha cha. Topics include social elements, etiquette, and fitness principles
- 163 Advanced Social Dance.** (1) (Prereq: PALS 162) For the experienced participant; practice and mastery of advanced dance patterns and forms including but not limited to: shag, salsa, tango, waltz, fox trot, swing, samba, and cha cha.

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- 164 Modern Dance.** (1) Introduction of fundamental skills, techniques, and concepts as applied to various forms of contemporary dance.
- 169 Beginning Swimming.** (1) For the beginning or non-swimmer. Emphasis on the basic swim strokes, water survival skills, and principles of swimming and water safety.
- 170 Introduction to Snorkeling and Kayaking.** (1) An introduction to breath-hold diving using surface support (snorkeling) systems and the basics of flat-water, wash-deck kayaking.
- 171 Beginning Scuba Diving.** (2) Concepts and practice of SCUBA life support systems and preparation for the SCUBA certification. Academic topics include safety, equipment, dive analysis, physics, physiology, health, and environment. Water skills include buoyancy control, communication, emergency procedures, breathing techniques, equipment management, and rescue skills. Certification and dive costs are required. May only be taken once for credit.
- 172 Advanced Scuba Diving.** (1) (Prereq: PHED 171 or equivalent certification). Theory and practice of NAUI advanced SCUBA diving techniques, skills and experience.
- 174 Scuba Rescue.** (1) (Prereq: PHED 172 or equivalent certification). To prepare divers to prevent or handle problems or emergencies. CPR and first aid training also covered.
- 175 Beginning Karate.** (1) An introduction to the fundamentals and basics of Karate. Emphasis on blocks, strikes, kicks, footwork, and fitness principles.
- 176 Intermediate Karate.** (1) An extension of karate fundamentals and basics. Emphasis on advanced blocks, strikes, kicks, and footwork to expand concepts of this martial art.
- 177 Self-Defense.** (1) An introduction to combative activities and self-defense skills. Emphasis placed on preventative measures for personal safety and protection.
- 178 Women's Self-Defense.** (1) An introduction to combative activities and self-defense skills. Emphasis placed on preventative measures for personal safety and protection for personal safety and protection for women and women's issues.

PHYSICS (PHYS)

- 101 Introduction to Physical Science I.** (3) (Prereq: C or above in six credit hours in mathematics or statistics or permission of the instructor) (Coreq: Physics 101L) The course teaches physical principles as they relate to the societal use of energy. The following energy technologies with their associated pollution problems are examined: fossil fuels, heat engines, hydroelectric power, nuclear power, solar power, energy conservation, and small scale energy systems. Three hours lecture per week. F, Su.

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- 101L Introduction to Physical Science I Laboratory.** (1) (Coreq: Physics 101) The laboratory will demonstrate the topics and principles presented in the lecture. Problem sessions and three laboratory hours per week. F, Su.
- 102 Introduction to Physical Science II.** (3) (Prereq: C or above in six credit hours in math or statistics or permission of the instructor.) (Coreq: Physics 102L) An introduction to physical science including physics, chemistry, geology, and astronomy. Three hours lecture per week. S, Su.
- 102L Introduction to Physical Science II Laboratory.** (1) (Coreq: Physics 102) The laboratory will demonstrate the topics and principles presented in the lecture. Problem sessions and three laboratory hours per week. S, Su.
- 201 General Physics I.** (3) (Prereq: Mathematics 131 with a C or above) (Coreq: Physics 201L) An introductory course for students not preparing for graduate work in physics. Includes a study of mechanics, thermodynamics and acoustics. Three hours lecture per week. F, S.
- 201L General Physics I Laboratory.** (1) (Coreq: Physics 201) The laboratory demonstrates the topics and principles presented in the lecture. F, S.
- 202 General Physics II.** (3) (Prereq: Mathematics 131 with a C or above; Physics 201) (Coreq: Physics 202L) A continuation of Physics 201 which includes acoustics, wave motion, electromagnetic theory, optics, relativity, atomic and nuclear physics. Three hours lecture per week. F, S.
- 202L General Physics II Laboratory.** (1) (Coreq: Physics 202) The laboratory demonstrates the topics and principles presented in the lecture. F, S.
- 203 General Physics III.** (4) (Prereq: Physics 202) A continuation of Physics 202 which includes optics, relativity, quantum mechanics, atomic physics and nuclear physics. Six hours lecture, problem sessions and laboratory per week. Offered on demand.
- 210 Physics for High School Teachers.** (4) (Prereq or Coreq: One year college physics; be under contract to teach in Horry, Georgetown, or Williamsburg County; and hold a valid South Carolina teaching certificate.) The course centers on mechanics, thermodynamics, wave motion, sound, light, electricity and magnetism, and nuclear physics. Applications emphasize problem-solving techniques. Mathematical concepts are taught on an algebra and simple trigonometry level. Appropriate computer programs are reviewed. Available for teacher recertification credit only. Offered on demand.
- 211 Essentials of Physics I.** (3) (Prereq: Math 160 with grade of C or better) (Coreq: Physics 211L) An introductory course for scientists and engineers. This calculus-level course covers classical mechanics and thermodynamics. Three hours lecture per week. F, S.
- 211L Essentials of Physics I Laboratory.** (1) (Coreq: Physics 211) The laboratory demonstrates the topics and principles presented in the lecture. Three hours of problem sessions and laboratory per week. F, S.

(Physics)

- 212 Essentials of Physics II.** (3) (Prereq: Physics 211 and Math 161 with a grade of C or better) (Coreq: Physics 212L) A continuation of Physics 211. This calculus-level course covers wave behavior, electricity and magnetism. Three hours lecture per week. F, S.
- 212L Essentials of Physics II Laboratory.** (1) (Coreq: Physics 212) The laboratory demonstrates the topics and principles presented in the lecture. Three hours of problem sessions and laboratory per week. F, S.
- 213 Essentials of Physics III.** (3) (Prereq: Physics 212 with a C or above) (Coreq: Physics 213L). Atomic view of matter, electricity and radiation, atomic models, relativity, x-rays, waves and particles, wave mechanics, radioactivity and nuclear processes. Three hours per week.
- 213L Essentials of Physics III Laboratory.** (1) (Coreq: Physics 213) The laboratory will demonstrate the topics and principles presented in the lecture. Three hours per week.
- 301 Analytical Mechanics.** (3) (Prereq: Physics 202 or 212 and Mathematics 161) A rigorous treatment of classical mechanics, including conservation of energy and momentum, rotating reference frames, physics of continuous media and wave motion. Three hours lecture per week.
- 302 Electricity and Magnetism.** (3) (Prereq: Physics 213, Mathematics 260) (Coreq: Mathematics 320) A more advanced treatment of the concepts of electricity and magnetism. Electrostatics, magnetostatics, dielectrics, Maxwell's Equations with applications, radiation, reflection, and dispersion. Three hours lecture per week.
- 303 Quantum Mechanics.** (3) (Prereq: Physics 213) (Coreq: Mathematics 320) Principles of quantum mechanics, including operators in Hilbert space, matrix mechanics, angular momentum, spin, perturbation theory, and application. Three hour lecture per week.
- 310 Mathematical Methods in Physics.** (3) (Prereq: Physics 212 and Mathematics 161) Physics applications of vector calculus, infinite series, complex analysis, differential equations, orthogonal functions, integral equations, linear algebra, and calculus of variations. Three hours lecture per week.
- 321 Electronics.** (3) (Prereq: Physics 212 or Physics 202 with permission of instructor) A lab-based class for the study of both analog and digital circuit elements, solid state devices, integrated circuits, and basic circuit design. One three hour class per week.
- 330 Computer Interfacing and Instrumentation.** (3) (Prereq: Physics 212 and Mathematics 161) Applications of computers as integrated to scientific instruments, with emphasis on hardware and instrumentation, on-line data acquisition, and computer control of experiments. Students learn and use Labview to interface equipment and control experiments. One three hour class per week.

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- 340 Intermediate Astronomy.** (3) Survey of diverse astronomical objects and the physical principles used in modeling them. Emphasis is placed on the observational basis and foundations of astrophysics. Stellar magnitudes, colors and spectra, the HR diagram, solar and stellar activity, binary stars, and stellar evolution will be examined.
- 341 Thermodynamics and Statistical Mechanics.** (3) (Prereq: Physics 212 and Mathematics 161) An introduction to thermal physics and statistical mechanics, covering entropy, heat, temperature, the Carnot Cycle, free energy, thermodynamic potential, phase equilibria, and the laws of thermodynamics. The connection between the interactions of single particles and the bulk properties of matter will be developed. Three hours lecture per week.
- 398 Physics Seminar.** (1) This course focuses on the presentation and discussion of current research topics and other issues of importance in physics or related fields.
- 399 Independent Study.** (1-6) (Prereq: Permission of instructor and approved contract) Directed study and/or research on specific topic. F, S.
- 399H Interdisciplinary Independent Study.** (3-9) (Prereq: Permission of instructor and approved contract) Directed study and/or research on specific topic of an interdisciplinary nature. F, S.
- 410 Optics.** (3) The interaction of light with materials; diffraction, refraction and coherent optics; methods of optical design. Three hours (lecture and lab inclusive) per week.
- 420 Solid State Physics.** (3) A study of the fundamental properties of solids, especially semi-conductors and metals, such as structure, conductivity, and models of solids. Applications of quantum and statistical mechanics to the thermal and electrical properties of various types of solids are made. Three hours lecture per week.
- 430 Fluid Mechanics.** (3) (Prereq: Physics 212) (Coreq: Mathematics 320) This course offers a comprehensive examination of the development of the Navier-Stokes equation in fluid motion. At the instructor's discretion, topics include theorems of energy, potential flow, elements of airfoil theory, and similarity parameters as well as the introduction to environmental fluid dynamics. Three lecture hours per week.
- 431 Geophysical Fluid Dynamics.** (3) (Prereq: Physics 301 and Marine Science 301) Development of the fundamental fluid dynamics used in analyzing and interpreting flows in the ocean and atmosphere. Fundamentals of vorticity dynamics and geostrophy, wave dynamics at various scales, general circulation, vorticity, numerical modeling, and dynamics of other planets.
- 431L Geophysical Fluid Dynamics Laboratory.** (1) This laboratory will concentrate on acquiring and processing atmospheric and oceanic data, in support of the concepts and applications studies in the lecture.

