COURSE OF INSTRUCTION

Undergraduate Programs
Course of Instruction

Accounting

ACCOUNTING 101
Principles of Accounting I
An introduction to the basic principles of Accounting, and how to account for business transactions. Emphasis on the understanding of how financial statements are prepared, and how they are used as a basis for decision making by business owners, investors, creditors, government and others interested in the financial condition of an economic entity and the results of its operations. Topics include Analyzing Transactions; the Matching Concept and the Adjusting Process; Completing the Accounting Cycle; Accounting for Merchandising Businesses; Accounting Systems, Internal Controls, and Cash; and Receivables. 3 semester hours Offered: Spring/Fall Only

ACCOUNTING 102
Principles of Accounting II
A continuation of Accounting 101. Topics include Inventories; Fixed Assets and Intangible Assets; Current Liabilities; Corporations: Organization, Capital Stock Transactions, and Dividends; Income Taxes; Unusual Income Items, and Investments in Stocks; Bonds Payable and Investments in Bonds; Statement of Cash Flows; and Financial Statement Analysis. Prerequisite: Accounting 101. Minimum grade C.

3 Semester hours
Offered: Spring Only

ACCOUNTING 103
Managerial/Cost Accounting
Introduction to Managerial and Cost Accounting used by management in conducting daily operations, planning future operations, and developing overall business strategies. Topics include Process Cost Systems, Cost Behavior and Cost-Volume-Profit Analysis, Profit Reporting for Management Analysis, Budgeting, Performance Evaluation Using Variances from Standard Costs, and Cost Allocation and Activity-Based Costing. Prerequisite: Accounting 101 and 102; Minimum grade C.

3 semester hours
Offered: Spring/Fall Only

ACCOUNTING 210
Financial Accounting Systems
Accounting systems for internal control, cash management, accounts receivables, inventories, plant assets, payroll, taxes, and other liabilities. Study of manual and computerized systems. Prerequisite: Accounting 101.

3 semester hours
Offered: Fall only

ACCOUNTING 300
Intermediate Accounting I

3 semester hours
Offered: Fall only

ACCOUNTING 301
Intermediate Accounting II

3 semester hours
Offered: Spring only

ACCOUNTING 302
Advanced Accounting
Coverage of selected advanced topics including accounting for investments, accounting for mergers and acquisitions, consolidation and currency translation, segment reporting, and accounting for government and not-for-profit organizations. Prerequisite: Accounting 301.

3 semester hours
Offered: Spring only

ACCOUNTING 311
Taxation of Individuals
Study of accounting and income tax law as it applies to individual and business entities. Concepts of gross income, allowable deductions and credits, determination of tax liabilities. Prerequisite: Accounting 101, Accounting 102.

3 semester hours
Offered: Fall Only

ACCOUNTING 312
Taxation of Entities
This course concentrates on federal income taxation of Corporations, Partnerships, Subchapter S Corporations, and Gifts and Estates. It introduces students to the income tax rules and regulations pertaining to these “taxable entities”, while enhancing an awareness of the complexities and sources of tax law. Prerequisite: Accounting 101, Accounting 311.

3 semester hours
Offered: Spring only

ACCOUNTING 327
Multinational Accounting
A global perspective on accounting practices. Development and role of accounting in select countries, comparative practices in financial reporting and disclosure, setting international accounting standards, and examinations of auditing and taxation issues. Prerequisite: Accounting 101.

3 semester hours
Offered: Fall only

ACCOUNTING 335
Auditing
Study of generally accepted auditing standards, practice and procedures in the audit of financial statements. Includes study of ethical issues and professional responsibilities of the Certified Public Accountant to investors, creditors and others who rely on the auditor’s opinion when using audited financial statements to make decisions. Prerequisite: Accounting 308.

3 semester hours
Offered: Spring only

ACCOUNTING 335
Auditing
Study of generally accepted auditing standards, practice and procedures in the audit of financial statements. Includes study of ethical issues and professional responsibilities of the Certified Public Accountant to investors, creditors and others who rely on the auditor’s opinion when using audited financial statements to make decisions. Prerequisite: Accounting 101.