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- 432 Remote Sensing of the Environment.** (3) (Prereq: Physics 212) Detection and mapping of land and ocean resources with optical, infrared and microwave sensors. Digital analysis of images using multispectral and spatial analysis techniques and correlation with ground/ship data. Application to oceanography, coastal processes, geology, land use, geography, agriculture, climate and pollution studies.
- 432L Remote Sensing of the Environment.** (1) Students will learn to acquire, process and analyze digital remote sensing data from a variety of sources, using current computer technology. Students will also learn to take field measurements of spectral signatures to develop algorithms and to ground-truth remotely acquired data.
- 434 Atmospheric Physics.** (3) (Prereq: Physics 212 and Mathematics 260) Principles of fluid dynamics, thermo-dynamics and mathematics are used to develop an understanding of the atmosphere's dynamic (mid-latitude weather systems to planetary scale motions), radiative processes, and general circulation. Focus will also be placed on current problems in Atmospheric Science through reading and reviewing current publications. Three lecture hours per week.

POLITICS (POLD)

- 101 Introduction to World Politics.** (3) Principal forces and factors influencing world affairs, with emphasis on the role of the United States in issues relating to resources, food, arms control, human rights, the environment, rich and poor countries, the development gap and detente.
- 104 Regional Perspectives: The Middle East.** (3) A general introductory study of the Middle East, which considers the geographical implications of the Middle East, the role played by the Islamic religion on political and cultural life, and a brief consideration of the political problems that have troubled this area.
- 110 The American Criminal Justice System.** (3) An introduction to the structure of the law enforcement systems in the United States, from the local and state levels to the federal level. A consideration of the principal issues in law enforcement: arms control, internal security, organized crime and other problems of criminality.
- 201 American National Government.** (3) The formation and development of the national government, its organizations and powers.
- 300 Introduction to Political Theory.** (3) (Writing Intensive) Major themes in political theory, and one basic theme, as treated by three or four of the classical writers. Such matters as political obligation, order and freedom, the state, and justice are assessed to illustrate the enterprise of political theory.
- 302 Political Thought of Thucydides.** (3) (Writing Intensive) A study of the political thought of Thucydides through an intensive reading of *The War of the Peloponnesians and the Athenians*.
- 303 American Government Through Literature and Film.** (3) A survey of the various actors, institutions, and processes in the American political system

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by the use of fiction (motion pictures, novels, and plays). The roles of legislators, the judiciary, chief executives, and the press at the national, state, and local levels of government are included.

- 304 Latin America Through Film.** (3) (Prereq: sophomore standing or permission of instructor) An examination of major topics in Latin American civilization through lecture, reading and writing, and the viewing and critical analysis of feature-length film.
- 305 Introduction to Empirical Political Inquiry.** (3) (Prereq: Statistics 201, or Psychology 225, or Business 291 or permission of instructor.) An introduction to modern empirical methodology in political inquiry. A survey of the theoretical foundations of the modern quantitative approach to political inquiry; an introduction to theory building, data gathering, data analysis, data evaluation, and to the writing of a written report.
- 309 African-American Political Thought.** (3) (Prereq: Politics 201 and sophomore standing.) A survey of the issues and major figures in the African-American political tradition. Primary writings of selected thinkers, statesmen, or activists such as Frederick Douglass, Booker T. Washington, W.E.B. DuBois, Martin Luther King, Jr., and Malcolm X will be the major focus of the course.
- 315 International Relations.** (3) International political behavior and institutions.
- 316 Comparative Politics.** (3) Comparative approaches to political systems, behavior and institutions.
- 317 Comparative Revolutions.** (3) (Writing Intensive) (=History 317) (Prereq: sophomore standing) Case studies of the classic revolutions (American, French, Russian, and Mexican) and analyses of these and other revolutions as political phenomena. Attention will be given to the political philosophy of revolution.
- 318 International Political Economy.** (3) (Prereq: sophomore standing or permission of instructor) Examines the interaction between international politics and international economics.
- 319 European Fascism.** (3) A study of the philosophical and historical origins of the European Fascist movements that achieved significance in the twentieth century, followed by a survey of the actual process through which Mussolini's Fascist Party and Hitler's Nazi Movement won political power in the respective countries.
- 320 Introduction to Latin American Civilization.** (3) (=History 355) (Prereq: sophomore standing or permission of instructor) A survey of Latin American civilization from earliest times through the wars for independence.
- 321 State and Society in Modern Latin America.** (3) (=History 356) (Prereq: sophomore standing or permission of instructor) A survey of social, economic, political, and cultural development in Latin America during the nineteenth and twentieth centuries.
- 326 Politics and Government of Contemporary Cuba.** (3) (Prereq: Politics 101) (Coreq: Travel/study in Cuba) A writing/research seminar in which

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students write on a selected topic in contemporary Cuban politics. Travel to Cuba is required. A non-refundable deposit and instructor's permission are required upon registration.

- 339 Diplomacy** (3). An examination of the role of diplomacy in advancing national interest, with a particular emphasis on the role of the diplomat.
- 341 Contemporary American Foreign Policy.** (3) (=History 377) A historical and political analysis of twentieth century American foreign policy.
- 342 Politics and Governments of Europe.** (3) A comparative study of the individual governments of European societies, their interaction within international organizations like the European Community, and their political development since the end of the Cold War.
- 343 Terrorism and Political Violence.** (3) A survey of the historical and ideological origins of selected revolutionary and/or terrorist movements with a consideration of the role played by political violence in modern society.
- 344 Politics and Society in the United Kingdom.** (3) A consideration of political and social structures in England, Scotland, Wales, and Northern Ireland (Ulster).
- 345 Politics and Governments of the Middle East.** (3) Politics, religion, and conflict in the contemporary Middle East, with emphasis upon the Israeli-Palestinian conflict and the Persian Gulf situation.
- 346 The Politics of Central and Eastern Europe.** (3) (=History 327) Political life within and among those states that were once part of the former Soviet Union, as well as the previously Marxist countries of Central Europe.
- 360 American Political Parties.** (3) (Prereq: Politics 201 or permission of instructor) A survey of the role of political parties in the American political system. Following an examination of the historical evolution of party systems in the United States, primary attention is given to three aspects of contemporary political parties: the parties as an organization, the party as an electorate, and the party as a governing elite.
- 361 American Politics: Interest Groups.** (3) An examination of the role of interest groups in the operation of the American political system, with a particular emphasis on pluralist and elitist theories of democracy.
- 362 Mass Media and American Politics.** (3) (Prereq: Politics 201) The development and nature of the mass media; the influence of the media on American culture, politics, and government.
- 363 Southern Politics.** (3) Selected political patterns and trends in the eleven states of the American South, focusing on the post-1950 period.
- 365 State Government.** (3) A study of state-federal relations, relations among states, state constitutions, and the structure and functions of the three branches

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of government. Emphasis is given to South Carolina.

- 370 Introduction to Public Administration.** (3) A study of the basic principles and theory of administrative structure, responsibility, and control in relation to governmental management.
- 373 Public Private Partnerships.** (3) (Prereq: Politics 201) A survey of the various combinations of business and government joint ventures designed to address infrastructure needs and promote economic development. The focus is upon local governmental enterprises, but some attention is given to state and federal initiatives along with a comparative analysis of other nations' experiences.
- 375 Government and the Economy.** (3) (Prereq: Politics 201) A study of the historical and theoretical relationship between questions of economic policy and the character of the American political order.
- 399 Independent Study.** (1-6) (Prereq: Written contract between student and instructor, approved by the Associate Dean, Edwards College of Humanities and Fine Arts. May be repeated for credit under different topics.
- 401 History of Political Thought I.** (3) (Writing Intensive) A study of the history of political thought from Socrates through Aristotle.
- 402 History of Political Thought II.** (3) (Writing Intensive) A study of the history of political thought from St. Augustine through Hooker.
- 403 History of Political Thought III.** (3) (Writing Intensive) A study of the history of political thought from Hobbes through Rousseau.
- 404 History of Political Thought IV.** (3) (Writing Intensive) A study of the history of political thought from Hegel through Nietzsche.
- NOTE:** Any course in the HISTORY OF POLITICAL THOUGHT SEQUENCE (Politics 401-404) may be taken independently of the others.
- 430 Ideology and World Politics.** (3) An introduction to the ideological context of world affairs, with attention to traditional democratic, totalitarian and "Third World" development ideologies.
- 431 The Model United Nations.** (1) A brief study of the history, mission, policies, and procedures of the United Nations designed to prepare students for competitive participation in the annual Southern Regional Model United Nations conference in Atlanta. May be taken up to three times for credit.
- 435 Globalization.** (3) This course will survey the various theories and issues surrounding the process of Globalization and anti-Globalization within the study of International Relations. It will draw on historical, economical, financial, cultural, and political issues-areas of Globalization in a multitude of regions.
- 439 International Law.** (3) The origin, development and principles of the international law of peace and the enforcement of these principles. The law of war and pacific settlement disputes.

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- 440 South Carolina State Legislative Process.** (1) (Prereq: Politics 201 or permission of instructor) An introduction to the practice of state legislative procedures. Students are required to participate in the South Carolina Student Legislature activity. Students may take the course up to three times for elective credit only.
- 449 Constitutional Law I.** (3) (Prereq: Politics 201 or permission of instructor) An investigation of the U.S. constitutional principles and the Supreme Court decisions that have shaped the development of the Document.
- 450 Constitutional Law II.** (3) A study of judicial review, the political role of the courts, American federalism, the jurisdiction and limitations of the judicial branch, the power of taxation, the commerce power, the substantive and procedural rights of the individual, and the powers of the President.
- 452 The Judicial Process.** (3) A study of the growth of law, the law-making function of the courts, the structure and organization of federal and state courts, the procedures involved in civil and criminal cases, and the problems and proposals for reform in the administration of justice.
- 453 Regulatory Policies.** (3) An examination, primarily by the case method, of the law of public offices, the types of powers exercised by administrative authorities, the scope and limits of such powers, including relevant aspects of procedural process of law, and remedies against administrative action.
- 455 American Jurisprudence.** (3) (Prereq: sophomore standing or permission of instructor) An examination of the approaches and controversies concerning legal interpretation and legal reasoning in the American political order. A major focus of the course is constitutional interpretation. Readings will be drawn principally from the writings of major figures in American jurisprudence.
- 462 The Legislative Process.** (3) (Prereq: Politics 201 or the permission of instructor) A study of the structure, organization, powers, functions and problems of legislative bodies.
- 463 The American Chief Executive.** (3) (Prereq: Politics 201 or permission of instructor) The constitutional powers and political roles of the American President with lesser emphasis upon state governors. An analysis of the chief executive and administration, executive relationships with legislatures, and party and popular leadership by the executive.
- 467 American Local Government.** (3) A study of the powers, organizations, processes, and programs of municipal government, with special emphasis upon government in metropolitan areas.
- 473 Politics and Public Planning.** (3) The scope and nature of public planning in American government: federal, state and local. Types of planning agencies, their organizations, functions and authority.
- 488 Politics and Governments of Contemporary Latin America.** (3) (= History 356) The development, principles, political thought, and politics of the several Latin American states.