3 semester hours
Offered: Spring only
Arabic

ARABIC 101
Elementary Arabic I
In this course students are introduced to the Arabic language and culture. Basic skills in speaking, listening, reading, and writing are developed. Cultural readings and videos are included in each lesson giving the students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. This is a course for students with little or no knowledge of Arabic language.
3 semester hours

ARABIC 102
Elementary Arabic II
This course builds on the foundations laid in Arabic 101 and continues to introduce students to Arabic language and culture. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course students are expected to reach a beginner level of Arabic language proficiency and should be able to understand/identify familiar vocabulary and conversation topics; engage in a conversation in a target language on a familiar topic; express opinions/feelings about a familiar topic; read and comprehend short simple texts; write short simple sentences. Prerequisite: Arabic 101.
3 semester hours

ARABIC 103
Intermediate Arabic I
This course builds on the foundations laid in Arabic 101 and Arabic 102 and provides an opportunity to improve Arabic language proficiency beyond the beginner level. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Arabic language proficiency and should be able to understand/identify a range of vocabulary items and topics; engage in a conversation in a target language on a range of topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: Arabic 103.
3 semester hours

Art & Design

The Art & Design Department reserves the right to retain selected samples of student work. A minimum of four hours of outside assignments per week is required in Studio Courses.

STUDIO FEES
Most studio courses have a fixed standard materials fee per course. Studio fees listed are subject to change. Consult course schedules for current rates.

ART & DESIGN C101
Art Appreciation
Introduction to theories of value in the arts. Principles of aesthetics as historically applied to plastic and performing arts. Theories of Beauty and their critique in Western and non-Western contexts. Pre-modern, modern and post-modern approaches to the analysis of the arts and architecture. This course may include a studio or performing component. A Core Heritage Course. Prerequisite: ENGL C101 or department permission.
3 semester hours

ART & DESIGN 103
2D Design
Problems in two-dimensional design and the interaction of color: the exploration of the elements of art and their interrelationships; visual and psychological factors involved in two-dimensional design and visualization. Introduces art and design presentation techniques including the portfolio. Emphasizes topics not covered in ADSN 103.
3 semester hours

ART & DESIGN 104
Visual Organization II
Problems in two-dimensional design and the interaction of color: the exploration of the elements of art and their interrelationships; visual and psychological factors involved in two-dimensional design and visualization. Introduces art and design presentation techniques including the portfolio. Emphasizes topics not covered in ADSN 103.
3 semester hours

ART & DESIGN 106
Drawing II
Fundamentals of drawing. Visualizing in two and three dimensions. An introduction to various media techniques and orthographic delineation methods including perspective drawing systems. Use of objects and figures in developing rapid visualization skills. Emphasizes topics not covered in ADSN 105.
3 semester hours

ART & DESIGN 110
Drafting
Introduces basic orthographic drafting techniques and technologies. Presentation and layout techniques used to enhance objects and environments. Introduces the representation of spatial designs including plans, views, elevations/sections, isometrics, axonometrics, perspectives, dimensioning and detail drawing. Provides basic introduction to computer-aided drafting.
3 semester hours

ART & DESIGN 117
Survey of Art History I
The development of visual art from prehistoric civilizations through the Medieval period. Multicultural developments and the changing role of the artist in society will be emphasized.
3 semester hours
ART & DESIGN 118
Survey of Art History II
The development of visual art from the Renaissance through the 20th Century, focusing on the modern role of art and artists in a global context.
3 semester hours

ART & DESIGN 119A, 119B
Introduction to Computer Applications
A survey of the primary image processing, layout, vector graphic and digital presentation software. Color correction, scanning and document set up for desktop publishing output is also covered.
ART & DESIGN 200
Co-op Work Experience
Through the co-op program, the student will be placed in full-time and part-time working positions in art, illustration, graphic design, industrial design and interior design. Prerequisite: 30 semester hours; by arrangement. 1-6 semester hours

GRAPHIC DESIGN 203
Typography I
The history, design and execution of letter forms in both analog and digital form are covered. Projects include the development of letter forms from pen and brush to digital font design. The emphasis is on the arrangement of type in design layout and the use of letter forms in an electronic presentation environment. Prerequisite: ADSN 219. 3 semester hours

GRAPHIC DESIGN 204
Calligraphy
This course addresses the origin of the roman alphabet(s), the development of historical letter style categories, manual methods of producing distinctive and beautiful letters and text, various parameters of legibility and readability, methods of utilizing calligraphic and lettering forms in both traditional and innovative ways. 2 semester hours

ART & DESIGN 205
Drawing III
Advanced drawing techniques utilizing a variety of media and subjects. Investigates structure, materials and scale by illustrating and rendering figures, objects and environments. Emphasizes topics not covered in Art & Design 206 such as advanced orthographic drawing techniques. Prerequisite: ADSN 105 and ADSN 106. 3 semester hours

ART & DESIGN 206
Interiors Drawing IV
Advanced drawing techniques utilizing a variety of media and subjects. Investigates structure, materials and scale by illustrating and rendering figures, objects and environments. Emphasizes topics not covered in Art & Design 205 such as production and assembly drawings. Prerequisite: ADSN 105 and ADSN 106. 3 semester hours

ART & DESIGN 207
Illustration I
A basic hands on course for developing a strong technical rendering foundation. An emphasis is placed on creative problem solving and simultaneous technical development. Editorial illustration for books, magazines, and advertising, etc. is the purpose of the course. Prerequisite: ADSN 103, ADSN 104, ADSN 105 and ADSN 106. 3 semester hours

ART & DESIGN 208
Illustration II
Continuation and second level of Art & Design 207. Illustration I. An emphasis is placed on creative problem solving and simultaneous technical development. Editorial illustration for books, magazines, and advertising, etc. for an electronic prepress environment is accompanied with learning advanced paint, photo-manipulation and logo software. Prerequisite: ADSN 207 and ADSN 219. 3 semester hours

ART & DESIGN 209
Painting I
The principles of painting, through a series of visual problems, working from nature. The understanding of pictorial space through control of drawing, value and color. Emphasizes topics not covered in Art & Design 210. 3 semester hours

ART & DESIGN 210
Painting II
The principles of physical and digital painting through a series of problems uniquely structured for the combination of analog and digital media. The understanding of representation and appropriate presentation methods relative to analog and digital media is the emphasis of the course. Prerequisite ADSN 209 and ADSN 219. 3 semester hours

GRAPHIC DESIGN 212
Introduction to Visual Semiotics
Semiotics (from the Greek semeion ‘sign’). In semiotics, ‘signs’ and symbols may be words, images or anything from which meanings may be generated and used to communicate. The course is an introduction to the analysis, appreciation and reading of broad range of signs and symbols to empower the communication practitioner to expand their visual vocabulary. Myth, Metaphor, Religious Iconography, Advertising and more, will be investigated to establish a communication value. With this added knowledge the students can be a more sophisticated globally aware communicator in their field of practice. The course consists primarily of video and slide screenings, followed by written analysis, reading and discussion. Prerequisite: ADSN 219 and ADSN 249. 3 semester hours

ART & DESIGN 220
Ceramics I
A basic approach to functional and sculptural clay modeling and firing techniques. The course exposes students to a variety of techniques used by different cultures from around the globe, both past and present. The course is to develop an appreciation for 3-Dimensional form. 3 semester hours

ART & DESIGN 221
Sculpture I
Techniques of three dimensional design applied to a variety of materials and used for expressive purposes. Includes figure sculpting and armature construction. 3 semester hours

ART & DESIGN 230
Video I
History, theory, and practice of analog and digital capturing and editing. Use of cameras and software for digitizing and editing. An emphasis on a narrative film style (story telling) is utilized to prepare students for later work in Web and Multimedia design. Prerequisite: ADSN 219. 3 semester hours

ART & DESIGN 231
Photography I
This is a non-darkroom course for using professional studio equipment in and out of the studio to fulfill assignments in advertising, industrial, commercial and portrait photography by combining creativity and technical knowledge. The fundamentals of picture tak-
ing, camera types, and history will be covered. Emphasis is on studio lighting with a final concern for documenting 2D and 3D work in a portfolio format.

3 semester hours

GRAPHIC DESIGN 256

Studio I
Print Design I – Fundamentals of page composition. Students will demonstrate an understanding of basic typographic and page composition principles through a variety of traditional and digital mediums. Prerequisites: ADSN 103 and ADSN 119.

3 semester hours

GRAPHIC DESIGN 256

Studio II
Print Design II – Intermediate print design. This course explores the combination of type and image on the printed page. The course focuses on using grids, along with the basic principles of typography as methods for organizing content in print. Prerequisites: GDSN 255 (DS I).

3 semester hours

GRAPHIC DESIGN 304

Business Practices & Ethics
Lecture course on business practices and professional ethics as applied to the Interior Design profession. Survey of business types, marketing and selling of services and products, and fee structures will be discussed. Current trends in safety, codes and licensing issues will be explored. Examination and preparation of business forms including contractual agreements, budget estimates, purchase orders and invoices will be covered in depth and applied to the thesis project. Prerequisite: ITDSN 356

3 semester hours

GRAPHIC DESIGN 305

Studio III
Print Design III – Advance printing design: Students will create campaigns in a series of projects to cover all aspects of identity design, from business stationary to promotional brochures, packaging design and environmental signage. Techniques for reinforcing a corporate identity will be covered. Prerequisites: GDSN 256 (DS II).

3 semester hours

GRAPHIC DESIGN 306

Studio IV
Web Design: Producing and displaying design content for the Web branch of the Internet and adapting that content to the requirements and restrictions of that medium. Students will develop skills in using mark-up languages to make functional and accessible documents for the World Wide Web, develop skills in structuring, linking, and maintaining multiple documents within a web site, and develop skills in incorporating visual elements to enhance information. Prerequisites: GDSN 305 (DS III).