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- 491 Topics in Government and International Studies.** (3) Reading and research on selected subjects in Politics. Open to juniors and seniors with the permission of the instructor. May be repeated for credit under different topics.
- 495 Internship in Political Science.** (3) (Prereq: Politics 201 and junior level with 2.50 GPA or consent of instructor) Internships are available in local, state, or federal government offices. Students may do an internship for academic credit of three (3) hours and must work at least 120 hours at an organization during the semester registered. Grades are determined by a combination of the evaluation of the internship performance by the facility supervisor and faculty supervisor. Requirements are specifically stated in a contract to be signed by the student, faculty supervisor and facility supervisor.
- 496 Topics in Latin American Politics and Culture.** (3) A topical approach to Latin America employing a variety of teaching materials and techniques. Among the topics treated are women and race, recent and contemporary themes in Latin American civilization, political institutions and ideology.
- 497 The Discipline of Political Science.** (3) (Writing Intensive) (Prereq: completion of 75 credits or permission of instructor) Designed to be the capstone course for students majoring in political science, this course focuses on the nature and development of the discipline of political science. Particular attention is given to controversies concerning the scope and methods of conducting research in political science. Political Science majors should take this course no earlier than the last semester of their junior year. Since the concerns of this course are common to all of the social sciences, the course is open to and recommended for non-majors.
- 499 Senior Thesis.** (3) A course designed both to assess and improve research skills, writing ability, and general mastery of the field of politics. Under the close supervision of a member of the department, students will review primary and secondary source materials and write one 25-page thesis of graduate school quality.

PROFESSIONAL GOLF MANAGEMENT PROGRAM (PGMP)

- 102 PGM Seminar I.** (1) (Prereq: Acceptance into the Professional Golf Management Program) This seminar focuses on interpersonal skills and golf shop operations. S.
- 169 Club Management.** (3) (Prereq: Enrollment in Professional Golf Management Program) A study of management principles and techniques relevant to country clubs and other government, fraternal, health, recreational, and special interest organizations. (Course to be taken through Horry-Georgetown Technical College)
- 171 Introduction to Turf Management.** (3) (Prereq: Enrollment in Professional Golf Management Program) Designed to introduce principles of turfgrass management to the student interested in pursuing a career as a general manager or golf professional at a golf course. Topics include turfgrass selection, mowing,

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fertilization, irrigation, supplementary cultural practices, and management of turfgrass pests. (Course to be taken through Horry-Georgetown Technical College)

- 180 Internship in Golf Management I.** (1) (Prereq: Acceptance into the Professional Golf Management Program and a GPA of 2.5 or higher) Full-time supervised work experience at an approved golf course complex working for a Class A Professional Golf Association member. Pass/Fail grading only.
- 180I International Golf Internship I.** (6) Designed for students from a foreign country enrolled in the Professional Golf Management Program. Full time supervised work experience at an approved golf course complex working for a Class A Professional Golf Association member. Pass/Fail grading only.
- 201 PGM Seminar II.** (1) (Prereq: Acceptance into the Professional Golf Management Program and successful completion of Professional Golf Management 102) This seminar will focus on golf club design and repair, teaching golf, tournament operations, rules of golf and golfer development programs. F.
- 202 PGM Seminar III.** (1) (Prereq: Acceptance into the Professional Golf Management Program and successful completion of Professional Golf Management 201) This seminar will focus on customer relations, business planning and merchandising, and teaching golf. S.
- 280 Internship in Golf Management II.** (1) (Prereq: Professional Golf Management 180 and a GPA of 2.5 or higher) Continuation of Professional Golf Management 180... Pass/Fail grading only.
- 280I International Golf Internship II.** (6) (Prereq: Acceptance into the Professional Golf Management Program and GPA of 2.5 or higher) Designed for students from a foreign country enrolled in the Professional Golf Management Program. Full-time supervised work experience at an approved golf course complex working for a Class A Professional Golf Association member. Pass/Fail grading only.
- 282 Survey of Food and Beverage Management.** (3) (=Resort Tourism Management 282) (Prereq: not recommended at the freshman level.) Provides students with an opportunity to learn concepts and skills related to food and beverage service operations. Class time will be used to present concepts and base knowledge, while lab time will be used to develop actual food preparation skills and food and beverage costing techniques. F, S.
- 301 PGM Seminar IV.** (1) (Prereq: Acceptance into the Professional Golf Management Program and successful completion of Professional Golf Management 202) This seminar will emphasize turf-grass management, business communications, golf car fleet management and teaching golf. F.
- 302 PGM Seminar V.** (1) (Prereq: Acceptance into the Professional Golf Management Program and successful completion of Professional Golf Management 301.) This seminar will emphasize the Model Golf Shop concept that the PGA requires all PGM students to be exposed to. Emphasis will be given to merchandising operations, marketing, budgeting and cost controls, and human resource management. S.

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- 380 Internship in Golf Management III.** (1) (Prereq: Professional Golf Management 280, and a GPA of 2.5 or higher) Continuation of Professional Golf Management 280. Pass/Fail grading only.
- 380I International Golf Internship III.** (6) (Prereq: Acceptance into the Professional Golf Management Program and GPA of 2.5 or higher) Designed for students from a foreign country enrolled in the PGM Program. Full-time supervised work experience at an approved golf course complex working for a Class A Professional Golf Association member. Pass/Fail grading only.
- 480 Internship in Golf Management IV.** (3) (Prereq: Admission to the Wall College of Business, Professional Golf Management 380, and a GPA of 2.5 or higher) This internship will extend over two semesters during the student's senior year, and will include weekly classroom instruction in various aspects of golf management. Pass/Fail grading only.

PSYCHOLOGY (PSYC)

In order to enroll in any 400 level course students must be admitted to candidacy or obtain permission from the Department Chair.

- 101 General Psychology.** (3) A general introduction to the scientific study of behavior. The theme of basic research will be followed through the study of personality, learning and memory, cognition, developmental, social, abnormal, and the biological bases of behavior, in addition to some other selected topics. F, S.
- 225 Psychological Statistics.** (3) (Prereq: Mathematics 130 or equivalent) An introduction to basic descriptive and inferential statistical procedures and concepts. Topics include measures of central tendency, variation, probability, hypothesis testing, correlation, regression, and chi square. Students may not receive credit for this course if credit has been received from Business Administration 291 or Statistics 201. F, S.
- 225L Psychological Statistics Laboratory.** (1) Exercises and assignments to supplement the material presented in Psychology 225. F, S.
- 226 Research Methods in Psychology.** (3) (Writing Intensive) (Prereq: Psychology 101 and 225) An examination of the wide variety of procedures available to the behavioral scientist for collecting and analyzing behavioral data. Although experimental methods are to be emphasized, other methods such as surveys and questionnaires, interviews, naturalistic observation and case studies are covered. F, S.
- 226L Research Methods in Psychology Laboratory.** (1) Experiments; exercises and assignments to supplement the material presented in Psychology 226. F, S.
- 299 Career and Professional Development in Psychology.** (1) This course introduces interested students to areas of specialization in psychology and career opportunities within the discipline and related disciplines. Students will explore a variety of resources, including the Internet and Career Services, in order to assist students to find jobs, enter graduate programs, or pursue licensure/certification, etc., after graduation. Pass/Fail grading only.

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- 300 Human Sexual Behavior.** (3) (Prereq: Psychology 101 or permission of instructor) An examination of the psychological, social, behavioral, and cognitive aspects of human sexuality. Selected topics to be covered are sexual anatomy and physiology, contraception, sexually transmitted disease, sexual variations, commercial sexuality, and sexual violence.
- 301 Psychology of Marriage.** (3) (Prereq: Psychology 101 or permission of instructor) A survey of the psychological issues related to marriage. Topics include spouse selection, sexuality, child bearing, parenting, divorce, remarriage, and aging.
- 302 Developmental Psychology.** (3) (Prereq: Psychology 101) A survey of human development from conception through senescence, with attention to the physical, psychological, cognitive, and social characteristics of each state. Students are introduced to research methods used by developmental psychologists and the impact of their findings to everyday life.
- 303 Interpersonal Communication Skills.** (3) (Prereq: Psychology 101) An in-depth examination of communication processes with a practical emphasis on developing effective listening and speaking skills appropriate to an interpersonal context.
- 310 Psychology of Women.** (3) (Prereq: Psychology 101) The social, psychological and biological aspects of women's development are addressed and explored. The changing roles of women, and the impact of these changes upon present day lifestyles are also discussed.
- 333 Health Psychology.** (3) (Prereq: Psychology 101) A survey course exploring the relationships between behaviors and disease. The influence of psychological factors and precipitating, treating, and preventing disease is examined with the goal of increasing each person's awareness of individual responsibility in sickness and health.
- 340 Sports Psychology.** (3) (=Recreation & Sport Management 340) (Prereq: Psychology 101 or permission of instructor) The application of behavioral principles to enhance athletic performance and to promote human enrichment through sport-related activities. Topics studied include personality, attentional mechanisms, anxiety and arousal adjustment, cognitive-behavioral interventions, and motivation.
- 399 Independent Study.** (1-6)(Prereq: Written contract between student and instructor, approved by the Chair of the Psychology and Sociology Department.) F, S.
- 400 Human Learning.** (3) (Prereq: Psychology 101) In-depth examination of various kinds of human learning, from simple to complex behaviors. Topics include motor learning, verbal learning, attention, memory systems and models, forgetting, problem solving, and learning strategies and sets.
- 401 Cognitive Processes.** (3) (Prereq: Psychology 101) Experimental approaches to cognitive processes. Data and theory with respect to attention, information processing and storage, imagery, language, problem solving, creativity, decision making, cognitive development and growth, and concept formation.
- 402 Psycholinguistics.** (3) (=English 454) (Prereq: 6 hours of Psychology) A survey of selected aspects of the field focusing on the cognitive and behavioral

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foundations of child and adult language acquisition. Other topics may include developmental and catastrophic language disorders, neurolinguistics, and the language-thought interaction.

- 407 Principles of Learning.** (3) (Prereq: Psychology 101) A survey course covering the basic principles of human and animal learning. Topics include habituation and sensitization, classical and instrumental conditioning, principles of reinforcement, generalization and discrimination, punishment, escape and avoidance learning, basic principles of memory, and behavior modification techniques.
- 410 Abnormal Psychology.** (3) (Prereq: Psychology 101) A survey of the historical, social, and cultural implications of abnormal behavior. Topics include the nomenclature used to classify abnormal behavior, etiological factors and treatment procedures. F, S.
- 411 Abnormal Behavior in Children.** (3) (Prereq: Psychology 101 and junior standing or permission of the instructor) This course examines theories of childhood psychopathology and the classification of childhood disorders. Methods of assessment and treatment for specific childhood disorders are considered.
- 415 Human Neuropsychology.** (3) (Prereq: Psychology 101 and junior standing) An in-depth examination of the role of the brain and nervous system in human behavior and psychological disorders. Consideration of the consequences of brain damage and disease in human patients are the focus of the course, but conditions such as depression and anxiety in which there is no obvious brain pathology are also discussed.
- 420 Child Psychology.** (3) (Prereq: Psychology 101 and junior standing or permission of the instructor) This course examines principles, theories, and research methods used in the study of child development. Students are introduced to important physical, cognitive, social and personality changes which occur in each of the major stages from conception through the onset of puberty. Hereditary and environmental influences are explored in relationship to current research findings.
- 421 Psychology of Adolescence.** (3) (Prereq: Psychology 101) A detailed analysis of the developmental period from puberty to young adulthood, including physical, cognitive, psychological and social factors that influence human growth. Problems and issues unique to adolescents are researched and discussed.
- 423 Psychology of Aging.** (3) (Prereq: Psychology 101 or permission of instructor) An overview of the aging process in the adult. The physical, intellectual, social aspects of development will be traced through the major phases of young, middle- and late-adulthood.
- 425 Gerontology.** (3) (Prereq: Psychology 423 or permission of instructor) An in-depth analysis of the aging process in late adulthood through death and dying. Psychosocial influences on normal and diseased aging processes will be examined. An emphasis on procedures and strategies for effectively intervening with both well and frail elderly will enable the student to integrate knowledge of gerontology into a disciplinary context.

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- 428 School Psychology and Exceptional Children.** (3) (Prereq: A course in the area of child psychology or human development) This course describes exceptional children within educational settings. Topics will include giftedness, learning disabilities, mental disabilities, emotional/behavioral problems, and sensory/motor impairments. The characteristics, etiology, assessment and treatment of children within these categories will be examined.
- 430 Social Psychology.** (3) (=Sociology 320) (Prereq: Psychology 101) An examination of human behavior in social situations. Topics include attitudes and attitude change, affiliation and interpersonal attraction, prejudice, stereotypes, social order, conformity, altruism, territoriality, aggression, competition, cooperation, socialization, and communication.
- 440 Theories of Personality.** (3) (Prereq: 9 credits in psychology or permission of the instructor) A survey of the major personality theories of the “normal” individual as explanations of behavior and human differences. Topics include trait factor theories, psychodynamic theories, social/behavioral theories and humanistic theories. F, S.
- 450 Sensation and Perception.** (3) (Prereq: Psychology 101 or permission of the instructor) An in-depth study of each sensory system (orienting, cutaneous and kinesthetic sensitivity, olfaction, gustation, audition, vision). Topics include structures and functions within each system, development of systems, psychological perceptions and sensations, illusions, and interactions between systems.
- 460 Physiological Psychology.** (3) (Prereq: Psychology 101, or Biology 111 or Biology 232, Mathematics 130 and basic high school chemistry are recommended) A survey of the relationships between the nervous system and behavior. Topics include basic neuroanatomy and neurophysiology, signaling and information processing in the nervous system, psychopharmacology, and selected behavioral topics such as biological rhythms, hunger, thirst, learning and memory.
- 462 Animal Behavior.** (3) (Prereq: Psychology 101 or Biology 111) The identification and classification of behavior patterns exhibited by various species of animals and the determination of relationships among behaviors of such species together with their origins and development.
- 465 Psychology and the Law.** (3), (Prereq: Psychology 101 or permission of the instructor) This course is designed to examine the multiple and ever-expanding roles that psychology plays in the legal/criminal justice system. Topics include legal procedural issues, pretrial publicity issues, jury selection, eyewitness identification and testimony, lineup procedures, presentation of scientific evidence, expert witnesses, jury decision-making, death penalty, and insanity pleas.
- 470 Industrial/Organizational Psychology.** (3), (Prereq: Psychology 101 or permission of instructor) This course provides an introduction to the area of industrial/organizational (I/O) psychology and how psychological research is applied to behavior in the workplace. Topics include recruitment and selection of employees, the effects of job satisfaction and job commitment on performance, antecedents and consequences of work-related stress, and motivation and leadership.

(Psychology)

- 480 Intermediate Statistics.** (3) (Prereq: Psychology 225 and Mathematics 130) An examination of additional topics in applied behavioral statistics. Topics include linear correlation and regression, hypothesis testing, analysis of variance, and multivariate statistics. F, S.
- 480L Intermediate Statistics Laboratory.** (1) Exercises and assignments to supplement the material presented in Psychology 480. F, S.
- 483 Principles of Psychological Testing.** (3) (Prereq: Psychology 225 or permission of the instructor) A survey of the psychometric process. Topics include the principles of measurement and test score interpretation, discussion of the variety of group and individual tests available for psychologists and the criteria for selecting and evaluating tests. Three lecture hours per week. F, S.
- 483L Principles of Psychological Testing Laboratory.** (1) Exercises and assignments to supplement the material presented in Psychology 483. F, S.
- 484 History and Systems of Psychology.** (3) (Prereq: at least 9 credit hours in psychology are recommended; Philosophy 101 is also recommended) This course is a comprehensive, in-depth study of approaches and recognized contributors to the scientific study of human behavior. Students are introduced to how and why psychology emerged, and the impact that past contributions have made to present-day status.
- 486 Substance Abuse.** (3) (Prereq: Psychology 101 or permission of the instructor) An introduction to research findings and theoretical considerations in the use and abuse of pharmacological agents such as alcohol, barbiturates, narcotics, tranquilizers, and stimulants. Emphasis will be placed upon concepts of diagnosis, treatment, and prevention.
- 489 Special Topics in Psychology.** (3) (Prereq: Permission of the instructor) A topical or research interest not offered in an existing course.
- 490 Internship.** (3) (Prereq: Permission of the instructor) Interns work a minimum of 100 hours in an agency, organization, or business that is of interest to the student and/or where students wish to gain practical experience. Students are supervised by a department faculty member and will abide by the procedures outlined in an Internship Agreement.
- 495 Gerontology Internship.** (3) (=Sociology 495) (Prereq: Psychology 423, Sociology 495, and three additional gerontology program courses) The internship provides experience working with both well and frail older persons and requires a minimum of 104 hours with an approved agency. The internship is supervised by the program director and an on-site professional with a specialized terminal degree and/or significant demonstrated experience. Contracts outlining practicum requirements must be written and approved by the host agency, the director of the gerontology program, and the chair of the Department of Psychology and Sociology.
- 497 Applied Research in Psychology.** (3) (Writing Intensive) (Prereq: Psychology 101, 225, 226) A research experience in which students are required to

(Psychology, Recreation and Sport Management)

develop a research project, conduct a literature review, gather and analyze data, prepare a research paper in accord with the standards of the American Psychological Association (APA) and present their research. Motivated students are encouraged to complete this course in their junior year and continue research pursuits during their senior year. F, S.

497L Applied Research in Psychology Laboratory. (1) Exercises and assignments to supplement the material presented in Psychology 497. F, S.

498, 499 Individual Research. (1-3) (Prereq: 15 credits including Psychology 225 and 226) Each student plans and executes one or more original research projects under the instructor's supervision. Psychology 498 is not Prereq to 499. F, S.

RECREATION AND SPORT MANAGEMENT (RSM)

210 Recreational Activities. (3) An exploration of a variety of activities appropriate for use in any recreational setting. Areas of concentration will include music, crafts, nature, special events, fitness, leisure counseling, and socialization. Emphasis is placed on the acquisition of activity skills.

242 Introduction to Recreation and Sport Management. (3) The significance and meaning of recreation, leisure, play, and sport in modern society, theories of play, models of sport, and the recreational and sport movement in the United States. Role and scope of recreation and sport programs in the community, schools, commercial, and industrial settings. Introduction to professional and career issues in the field.

280 Recreation for People with Disabilities. (3) (Prereq: Recreation and Sport Management 242). An Introduction to the concepts and professional approaches to recreation service delivery for people with disabling conditions. Appreciation for human diversity and impact of differences on recreation involvement.

301 Principles of Coaching. (3) (=Physical Education 301) (Prereq: Recreation and Sport Management 242) A study of coaching from a contemporary coaching education model. Principles focus on coaching athletes in recreation, amateur, and educational settings. Topics include philosophical, ethical, developmental, behavioral/psychological, instruction/pedagogical, and physical/training issues. Course also provides overview of coaching management and provides certification opportunity.

305 Sports Officiating . (3) A study of the philosophy and principles of sports officiating. Content includes rules and mechanics for officiating of various seasonal sports, with practical/field experiences. Includes observation and evaluation of officials in recreational, high school and collegiate settings with certification opportunities.

309 Youth Sport. (3) (Prereq: Psychology 101 or Sociology 101 or 102) An investigation into the issues of children participating in organized and competitive sport. The course examines youth sports from biological, psychological, and sociological perspectives. Emphasis is placed on the impact of sport managers

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and leaders in the delivery of youth sport programs. Comprehensive survey of current scientific knowledge and examination of changing attitudes, behaviors, and trends in youth sport.