3 semester hours

ART & DESIGN 309

Painting III
Investigation of a variety of media and techniques. Problems emphasizing composition formulation. Emphasizes topics not covered in ADSN 310. Prerequisite: 30 units of Art & Design courses or equivalent and ADSN 209, ADSN 210.

3 semester hours

ART & DESIGN 317

Photography II — Digital & Non Silver, Alternative Photography
This is a studio course for the photographer that is more concerned with the esthetic, process, materials and digital technology to support content. Various methods of photographic representation will be explored, both digital and non-silver for the purpose of presentation and exhibition. Methods will vary from polaroid transfer, cyanotype, gum bichromate and digital prints. Prerequisite: ADSN 231 and ADSN 219.

3 semester hours

ART & DESIGN 319

Printmaking I
Introduction to printmaking studio practices including intaglio, lithography, relief, paper making, etc. The course exposes students to a variety of techniques used by different cultures from around the globe, both past and present.

3 semester hours

GRAPHIC DESIGN 355

Portfolio Preparation
Students will prepare their portfolios for both print and web formats. Reworking of previous design to improve for portfolio presentation. Developing new pieces to enhance and broaden the current body of work. Prerequisite: GDSN 306 (DS IV)

3 semester hours

GRAPHIC DESIGN 356

Thesis/Portfolio II
This is an individual statement. The applied knowledge of five semesters of study will support future investigation. The body of work and research should reflect a concentration of study in a chosen area of practice as stated in the thesis proposal, e.g., design, advertising, publishing (www), etc. The student will work with an advisor in the chosen field and thesis teacher for 2 semesters. The focus of the class is to assist the student in developing a critical appreciation of their work through concentrated input from faculty, students and guest critics. The course requires a body of work accompanied by a written statement and slide documentation, as well as a complete portfolio.

3 semester hours

ART & DESIGN 357

Illustration III
Advanced illustration problems and techniques for magazines, advertising, fashion, children’s books, newspapers and preparation of a professional portfolio. Media used by illustrators including specialized painting and drawing techniques will be studied with emphasis on the importance of style in contemporary illustration. Various markets will be studied to identify appropriate potential markets for student illustrations. Work with editors and art directors. Deadline development and portfolio preparation for each market type. Emphasizes topics not covered in ADSN 358. Prerequisite: ADSN 207, ADSN 208.

3 semester hours

ART & DESIGN 376

History of Modern Art
Global art of the 20th Century with the inclusion of electronic and computer art. Prerequisite: Art & Design 117 and 118.

3 semester hours

ART & DESIGN 377

History of Modern Design
Survey of major design movements of the 19th & 20th Centuries. Studies in the national and international relationship of art and design in such groups as De Stijl and the Bauhaus.

3 semester hours

ART & DESIGN 378

History of Photography
A survey of photographic history from its earliest beginning to the present day. Major photographers, styles, and trends in a social context are covered. The course will also include political, social, and scientific influences on photography, and the role of photography in everyday life. Through slide lectures and class work, students will learn to look at, talk, and write about photographs. Prerequisite: ADSN 117 and ADSN 118.

3 semester hours
**Art & Design**

**ART & DESIGN 379**  
**History of the Graphic Arts**  
Survey of the history of illustration and graphic design, with emphasis on their global application in communications media.  
3 semester hours

**ART & DESIGN 380**  
**History of Modern Architecture & Urbanism**  
Survey of the major movements in architecture and urban planning from the 19th Century to the present. Considers the problems of vernacular architecture, urban design, historicism, functionalism, post-modernism.  
3 semester hours

**ART & DESIGN 398**  
**Internship**  
Professional, supervised, unpaid work in an organization related to career goals. Prerequisite: Permission of advisor and School Director.  
3 semester hours

**ART & DESIGN 399**  
**Independent Study/Special Projects**  
For the student who desired to specialize in advance projects not covered by the regular course offerings. Individual or group conferences with designated faculty advisor. Prerequisite: 12 semester hours of art history or permission of the instructor.  
3 semester hours

**ART & DESIGN 408**  
**Selected Topics in Modern Art & Design History**  
Seminar examining specific topics in the global history of modern art and design such as Dada, Abstract Expressionism, furniture design, performance art, computer and media arts. Prerequisite: 12 semester hours of art history or permission of the instructor.  
1-6 semester hours

**ART & DESIGN 425**  
**Advanced Topics I**  
Advanced undergraduate or graduate level topics with directed or independent study formats. Prerequisite: division approval; advanced standing; 30 semester hours of Art & Design courses or equivalent.  
By arrangement; 2-10 semester hours

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**Industrial Design**

**INDUSTRIAL DESIGN 107 (IDDSN 107/ITDSN 107)**  
**Product Lab Orientations**  
This non credit course is required prior to student use of the lab equipment. It is an introduction to the proper operation of equipment and an understanding of the lab rules. Students will gain a respect for the equipment and an understanding and proper equipment practice. Eye protection and other safety protection will be worn at all times while in the lab.  
0 semester hours