- 310 **Campus Recreation.**** (3) (Prereq: Recreation and Sport Management 242) An introduction to collegiate recreation and intramural sports programs including professional ethics and issues, facility operations, program management, legal liability and risk management, marketing, fiscal management, and social issues.
- 315 **Outdoor Recreation.**** (3) (Prereq: Recreation and Sport Management 242). An overview of the role of the natural world in recreation services. The course will focus on values of outdoor recreation, adventure recreation, environmental impact, and the role of government in the provision of outdoor recreation.
- 317 **Sport Law and Ethics.**** (3) The course provides a survey of the ethical and legal issues confronting sport in contemporary society. Students use a case study approach to become familiar with interconnecting legal and ethical issues as they arise within the context of sports from youth to professional levels.
- 320 **Administration of Sport and Physical Education.**** (3) (=Physical Education 320) (Prereq: Recreation and Sport Management 242) Course designed to introduce the undergraduate student to administrative duties of the physical education teacher, coach, recreation director, and athletic director. Topics of emphasis include organization structures, personnel management, budget planning, risk management, legal considerations, and evaluation for program accountability.
- 337 **Legal Issues in Recreation and Sport.**** (3) (Prereq: Recreation and Sport Management 242). An overview of the role local, state and federal governments have in the provision of recreation and sport services. Provide the basic understanding of legal liability, risk management, negligence, standard of care, safety regulations, and other legal subjects as they apply to recreation and sport.
- 340 **Sport and Exercise Behavior.**** (3) (=Psychology 340) (Prereq: Psychology 101 or Sociology 101 or 102) An overview of basic concepts and principles essential to understanding the psychological and behavioral aspects of sport and exercise. Emphasis is given to the conceptual frameworks and the applied aspects of sport performance enhancement and mental skills, exercise behavior and motivation, sociological factors, and health and well-being. Applications are made to future practitioners of coaching, teaching, sports medicine, counseling, sport management, and fitness instruction.
- 350 **Ecotourism.**** (3) An introduction to the scope, characteristics, and management aspects of the ecotourism industry (of a select country). The course offers a blend of conceptual and practical material to help achieve a basic understanding of this diverse industry. (Requires travel).
- 352 **Commercial Recreation.**** (3) (Prereq: Recreation and Sport Management 242). Basis principles and steps of initiating and conducting a commercial recreation enterprise, designed to offer students practical experience in starting a commercial recreation business.

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- 369 Sports Marketing and Promotion.** (3) (Prereq: Business Administration 350). An application of fundamental marketing and promotion concepts to the sport industry. Special emphasis is placed on understanding the relationship between sport products and sport consumer markets. Students will utilize the analysis, strategy development, implementation, and evaluation phases of the sport marketing process.
- 377 Sport Tourism.** (3) An introduction to the scope, characteristics, and management aspects of the sport tourism industry. The course offers a blend of conceptual and practical material to help achieve a basic understanding of this diverse industry.
- 389 Recreation and Sport Leadership.** (3) (Prereq: Recreation and Sport Management 242 and Theater 140) This course focuses on the study and practice of leadership styles and direct leadership techniques for conducting organized recreation and sport programs for all age groups.
- 390 Program Planning and Promotion for Recreation and Leisure.** (3) (Prereq: Recreation and Sport Management 337) This course focuses on the principles and approaches to planning and implementing recreation programs. A philosophical and practical basis for preparing a variety of recreation programs will be covered.
- 392 Field Experience in Recreation and Sport.** (3) (Prereq: Recreation and Sport Management .369 or 390) A supervised practicum in a professional setting; on-site observation in a public, private or commercial setting with experience in all working areas and activities pertinent to that agency.
- 396 Orientation to Internship.** (1) (Prereq: Recreation and Sport Management 337) Plan and prepare for internship in recreation and sport management. Analyze career placement opportunities, the internship process, and associate requirements. For recreation and sport management students only or permission of the instructor.
- 399 Independent Study.** (1-3) (Prereq: Recreation and Sport Management 242).
- 400 Sport in Contemporary Society.** (3) (Prereq: Psychology 101 or Sociology 101 or 102). An investigation into sport as a microcosm of society and how it is influenced by cultural traditions, social values, and psychosocial experiences. Emphasis is placed on how sport managers are immersed in the soci-cultural milieu, with sport as the focus. Course includes the examination of changing attitudes, behaviors, and trends in the world of sport.
- 432 Research and Evaluation in Recreation and Sport Management.** (3) (Prereq: Recreation and Sport Management 369 or 390). Systematic, structured problem-solving for decision making in recreation and sport management services. Research techniques/evaluation procedures; quantitative, qualitative methodologies; deductive, inductive reasoning. (Computer Usage).
- 438 Recreation for Active Aging.** (3) (Prereq: Psychology 101 or Sociology 101 or 102). This course introduces the students to recreation activities and tech-

(Recreation and Sport Management, Religion)

niques for working with senior adults. Topics include procedures for programming, implementation, and evaluation of recreation activities that serve senior adults.

- 456 Recreation Administration.** (3) (Prereq: Recreation and Sport Management 390) Administrative policies and organizational management of recreation services, financial and personnel practices, public relations. (Computer Usage).
- 482 Special Topics In Recreation and Sport.** (3) (Prereq: Recreation and Sport Management 389) Topics of special interest in contemporary recreation and sport management. Reading, research, and application of selected subject(s). Open only to junior and seniors. Offered on demand.
- 492 Campground Administration.** (3) (Prereq: Recreation and Sport Management 390) Basic concepts of campgrounds and management. Topics include administration and organizational structure, business management, insurance for special groups or special camps, day camping, residence camping, recreational vehicle camping, campground facility design and maintenance, special event planning, and camp appraisals. (Computer Usage).
- 494 Area and Facility Management in Recreation and Sport.** (3) (Prereq: Recreation and Sport Management 320 or 390) (Writing Intensive) Basic consideration in planning, construction, design and maintenance of sport and recreation areas, facilities and buildings.
- 496 Internship in Recreation and Sport Management.** (12) (Prereq: Senior standing and completion of all Recreation and Sport Management required courses; successful completion of internship application and Exit examination; to be taken the last semester prior to graduation.) (Writing Intensive) Twelve week full-time supervised experience in recreation or sport at a cooperative and approved agency.
- 499 Directed Undergraduate Research.** (1-6) (Prereq: Recreation and Sport Management 432). Using the scientific method, directed undergraduate research on a recreation or sport related topic to be developed by the student and instructor. (Computer Usage).

RELIGION (RELG)

- 103 World Religions.** (3) The religious experience of varied persons and groups, East and West, in traditional and contemporary settings.
- 302 New Testament.** (3) An historical and critical study of the origin, structure and transmission of the New Testament writings and their meaning in life and thought of the early Church; emphasis is placed on the life, teachings, and significance of Jesus and Paul—both for their day and for ours.
- 311 Gospel Traditions.** (3) An analysis of the historical and social setting of the Gospel designed to afford the student a fuller understanding of Jesus and his mission.

(Religion, Resort Tourism Management)

- 312 The Life and Letters of Paul.** (3) A critical study in the life and thought of Paul, his letters to the early Christian churches, his role in the expansion of the Christian movement, and his continuing influence today.
- 325 Religion in Contemporary American Film.** (3) A critical study of religious beliefs and practices as seen through the medium of film. Students will view contemporary American films and film clips through the lens of religious studies. Lectures and films are augmented by WebCT discussion boards.
- 360 Women and World Religions.** (3) (Prereq: Religion 103 or permission of instructor) An examination of the historical and social context of issues in religion or sanctioned by religion that are uniquely related to women.
- 399 Independent Study.** (3) For more information, see Academic Regulations section in this Catalog. May be repeated for credit under different topics.
- 399H Interdisciplinary Independent Study.** (3-9) Directed independent study at the honors level in two or more departments.
- 491 Selected Topics in Religious Studies.** (3) Course content varies and will be announced in the schedule of courses by suffix and title. May be repeated for credit under different topics.
- 498 Advanced Project.** (3) A supervised research project or other creative work, normally taken in the senior year.

RESORT TOURISM MANAGEMENT (RTMA)

- 180 Guest Services I.** (1) A six month internship experience in the production of core resort destination services, i.e. food, lodging, entertainment/recreation, transportation. This course includes biweekly instruction from faculty and management on topics related to service quality and production.
- 280 Guest Services II.** (1) A six month internship experience in high customer contact positions in a resort destination area, i.e. front desk, dining/banquet room, ticketing, recreation area. This course includes biweekly instruction from faculty and management on techniques for successful service delivery and guest problem solving.
- 282 Survey of Food & Beverage Management.** (3) (= Professional Golf Management 282) (Prereq: not recommended at the freshman level.) Provides students with an opportunity to learn concepts and skills related to food and beverage service operations. Class time will be used to present concepts and base knowledge, while lab time will be used to develop actual food preparation skills and food and beverage costing techniques. F, S.
- 380 Tourism Sales.** (1) (Prereq: Resort Tourism Management 180 and 280) A six month internship experience in resort tourism sales, i.e. conference and meeting

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sales, room sales, banquet sales, tour/travel sales. This course includes biweekly instruction from faculty and management on sales techniques.

- 381 International Internship.** (3) (Prereq: completion of 54 semester hours) Internship experience in a tourism-related field conducted in a country other than that in which the majority of the student's academic course work is completed. S.
- 385 Current Issues in Resort Tourism.** (3) This course provides future tourism industry leaders with an in-depth understanding of the critical issues currently affecting the tourism businesses operation in resort destinations. Students become familiar with trade literature in the tourism industry.
- 386 Applied Tourism Research.** (3) (Prereq: completion of 54 semester hours) Cases and projects in tourism management, marketing, and tourism destination planning. This course will include both classroom instruction and field research. F.
- 393 Management Information Systems.** (3) (=Business Administration 393) (Prereq: Grade of C or above in Computer Science 110 or equivalent and Business Administration 371)) A study of the use of information systems in business, emphasis is on the identification of practical, managerial, and ethical dilemmas related to the development, implementation, and use of information systems. F, S.
- 467 Real Estate Finance and Investments.** (3) (=Business Administration 467) (Prereq: Grade C or above in Business Administration 363) Principles and practices in real estate finance focusing on institutions, instruments, and determinants of terms and availability of credit, topic include interest and yield mechanics, cash flow analysis, risk analysis, and various loan strategies or packages.
- 474 Quality Process Management.** (3) (=Business Administration 474) (Prereq: A grade of C or above in Business Administration 371 and completion of 84 semester hours.) The systematic process through which managers regulate organizational activities to meet planned goals and standards of quality. Topics will include different types of quality control processes, total quality management, product and service quality techniques, and the uses of information technology for insuring quality. S.
- 480 Resort Management Training.** (1) (Prereq: Resort Tourism Management 180, 280, and 380) A six month internship experience in which the student will participate in compiling and analyzing management reports for a tourism service business. The course includes biweekly instruction from faculty and management in the areas of back-office accounting and supervision in a resort tourism service business.
- 490 Seminar in Resort Tourism Planning.** (3) (=Business Administration 490) (Prereq: Completion of 84 semester hours) This course examines public policy in tourism destinations. Special emphasis is placed on the interrelationships between tourist demand, tourism information systems, tourism goods and services, and tourism host communities. Students develop plans for a proposed tourism site.