**INDUSTRIAL DESIGN 200**  
**Co-op Work Experience**  
Through the Co-op program, the student will be placed in full-time and part-time working positions in art, illustration, graphic design, industrial design and interior design. Prerequisite: 30 semester hours; by arrangement.  
1-6 semester hours

**INDUSTRIAL DESIGN 215**  
**Materials and Manufacturing I**  
Introduction to ferrous and nonferrous metals and their manufacturing methods, including liquid state, plastic state, and solid state forming; chip and non-chip cutting; welding, chemical and mechanical joining; and the finishing process available. Students will develop an individual or group project and complete a semester research/report.  
3 semester hours

**INDUSTRIAL DESIGN 216**  
**Materials and Manufacturing II**  
Introduction to thermoset and thermoplastic polymers and elastomers, rubber and other natural engineering materials and their manufacturing methods, including liquid state, plastic state, and solid state forming, chip and non-chip cutting, welding, chemical and mechanical joining, and the finishing processes available. Students will develop an individual or group project and complete a semester research/report.  
3 semester hours

**INDUSTRIAL DESIGN 217 (IDDSN 217/ITDSN 217)**  
**Computer Aided Drafting**  
In this course students will learn the basics of computer aided drafting. Students will be expected to complete a tutorial and several assigned projects. A semester report including all projects will be completed.  
Three 1 semester hour modules

**INDUSTRIAL DESIGN 218A (IDDSN 218A/ITDSN 218A)**  
**Beginning CADD**  
This course is an introduction to computer aided 3D Modeling. Subjects covered will include Introduction and Interface, drawing 2D shapes, mixing straight lines and arcs, numerical input, generating, viewing and rendering objects, moving rotating, sizing and mirroring objects, and drawing derivative objects. Elementary projects may be assigned, and a semester report may be generated.  
2 semester hours

**INDUSTRIAL DESIGN 218B**  
**Intermediate CADD**  
This is an intermediate class in computer aided 3D modeling. Subjects covered will include terrain models, curved lines and meshes, deformations, boolean, trim and stitch operations, and attaching extending and attaching objects. Intermediate projects will be assigned, and a semester report will be generated.  
2 semester hours

**INDUSTRIAL DESIGN 218C**  
**Advanced CADD**  
This is an advanced class in computer aided 3D modeling. Subjects covered will include reference planes and their palettes; drafting tools, advanced rendering, export features and animation models. Advanced projects will be assigned and a semester report will be generated.  
2 semester hours

**INDUSTRIAL DESIGN 255**  
**Industrial Design Studio I**  
A studio course where elementary product design projects are assigned. Projects will begin with advanced foundation studies, along with simple hand held products, and advance through simple mechanically activated products. Emphasis will be placed on aesthetic development, user requirements, and design for manufacturability. A beginning professional portfolio will be initiated. Prerequisite: Foundation courses and Drafting.  
3 semester hours

**INDUSTRIAL DESIGN 256**  
**Industrial Design Studio II**  
Continuation of IDDSN 256  
3 semester hours

**INDUSTRIAL DESIGN 305**  
**Industrial Design Studio III**  
A studio course where complex product design projects are assigned. These projects will begin with simple, electrically powered products, and advance through more sophisticated electromechanical products. Emphasis will be placed on aesthetic development, user requirements, and design for manufacturability. Students will be expected to produce a report for each project and for the semester. A professional portfolio will be further developed. Prerequisite: IDDSN 256, IDDSN 218A &B, and IDDSN 309.  
3 semester hours
INDUSTRIAL DESIGN 306
Industrial Design Studio IV
Continuation of IDDSN 305.
3 semester hours

INDUSTRIAL DESIGN 309 (IDDSN 309/ITDSN 309)
Human Factors
Analysis of Human anatomy versus function. Recognition, investigation, exploitation of static/dynamic human movements. Relationships of products, systems and environments to the human scale. Ergonomics and motions that relate to the performance of tasks. Students will develop apparatus to provide significant quantitative data. Variety of advanced studies on dynamic interaction of the body and the environment, products, and systems. Study of the relationship of age, sex, and disabilities to human movements. Creative research projects and the development of mechanical/electric test prototypes to collect quantitative data.
3 semester hours

INDUSTRIAL DESIGN 311 (IDDSN 311/ITDSN 311)
Exhibit Design
A course exploring the fields of display and exhibit design including trade shows, fairs, theme exhibits, mobile exhibits, pavilion and museum design, point of purchase, window and showroom design. The student will be exposed to a variety of project experiences including rendered presentations, model making and construction details. Area included will cover special effects, dioramas, crowd flow management, lighting design, acoustics, graphics, signage, subcontract specifications and portfolio techniques unique to the field. Field trips. Prerequisite: ADSN 205, ADSN 206.
3 semester hours

INDUSTRIAL DESIGN 305
Industrial Design Studio V
A studio course where complex product system projects are assigned. Projects will include sophisticated electromechanical products. Emphasis will be placed on research, aesthetic development, user requirements, and design for manufacturability. Project reports will be generated which will include detailed analysis, synthesis, material specification, and complete design documentation. A professional portfolio will be completed. When possible, the student is encouraged to work with other professions like engineering and with corporate sponsorship. Prerequisite: IDDSN 306.
3 semester hours

INDUSTRIAL DESIGN 356
Industrial Design Thesis
A studio course where individual and interdisciplinary group projects of complex product systems are initiated and executed by the student(s). Projects will include sophisticated computer controlled electromechanical products and systems. Emphasis will be placed on research, aesthetic development, user requirements, material specifications, and design for manufacturability. A thesis report will be generated, which will include detailed analysis and synthesis, material specification and complete design documentation, including a set of working drawings and a final model and rendering. A professional portfolio will be completed. Prerequisite: IDDSN 355.
3 semester hours

INDUSTRIAL DESIGN 398
Internship I & II
Summer internship following the Sophomore and Junior years. The student is expected to locate a summer job with the assistance of the ID department. A mutually beneficial job description and expected output will be developed with the participating entity and conveyed to the student. A portfolio of projects is required. Where confidentiality is required, care will be taken to protect the company, yet provide the student with adequate work examples, including a strong emphasis on CAD/CAM. Students will develop a project(s) portfolio and complete an intern project report. 1-6 semester hours each

INDUSTRIAL DESIGN 399
Special Projects
This is an advanced studio course for competitions, sponsored projects, and other design projects like furniture and lighting. Students will develop a semester research/project report.
1-9 semester hours

INTERIOR DESIGN 200
Co-Op Work Experience
Through the co-op program, the student will be placed in full-time and part-time work working positions. Prerequisite: Completion of 30 semester hours; Permission of advisor and School Director; by arrangement.
3 semester hours

INTERIOR DESIGN 215
Interior Construction Systems
Students study architectural systems, details, and building codes. Construction methods and materials of foundations, walls, partitions, floors, ceilings, and roofs are covered, as well as doors, windows, stairs, and fireplaces. Continued study of building components and energy systems. Plumbing, heating, ventilating, air conditioning, acoustics and solar energy will be examined. Students will be able to represent knowledge of systems and sub-structure details.
3 semester hours

INTERIOR DESIGN 217
Color Studies for Interiors
This course is an extension of 2D principles/Color Theory. Students are introduced to further color studies and rendering techniques using various media. Additional studies will focus on composition of materials/color boards as visual presentation tools.
3 semester hour modules

INTERIOR DESIGN 218A (ITDSN 218A/IDDSN 218A)
Beginning CADD
This course is an introduction to computer aided 3D Modeling. Subjects covered will include Introduction and Interface, drawing 2D shapes, mixing straight lines and arcs, numerical input, generating, viewing and rendering objects, moving rotating, sizing and mirroring objects, and drawing derivative objects. Elementary projects may be assigned, and a semester report may be generated.
2 semester hours

INTERIOR DESIGN 218B (ITDSN 218B/IDDSN 218B)
Intermediate CADD
This is an intermediate class in computer aided 3D modeling. Subjects covered will include terrain models, curved lines and meshes, deformations, boolean, trim and stitch operations, and attaching extending and attaching objects. Intermediate projects will be assigned, and a semester report will be generated.
2 semester hours

INTERIOR DESIGN 107 (ITDSN 107/IDDSN 107)
Product Lab Orientations
This non credit course is required prior to student use of the lab equipment. It is an introduction to the proper operation of equipment and an understanding of the lab rules. Students will gain a respect for the equipment and an understanding and proper equipment practices. Eye protection and other safety protection will be worn at all times while in the lab.
0 semester hour
INTERIOR DESIGN 218C (ITDSN 218C/IDDSN 218C)

Advanced CADD
This is an advanced class in computer aided 3D modeling. Subjects covered will include reference planes and their palettes, drafting tools, advanced rendering, export features and animation models. Advanced projects will be assigned and a semester report will be generated.
2 semester hours

INTERIOR DESIGN 256

Studio II
Exploration of more complicated problems in commercial and residential interiors with continued emphasis on human factors, space planning, creativity and innovation. Application of knowledge of architectural systems to design solutions. Introduction to multi level spaces, atypical users and barrier free design. Design solutions will be presented using a variety of two and three dimensional presentation techniques.
3 semester hours