(Science, Sociology)

SCIENCE (SCIE)

- 101 Introduction to Science.** (3) (Coreq: Science 101L) An introduction to the processes of science for non-science majors using the environment as a basic theme. The course, specifically designed to be the first university-level science course, draws on illustrations from all of the sciences on how to understand science and its integration into students' lives and careers. Three lecture hours per week. F, S.
- 101L Introduction to Science Laboratory.** (1) (Coreq: Science 101) Experiments, exercises, demonstrations and field experiences emphasizing the topics presented in Science 101. Three laboratory hours per week. F, S.

SOCIOLOGY (SOC)

NOTE: SOCIOLOGY 101 OR 102 IS Prereq TO ALL OTHER SOCIOLOGY COURSES.

- 101 Introductory Sociology.** (3) An introduction to sociological facts and analysis of group-making processes and products. F, S.
- 102 Social Problems.** (3) Analysis of social structures and processes relating to public issues in contemporary society. F, S.
- 298 Careers and Professional Development in Gerontology.** (1) This course introduces students to areas of specialization in gerontology and career opportunities within the discipline and related disciplines. This course explores the variety of resources available on the Internet and in the University Career Resources Services office in order to assist students to find jobs or enter graduate schools after graduation.
- 301 Sociology of Sex Roles.** (3) Theories, methods, and substantive issues in a sociological approach to sex roles. Topics usually include sex role expectations and socialization in contemporary societies, subcultural and social class variations and structural and institutional factors.
- 305 Sociology of the Family.** (3) Sociological perspectives related to various aspects of family behaviors, roles and values.
- 307 Sociology of Religion.** (3) Sociological perspectives related to various aspects of religious behavior. Includes references to non-Western religions.
- 308 Community Organization.** (3) An analysis of formal and informal organizations, the interrelationships among public and private agencies, and means through which community action programs are initiated, coordinated and maintained.
- 309 Social Inequality.** (3) The course provides a sociological overview of how social inequality occurs, is maintained and challenged, with a primary focus on

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the intersection of race/ethnicity, gender, and social class. Current and historical trends in inequalities are examined. The social causes of inequalities are analyzed as well as the consequences of inequality for individuals and states.

- 310 Social Demography.** (3) (Writing Intensive) (Prereq: Sociology 101, Mathematics 130 or equivalent or permission of instructor) Analysis of the theories, methods, issues and data related to the characteristics and dynamics of population. Offered on demand.
- 310L Social Demography Laboratory.** (1) (Coreq: Sociology 310) Exercises and assignments to supplement the material presented in Social Demography.
- 311 Sociology of Poverty.** (3) A sociological analysis of who the poor are with a specific emphasis on rural America.
- 313 Social Welfare and Social Work.** (3) (Prereq: Sociology 101) Analysis of the theory and process of social services. Emphasis is placed on understanding major social service programs in the United States, their histories, trends, and public policy related to them. Students study specific social welfare programs such as income maintenance programs, social security, nutrition programs and others. The occupation of social work is addressed along with major debates regarding providers and consumers of services.
- 320 Individual and Society.** (3) (=Psychology 430) (Prereq: Psychology 101) Selected theoretical orientations, methodological procedures and illustrative substantive data pertaining to the relations between the individual and society.
- 330 Sociological Theory.** (3) Theoretical perspectives on society and social behavior.
- 331 Methods in the Social Sciences.** (3) (Writing Intensive) Coreq: Sociology 331L) (Prereq: Sociology 101 or 102; Psychology 225 or its equivalent) Introduction to the methods and problems involved in designing and conducting research in sociology and related fields. S.
- 331L Methods in the Social Sciences Laboratory.** (1)(Coreq: Sociology 331) Exercises and assignments to supplement the material presented in Sociology 331.
- 350 Juvenile Delinquency.** (3) The causes and consequences of juvenile delinquency and the study of the juvenile justice system.
- 353 Sociology of Crime.** (3) Social factors in the development, identification, and treatment of criminals.
- 355 Minority Group Relations.** (3) (= Anthropology 355) Theories, methods, and substantive issues in the study of majority-minority group relations with an emphasis upon racial and ethnic differentiation.
- 360 Sociology of Medicine and Health.** (3) (Prereq: Sociology 101 or permission of instructor) The course acquaints students with a sociological analysis of

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health, illness, and the care system. Examples of topics covered include sociological variables in relationship to patterns of illness, models of illness behavior, analysis of the contemporary care system including reimbursement patterns, and socio-economic and political critiques of contemporary issues in medicine and health.

- 399 Independent Study.** (1-6) (Prereq: Written contract between student and instructor, approved by the Chair of the Psychology and Sociology Department)
- 400 Sociology of Small Groups.** (3) (Prereq: Nine hours of Sociology or permission of instructor) Conceptual, analytical, empirical and substantive issues in the sociological study of small groups. Topics include: theoretical models of small group structures, functions, and processes; methods of small group research; power, leadership, conflict, conformity and decision-making in small groups.
- 450 Victimology.** (3) (Prereq: Sociology 101 or consent of the instructor) Examination of sociological theories, research, and methodologies in the study of victims and analysis of the growth and institutionalization of victim advocacy.
- 454 Sociology of Death and Dying.** (3) This course focuses on the social construction of dying and death in our society as well as the ways societal expectations, values, and norms influence practices and beliefs about death.
- 455 Sociology of Aging.** (3) Analysis of aging as a problem of socialization and the status of older people in society, their roles in the community, demographic aspects of aging, and the impact of aging upon social institutions.
- 457 Aging and Social Policy.** (3) (Prereq: Sociology 101, Psychology 101, or permission of instructor) The development of public policy related to aging. Basic policy concepts, models, and methodology along with specific issues of the elderly.
- 460 Sociology of Mental Health.** (3) Social factors in the development, identification and treatment of mental illness.
- 465 Sociology of AIDS.** (3) (Prereq: Sociology 101 or 102, courses in statistics, research methods, computer usage--these courses may be waived by the instructor) A seminar for advanced undergraduates, this course involves student research on HIV/AIDS transmission, incidence, prevalence, and prevention worldwide and analyzes HIV/AIDS within the framework of social stratification, social movements, social deviance, social control, and international development.
- 480 Environmental Sociology.** (3) (Prereq: Sociology 101 or 102 and junior standing or permission of instructor) The course examines key issues in the relationship between society and the natural environment. The primary focus is on social structural and cultural factors behind environmental and resource problems. Attention, however, is also given to social consequences of environmental degradation (e.g., social and economic disruption) and to social responses to environmental and resource problems (e.g., change in culture/attitudes about environmental issues, the environmental movement, community mobilization against threats).
- 495 Gerontology Internship.** (3) (= Psychology 495) (Prereq: Psychology 423

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and three additional gerontology program courses). The internship provides experience working with both well and frail older persons and requires a minimum of 104 hours with an approved agency. The internship is supervised by the program director and an on-site professional with a specialized terminal degree and/or significant demonstrated experience. Contracts outlining practicum requirements must be written and approved by the host agency, the director of the gerontology program, and the chair of the Department of Psychology and Sociology.

- 497 Senior Thesis.** (3) (Prereq: senior standing, Sociology 330 and Sociology 331) Each student plans and executes an original research project under a sociologist's supervision.
- 498 Topics in Sociology.** (3) Reading and research on selected subjects in sociology. Open only to juniors and seniors with the permission of the instructor.
- 499 Internship.** (1-6) (Writing Intensive) (Prereq: The internship requires 90 or more hours of collegiate credit with a GPA of 2.5 or better; formal application with a resume, and a contract among the Internship agency, the student, and the department. The application process must be completed by the last day of classes of the semester prior to the internship . Interns work a minimum of 100 hours in a human services, governmental, research, or criminal justice agency and write a paper analyzing their work experiences.

SPANISH (SPAN)

- 110 Introductory Spanish I.** (3) Fundamentals of the language through aural comprehension, speaking, reading and writing.
- 111 Introductory Spanish I -II (Intensive).** (3) Fundamentals of the language through aural comprehension, speaking, reading, and writing, equivalent to Spanish 110-120. Intended for students with two years of high school Spanish with an average of B or better, or by placement.
- 120 Introductory Spanish II.** (3) (Prereq: Spanish 110 or by placement) A continuation of Spanish 110. Fundamentals of the language through aural comprehension, speaking, reading and writing.
- 130 Introductory Spanish III.** (3) (Prereq: Spanish 120, 111, or by placement) Further development of fundamental language skills (listening, speaking, reading, and writing), with additional consideration of culture.
- 210 Conversation/Composition I.** (3) (Prereq: Spanish 130 or by placement) Develops an intermediate proficiency in Spanish and an appreciation of Hispanic cultures through practice in the use of the basic language skills: speaking, reading, writing, and listening comprehension. Emphasis on the expansion and refinement of oral and written skills. Reading and discussion of a variety of literary and nonliterary texts of appropriate difficulty. Grammar review. Required for work in upper level language, literature, and culture courses.
- 211 Conversation/Composition II.** (3) (Prereq: Spanish 130 or placement)

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This course continues and complements the first semester intermediate level Spanish (Spanish 210; Conversation/Composition I). Further expansion of language skills and appreciation of Hispanic cultures. Additional emphasis on grammar review in preparation for work in upper-level courses.