INTERIOR DESIGN 303

Materials, Products and Applications
Examination of background finishes and materials from construction and manufacturing processes through measurement and installation methods. Areas covered include floor, wall, and ceiling materials as well as woods, laminates, and glass.
3 semester hours

INTERIOR DESIGN 304

Business Practices and Ethics
Lecture course on business practices and professional ethics as applied to the Interior Design profession. Survey of business types, marketing and selling of services and products, and fee structures will be discussed. Current trends in safety, codes and licensing issues will be explored. Examination and preparation of business forms including contractual agreements, budget estimates, purchase orders, and invoices will be covered in depth and applied to the thesis project. Prerequisite: ITDSN 356
3 semester hours

INTERIOR DESIGN 305

Studio III
Introduction to more difficult Interior problems in both commercial and residential design. Students will work more advanced programming, space planning, circulation problems and human factors. Continued emphasis on creativity and innovative problem solving. Application of architectural and energy systems as well as safety and building codes to design solution. Sensitivity to atypical users and their needs will be expanded. Architectural and design details, materials and finishes will be incorporated in the final design proposal. Prerequisite: ITDSN 265, ITDSN 266.
3 semester hours

INTERIOR DESIGN 306

Studio IV
Continued development of knowledge and skills learned in Interior Design 305 to effectively solve interior design problems in residential and commercial design solutions. Design proposals will be presented Prerequisite: ITDSN 355.
3 semester hours

INTERIOR DESIGN 355

Studio V (Thesis)
Students will develop a thesis project in Interior Design which will highlight their ability to solve complicated design problems creatively while being sensitive to human factors, structure and energy systems, programming, circulation, materials and finishes, design details, custom cabinetry and furniture. The design solution will be presented using a variety of advanced two level and three dimensional techniques. Rationale for solution will be validated by research data. Prerequisite: ITDSN 356.
3 semester hours

INTERIOR DESIGN 356

Studio VI
Course involving extensive work in large office space planning and residential design. Knowledge of interior products and specifications will be incorporated into design solutions. Students will assemble a final portfolio representative of their design education experiences. Prerequisite: ITDSN 365.
3 semester hours

INTERIOR DESIGN 307

Lighting
An introductory course in Lighting for Interior Spaces. What light is, how it can be produced and how the eye perceives it will be examined. Students will learn basic lighting terminology as well as what equipment is available for commercial and residential use and their appropriate applications. The effect of light to create a mood or atmosphere will be explored. Lighting plans for interior spaces will be generated with an emphasis on technical as well as aesthetic concerns.
3 semester hours

INTERIOR DESIGN 309 (ITDSN 309/IDDSN 309)

Human Factors
Analysis of Human anatomy versus function. Recognition, investigation, exploitation of static/dynamic human movements. Relationships of products, systems and environments to the human scale. Ergonomics and motions that relate to the performance of tasks. Students will develop apparatus to provide significant quantitative data. Variety of advanced studies on dynamic interaction of the body and the environment, products, and systems. Study of the relationship of age, sex, and disabilities to human movements. Creative research projects and the development of mechanical/electric test prototypes to collect quantitative data.
3 semester hours

INTERIOR DESIGN 311 (ITDSN 311/IDDSN 311)

Exhibit Design
A course exploring the fields of display and exhibit design including trade shows, fairs, theme exhibits, mobile exhibits, pavilion and museum design, point of purchase, window and showroom design. The student will be exposed to a variety of project experiences including rendered presentations, model making and construction details. Area included will cover special effects, dioramas, crowd flow management, lighting design, acoustics, graphics, signage, subcontract specifications and portfolio techniques unique to the field. Field trips. Prerequisite: ADSN 205, ADSN 206.
3 semester

INTERIOR DESIGN 312

Furniture Design
Students will have an opportunity to do specialized design work in furniture. Exploration of materials, colors, textures, forms, human factors and manufacturing techniques to create uniquely aesthetic and functional solutions to furniture design problems. Students will be required to do free hand and orthographic
drawings as well as a variety of three dimensional models from sketch to final prototype. Prerequisite: ITDSN 309. 3 semester hours

INTERIOR DESIGN 362 Construction Documents
Preparation of Construction Documents for Interiors will be covered in depth and applied to the Thesis project. Drawings to be prepared include construction/demolition, electric/telephone, reflected ceiling, floor finishes, applied finishes, panel and post, and furniture plans as well as detail drawing for special construction, custom cabinetry, furniture and millwork. Prerequisite: ITDSN 365. 3 semester hours

INTERIOR DESIGN 398 Internship
Professional, supervised, paid or unpaid work in an organization related to career goals. Students will be required to develop a project portfolio and complete an intern project report. Prerequisite: Permission of advisor and School Director. 3 semester hours