- 320 Spanish for the Professions.** (3) (Prereq: Spanish 210) Study of the applied nature of the language focusing on the cultural aspects and specialized vocabulary of a given professional field. Emphasis on developing skills to ask and answer questions relating to a particular professional field, drafting relevant documents, and describing events that may arise in the practice of the profession. The following are among the possible professional fields on which the course will focus: a) Spanish for Business; b) Spanish for Health Professions; c) Spanish for Public Safety; d) Spanish for the Travel and Tourism Industry.
- 321 Conversations on Hispanic Current Events.** (3) (Prereq: Spanish 210) This course is designed to promote an active command of the language and an appreciation of the cultural diversity of the Spanish-speaking world. Topics that emerge from the media serve as a basis for conversations, class presentations, and essays.
- 322 Latin American Literature in Translation.** (3) (=English 322) (Prereq: For Spanish credit: Spanish 210) (Writing Intensive) Selected readings of Latin American Literature in translation. Students write primarily critical essays. All readings are in English.
- 323 Spanish for Business and Tourism.** (3) (Prereq: Spanish 210) This course provides students with linguistic skills necessary to discuss business concepts and the tourism industry in Spanish. Emphasis is placed on developing the four basic language skills (listening, speaking, reading, and writing) in the context of business situations. Special consideration is devoted to acquiring an appreciation and understanding of Hispanic culture in the business world.
- 326 Cuban Literature in Translation.** (=Latin Studies 326) (1-3) (Prereq: Spanish 130 and permission of instructor) (Coreq: Travel/study in Cuba) Selected readings in Cuban literature in translation. Students will read, research and write on Cuban literature, society and culture. A non-refundable deposit is required upon registration.
- 330 Approaches to Literature and Culture.** (3) (Prereq: Spanish 210) Introductory studies in the literature and cultural manifestations of the Hispanic world. Authors, genres, or cultural expressions may vary. Emphasis on the continued development of oral, reading, and writing skills. Even years.
- 333 Topics in Language, Literature, and Culture.** (3) (Prereq: Spanish 210) Selective study of topics in the language, literature, and culture of Latin America and Spain. Class format includes reading assignments, lectures, discussion, oral and written reports. Topics vary.
- 340 Hispanic Culture and Civilization.** (3) (Prereq: Spanish 210) A study of the historical development and various cultural manifestations of the Spanish, Latin American, and contemporary Hispanic civilization.

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- 350 Spanish Language Study Abroad.** (3-6) (Prereq: Approval of Foreign Language faculty) Language study abroad with instruction by native speakers. Credit hours granted dependent on the number of hours taken. Upon successful completion of an approved program students must furnish a certificate and/or examination results. Prior consultation with the Department of Foreign Languages is mandatory before enrollment.
- 351 Spanish Internship Program.** (3) (Prereq: Spanish 210) This internship course of study is intended to put the student in direct contact with the spoken language and provide practical experience of its various applications. Students may select from one of three options: a) an internship with a local business or public agency that works with Spanish-speaking clients; b) a work teaching practicum with selected high-school or university faculty; c) an internship in Spanish-speaking countries in industry, schools, or public institutions. The course of study of all options will be supervised by designated faculty.
- 360 Studies in Hispanic Poetry.** (3) (Prereq: Spanish 210) (Writing Intensive) Selected topics in Hispanic poetry. This course is designed to develop students' appreciation of poetry and to develop critical approaches to poetic texts. Periods covered may include the following: Renaissance and Baroque Poetry of Spain, Modern Spanish Poetry, and Poetry of Latin America from Modernism to the present.
- 380 Studies in World Film.** (3) (=English 380, Theater 380) This course is a survey of world film with an emphasis on Hispanic cinema. It provides a general introduction to contemporary film-critical discourses which are currently under the rubric of film semiotics. Key elements of the language of cinema are studied with the goal of developing both critical and creative skills. Taught in English.
- 399 Independent Study.** (3) (Prereq: A written contract between students and instructor for a special topic dealing with Spanish language or culture, and approved by the Dean of the College of Humanities and Fine Arts) May not be used to satisfy the Spanish Minor Core.
- 410 Spanish Peninsular Literature.** (3) (Prereq: Spanish 210 or equivalent) A survey of the major literary works of Spain from the Middle Ages through the twentieth century.
- 411 Spanish American Literature.** (3) (Prereq: Spanish 210 or equivalent) A survey of the major literary works of Spanish American from pre-Columbian times through the twentieth century.
- 430 Spanish Linguistics.** (3) (Prereq: Spanish 210 or equivalent) Study of modern Spanish with attention to the application of linguistic theory to the effective teaching of Spanish.
- 431 Advanced Language Study.** (3) (Prereq: Spanish 210 or equivalent) (Writing Intensive) Intensive practice of oral skills. Advanced study of grammar,

(Spanish, Statistics)

syntax, and composition. Emphasis on mastery of complex language structures. Oral and written examinations.

- 480 Capstone: Advanced Topics in Literature and Culture.** (3) (Prereq: Spanish 210 or equivalent; Junior standing or above) (Writing Intensive) Intensive study and analysis of a notable author or authors, literary trends or selected cultural topics. Emphasis may be placed on one or more of the various forms of artistic, cultural or linguistic expressions. Consolidate and further the skills developed in the Spanish major.
- 495 Internship.** (3) (Prereq: Special permission) This is a guided internship and requires 120 hours of outside work, a journal and a final evaluation paper.

STATISTICS (STAT)

- 201 Elementary Statistics.** (3) (Prereq: Mathematics 130 or 130I) (Coreq: Statistics 201L) An introductory course in the fundamentals of modern statistical methods. Topics include descriptive statistics, introduction to probability, random variables and sampling distribution, linear regression and correlation, testing of hypothesis concerning one and two population samples, confidence interval estimation of parameters and introduction to one way ANOVA (analysis of variance). Primarily for students in the field of science who need basic knowledge of statistics. Students may not receive credit for this course if credit has been received from any of the following courses: Business Administration 291, or Psychology 225. Three lecture hours per week. F, S, Su.
- 201L Elementary Statistics Computer Laboratory.** (1) (Coreq: Statistics 201) The computer laboratory involves exercises and/or lectures accompanying Statistics 201. Students will use various statistical software. Laboratory exercises are designed to analyze data using appropriate tests/methods introduced in Statistics 201. F, S, Su.
- 315 Regression Analysis.** (3) (Prereq: Statistics 201) Sampling methods in statistics. Study of correlation, linear, multiple and nonlinear regression techniques. Analysis of data and computer applications. S.
- 316 Experimental Design.** (3) (Prereq: Statistics 201) Analysis of variance methods, experimental design techniques and analysis of covariance.
- 317 Nonparametric Statistical Methods.** (3) (Prereq: Statistics 201) Analysis of data using non-parametric statistical methods. Smoothing techniques for density estimation. Offered on demand.
- 318 Biostatistics.** (3) (Prereq: Statistics 201/201L) Mathematically sophisticated presentation of principles and methods of data description; graphics, point and interval estimation, statistical testing, relative risk, odds, ratio, goodness of fits, ANOVA, design of experiments. Three lecture and three laboratory hours per week. F.
- 399 Independent Study/Internship in Statistics.** (3) (Prereq: Statistics

(Statistics, Success Seminar, Theater)

412) Directed study of specific topics or supervised work as part of an approved internship. F.

412 Statistical Inference I. (3) (Prereq: Mathematics 260) Sample spaces, probability, random variables, distributions. S.

413 Statistical Inference II. (3) (Prereq: Statistics 412) Point and interval estimation, tests of hypothesis, limiting distributions, order statistics. F.

419 Actuarial Mathematics I. (3) (Prereq: Statistics 412) Survival distributions and life tables, life insurance, annuities, benefit analysis risk theory. Offered on demand.

420 Statistical Computing. (3) (Prereq: Statistics 412) Random number generation, Monte-Carlo simulation techniques, statistical programming, introduction to statistical packages, computing on the internet. S, odd years.

SUCCESS SEMINAR FOR RESORT TOURISM MANAGEMENT MAJORS (SSRT)

195 Success Seminar for Resort Tourism Majors (3) (Prereq: Restricted for freshmen only enrolled in the Resort Tourism Management Program) Provides an introduction to the resort tourism industry. Students will study various careers in the tourism industry and will review an in depth case study of a successful hospitality firm. F.

THEATER (THEA)

101 Introduction to Theater Art. (3) Understanding and criticism of dramatic literature, history, and production.

130 Principles of Dramatic Analysis. (3) Applications of contemporary cultural/literary theories, critical evaluation, analysis, and interpretation of dramatic literature and performance. Emphasizes both traditional and non-traditional canons of dramatic literature and traditional structures and forms of drama.

140 Oral Communication. (3) (= Communication 140) The theory and practice of interpersonal, small group, and public oral communication, to include performance by students. F, S, Su.

150 Acting I. (3) (Prereq: Theater 130) Actor awareness, imaginative physical and vocal preparation, application of objectives-obstacles-action choices in theater exercises, a monologue, and scene work; terminology and types of theater spaces examined.

154 Introduction to Costuming. (3) Basic principles of costume design and construction and survey of selected historical periods in costume history.

155 Stagecraft. (3) A beginning course in the principles and practice of stagecraft.

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- 171 Stage Auditions.** (1) A beginning study of audition methods, including material selection, role preparation, and casting presentation.
- 174 Ballet I.** (2) Introduction to the techniques of classical ballet including alignment, positions, port de bras, and center combinations.
- 175 Jazz I.** (2) Introduction to the style, technique, and rhythmic structures of Jazz dance.
- 176 Tap I.** (2) Introduction to the fundamental principles of tap.
- 220 Theater Laboratory.** (1) Supervised participation in theater production. No formal class meetings. May be repeated for credit, but no more than four credits may be applied toward the departmental major. F, S.
- 221 Laboratory, Musical Theater Performance.** (1) Supervised performance in musical theater production or music ensemble.
- 230 Complete Stage Makeup.** (3) An introduction to the complexities of makeup, this course is specially designed to require the student to become familiar with basic makeup procedures and complex prosthetic makeup application, and will culminate in the student's application in his or her projects.
- 240 Voice and Diction.** (3) The analysis, evaluation, and improvement of speech through a study of the anatomy and physiology of the vocal mechanism, voice production, and articulation. Students will learn the International Phonetic Alphabet as a means of improving diction.
- 250 Acting II.** (3) (Prereq: Theater 150 with grade of C or higher.) Scene work in realistic, contemporary drama; developing the ensemble experience; improvisational work to develop the artistic impulse.
- 274 Ballet II.** (2) (Prereq: Theater 174). Intermediate/advanced level training in ballet.
- 277 Tap Dance II.** (2) (Prereq: Theater 176) Continued training in Tap dance at the intermediate/advanced level.
- 276 Jazz II.** (2) (Prereq: Theater 175) Continued training in Jazz dance at the intermediate/advanced level.
- 280 The Film Experience.** (3) Introduction to the techniques and theory of feature, documentary, and experimental films. Screenings, discussions, and critiques.
- 288 Directing I: The Director's Vision.** (3) (Prereq: Theater 130 with grade of C or higher) History, theory, and principles of directing. Examines director's role and responsibilities, play selection, conceptualizing, ground plans, blocking.
- 295 Musical Theater Scene Study.** (3) The study of performance and acting in the musical theater. Several performance projects are required, all of which

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entail singing/acting and movement.

- 322 Creative Dramatics.** (3) The study and practice of theater games and exercises as a means of learning to lead groups of all types and ages in an ensemble activity, including keeping a record of target group activities.
- 329 Stage Management.** (3) (Prereq: Theater 155, Permission of Instructor) Learn the basics of the art and science of stage management for live theater. Topics will include script analysis, the audition process, the rehearsal process and strike. Differing styles of stage management as well as different theatrical genres will be presented, discussed, and analyzed.
- 331 Introduction to Playwriting.** (3) (Prereq: English 275, 276, 287, or 288) Basic skills of playwriting including exercises in monologues, scenes, and conflict and resolution, leading to completion of a one-act play.
- 334 Small Group Communications.** (3) (= Communication 334) (Prereq: Theater 140/Communication 140) The study and practice of small group communications through creative approaches to problem solving.
- 340 Oral Interpretation of Literature.** (3) A course designed to give an understanding of the principles involved in extracting meaning from the printed page and the oral presentation of that meaning in a lucid and stimulating manner.
- 341 Advanced Public Speaking.** (3) (= Communication 341) (Prereq: Theater 140/Communication 140) Analysis and advanced applications of public discourse and discursive strategies with emphasis on speech structure and delivery methods.
- 350 Acting III.** (3) (Prereq: Theater 250 with a grade of C or higher) Continuation of scene work, adding nonrealistic forms; introduction to alternative approaches to the acting process; developing the physical and vocal character; examination of technique in acting.
- 351 Costume Construction.** (3) Uses of materials and techniques for stage costume including patterning, advanced constructions, crafts, and millinery. Fee.
- 352 Costume Design.** (3) Methods and principles of costume design with projects in both modern and period styles. Includes research methods, design conceptualizations, organization, communicating ideas through images, and play analysis for the costume designer.
- 353 Theater Design I.** (3) (Prereq: Theater 155 or equivalent) Basic scenographic studies of set design, lighting and costumes including preparation of ground plan, perspective drawing, and model building.
- 355 Scene Design.** (3) A studio course looking at design theory, history and contemporary design styles. Several projects will help to develop the drawing, drafting, rendering and model making skills of the student necessary to visually communicate design concepts to a director and other members of the production team.

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- 356 Lighting Design.** (3) Principles and theory of theatrical lighting design, including design process and execution, equipment and paperwork. script analysis and color theory.
- 357 Scene Painting.** (3) Studio projects designed to develop and practice basic skills needed in painting stage scenery. Fee.
- 358 Properties Design and Construction.** (3) Uses of materials and techniques for the beginning properties designer and builder, including sections on carpentry, plastics, soft goods and upholstery.
- 359 Special Topics in Technical Theater.** (3) Rotating topics in technical theater such as millinery, CAD drafting, computer-aided rendering, advanced patterning, etc.
- 361 Theater History and Literature I.** (3) Traces major developments in theater production and dramatic literature from their beginnings to the mid-17th century. Lecture, student presentation.
- 362 Theater History and Literature II.** Traces major developments in theater production and dramatic literature from the mid-17th century to the 20th century.
- 363 Musical Theater History.** (3)(Coreq: Theater 150) A survey of the playwrights, composers, directors, choreographers, performers, and productions of the American musical theater from its European beginnings to the present; specific works are studied.
- 366 History of Dance.** (3) (Prereq: Junior Standing) A survey of dance from the beginnings to the present. Lecture, final presentation.
- 372 Movement for the Actor.** (3) (Prereq: Theater 150) An introduction to current ideas in movement theory and basic physical skills needed for acting. Topics include Laban, Alexander technique, yoga, physical approaches to character, and basic unarmed stage combat.
- 376 Dance for Musical Theater IV (Styles).** (3) (Prereq: Theater 174, 175, and 176 or consent of instructor) The study and application of the choreographic styles of several leading Musical Theater choreographers as well as student practice in choreography for the Musical Theater. Course may be repeated as an Elective or Emphasis.
- 377 Dance Company.** (Variable 1-3) (Prereq: THEA 174, 175 or 176) Practical studio work in dance technique and choreography with rehearsal in preparation for performance opportunities.
- 380 Studies in World Film.** (3) (= English 380, Spanish 380) This course is a survey of world film with an emphasis on Hispanic cinema. It provides a general introduction to contemporary film-critical discourses which are currently under the rubric of film semiotics. Key elements of the language of cinema are studied with

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the goal of developing both critical and creative skills.

- 381 Modern British and American Drama.** (3) (=English 381) A critical and historical survey of the development of British and American drama from the eighteenth century to the present.
- 388 Directing II: Directing the Actor.** (3) (Prereq: Theater 288 with grade of C or higher) Director's approach to text analysis and articulation of ideas. Rehearsal schedules, staging, rehearsal and audition techniques, scene work. Students will focus on the direction of the Ten Minute play for and collaboration leading to new works. Final project will be a re-envisioned short scene from Shakespeare.
- 391 British Theater.** (3) Students attend a normal class schedule before Spring Break which includes lectures and presentations on the historical and current theater scene in England. The class will travel to England to see plays during Spring Break.
- 392 New York Theater Experience.** (3) A critical and historical survey of New York Theater, from the earliest record to the present, culminating in a trip to New York City during Spring Break to see plays and sites of related interest. Modern and contemporary New York Theater will be emphasized.
- 395 International Theater Experience.** (3) (Prereq: Junior Standing) A critical and historical survey of world theater, culminating in a trip to a major world city. Focus will be on culture, performance and society. May be repeated once for credit if destination changes.
- 399 Independent Study and Research.** (3) For information, see Academic Regulations section. May be repeated for credit under different topics.
- 429 Theater Management.** (3) (Prereq: Permission of instructor) Problems involved in organizing, administering, and promoting the non-professional theater.
- 440 Vocal Production for the Actor.** (3) (Prereq: Theater 240) The study and application of skills which develop a strong and versatile speaking voice for the stage. Drawing on the theories of Lessac, Linklater, Skinner, and Berry, students will identify and correct vocal problems through breathing and projection exercises and warm-up techniques. Study includes accents, dialects, and vocal drills. Knowledge of the International Phonetic Alphabet is required.
- 450 Acting IV.** (3) (Prereq: Theater 350 with a grade of C or higher) Rehearsal and performance of verse drama; a study of period styles; scansion, understanding of poetic language, and careful text analysis emphasized.
- 451 Design Survey.** (3) Students will research various trends in the history and contemporary practice of theatrical design as well as critiquing a current professional production. Fee.
- 452 Projects in Design.** (2) Supervised design in one area for a main stage production. May be repeated for credit.

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- 458 Theater Design II.** (3) (Prereq: Theater 155 or permission of instructor; Theater 353) Advanced scenographic studies of set design, lighting, and costumes including design participation in a departmental production.
- 491 Special Topics: New Works Development.** (3) Topics in the areas of theater that result in the creation of a new work in dramatic literature, performance, or design. Special Topics courses will be announced and described prior to early registration each semester.
- 498 Musical Theater Capstone.** (1) (Prereq: senior standing) In the final semester, each student will plan and execute a project which demonstrates significant proficiency in singing, dancing, and acting. Supervised by a member of the Performing Arts Faculty, the project will incorporate research, documentation, an audition portfolio, and a public performance.
- 499 Theater Capstone Project.** (1) (Prereq: senior standing) Each student will plan and execute a project which demonstrates a significant proficiency in one or more theatrical elements. Supervised by a member of the theater faculty, the project will incorporate research, documentation, and a public exhibition.

UNIVERSITY (UNIV)

- 100 Seminar in Leadership Development.** (2) Leadership and organizational theories, leadership styles, decision-making techniques, service learning, team building and communication skills with an opportunity to apply learning during class discussions and activities.
- 110 First Year Experience.** (3) Designed to enhance the satisfaction and success of first year students. The course focuses on developing critical and creative thinking, information literacy skills, improving written and oral communication skills, setting personal and academic goals, developing structured and consistent study habits, practicing effective time management, and becoming contributing members of the Coastal community. This course is a graduation requirement.
- 150 Career Exploration.** (3) This course is designed to provide the student with the skills necessary to make effective career decisions. A realistic assessment of self, identification of possible career fields and occupations, and methods of developing and implementing a plan of action will be emphasized.
- 200 Student Media Production.** (1) Supervised participation in the production of student media, including the student newspaper, magazine, or literary journal. This course may be repeated for credit, but no more than 8 total credits from University 200 may be applied toward a degree.
- 300 Principles of Peer Mentoring.** (1) (Prereq: Acceptance into Peer Mentor Program and permission of instructor). This interactive course focuses on the study of issues, topics, and strategies related to mentoring first-year students at the University. Relevant student development theory is highlighted. This course

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prepares Peer Mentors to co-teach a section of a success seminar in a subsequent Fall Semester. S.

301 Applied Principles of Peer Mentoring. (2) (Prereq: Completion of University 300 and permission of instructor). This course is designed to offer academic credit to Peer Mentors who spend eight to ten hours each week co-teaching a section of a success seminar with a faculty member, planning course content, meeting with first-year students and other course-related responsibilities determined by the Faculty Mentor or Peer Mentor Coordinator. This course specifically addresses topics and issues directly related to teaching and mentoring first year students in the success seminars. F.

399 Independent Study. (1-6) (Prereq: Admission into the Interdisciplinary Studies Program or permission of the Director of Academic Advising.) Written contract between student and instructor and approval by the appropriate dean or director.) Directed study and/or research on a specific topic.

498 Interdisciplinary Studies Senior Seminar. (3) (Prereq: Admission into the Interdisciplinary Studies Program and permission of the Director of that program.) Capstone course required of all Interdisciplinary Studies students for graduation. Students plan and complete an original research project under the guidance and supervision of the instructor. The topic selected must be related to the student's Interdisciplinary Studies area of emphasis. Seminar sessions focus on the principles, procedures, and problems of executing a senior-level research project. Students present project results in both written and oral form.

WOMEN'S AND GENDER STUDIES (WGST)

103 Introduction to Women's and Gender Studies. (3) An exploration of such issues as work, love, child-rearing, and other bio-cultural markers of women's lives through voices of individuals from a variety of cultures.

495 Women's and Gender Studies Internship. (3) The guided internship requires 120 to 140 hours of on-site work; a journal; and a final paper. The purpose of the course is to provide students with practical application opportunities for their knowledge and skills, to introduce them to local and regional employers in their field of study, and to enhance networking opportunities.

498 Capstone Seminar. (3) (Prereq: nine hours of minor-designated courses, including Women's Studies 103) A capstone course for the Women's Studies minor, which will present issues of gender, culture, and society as viewed through the framework of feminist theory.