Biology

BIOLOGY 100 Biology Study Skills
A course to expose students with limited science backgrounds to basic biochemistry, cell theory, physiology theory, and ecological theory and assist in the development of appropriate learning and study skills. Students will develop writing and presentation skills that will support them as they move into the more detailed basic science coursework required of science majors. 3 semester hours
Offered: Fall and Spring

BIOLOGY 101 General Organism Biology
The course examines the diversity of life in terms of their taxonomy, anatomy, physiology and ecology. Emphasis is placed on variation, adaptation, and evolutionary mechanisms. Prerequisites: Biology 100 or Biology 113, C or better, or instructor’s permission. Corequisites: Math 105. 3 class periods; 1 three-hour laboratory; 4 semester hours
Offered: Fall and Spring

BIOLOGY 102 Cell-Molecular Biology
Students are exposed to the general biological principles that govern all living organisms. Concepts dealt with include origin of life, structure and function of cells at the cellular and molecular level, biochemistry, genetics and evolution. Required of all biology majors. Prerequisites: Biology and chemistry with grade C or better. 3 class periods; 1 three-hour laboratory; 4 semester hours
Offered: Fall and Spring

BIOLOGY 106 Elementary Microbiology
This course is designed to provide students with an introduction to and overview of the key areas of microbiology for the healthcare professional. The course will cover the structure, growth, metabolism and genetics of microorganisms associated with human diseases. The course then covers host-microbe interactions and microbial diseases, and methods of control of infectious agents. 3 class periods; 1 three-hour laboratory; 4 semester hours
Offered: Fall and Spring

BIOLOGY 107 Introduction to Conservation
This course will introduce the discipline of conservation biology. Topics covered will include patterns of biodiversity and extinction, causes of extinction and population declines, techniques used to restore populations, landscape level conservation planning, and the role of conservation in protecting ecosystem services. The course will also explore the practical aspects of implementing conservation actions, conservation economics, and conservation law. 3 semester hours

BIOLOGY 111 Elementary Human Anatomy
A fully online one semester human anatomy and physiology course for non-science majors to fulfill the University’s natural science requirement for online Psychology majors and other undergraduates. 3 semester hours

BIOLOGY 113 Anatomy and Physiology I
Anatomy and physiology combined to yield a fundamental knowledge of the human body. Structure and function taught concurrently, each in terms of the other, to engender appreciation of interlocking relationships. 2 75-minute class periods; 1 two-hour laboratory; 4 semester hours
Lab Fee Assessed
Offered: Fall and Summer

BIOLOGY 114 Anatomy and Physiology II
Anatomy and physiology combined to yield a fundamental knowledge of the human body. Structure and function taught concurrently, each in terms of the other, to engender appreciation of interlocking relationships. 2 75-minute class periods; 1 two-hour laboratory; 4 semester hours
Lab Fee Assessed
Offered: Spring and Summer

BIOLOGY 200 Biology Cooperative Education
Students who enter the Biology Cooperative Education Program take this course for each semester that they are employed full-time or part-time in paid work assignments. A written report will be required describing significant achievements resulting from his/her work experience. Prerequisite: At least 30 semester hours with a 2.5 QPR and department approval. Pass/Fail only. 0-1 semester hour

BIOLOGY 201 Biosurvival
Learn to recognize local plants and animals and learn how they can be used to survive in the wilderness, pitch a weather resistant camp, make fires, purify water, and navigate on and off trail. A 3-day final survival hike is required. Prerequisite: 1 Basic Biology Course and Biology Deptment chair approval. 3 class periods; field trip required; 3 semester hours

BIOLOGY 202 Human Evolution
A three hour studio-type course, integrating the lecture and lab experience. Students will cover the basic principles and mechanisms of micro- and macroevolution and its impacts on the distribution of human populations, human health and human behavior. The class will combine lecture, reading, discussion, independent projects, and hands-on exercises from the biological literature and other disciplines involved in the study of human migration and the evolution of human sociality. Prerequisite: Biology 101 and Biology 102. 3 class periods; 3 semester hours
BIOL 303

Human Sexual Biology

Human sexual biology is examined within the context of male and female reproductive system structure, function and dysfunction. Modern biomedical and biotechnological issues and methodologies as they might relate to the present and future course of human sex and reproduction are explored.

3 semester hours

Offered: Fall only

BIOL 210

Comparative Anatomy

An integrated study of vertebrate structure from a phylogenetic approach. Laboratory studies will include dissection of representative forms. Prerequisite: Biology 101. Minimum Grade C.

2 class periods, 2 three-hour laboratory; 4 semester hours

Lab Fee Assessed

BIOL 211

General Physiology

Topics include physiological and biochemical control and functioning in systems. Laboratory work will acquaint the student with basic physiologic experimentation, and the interpretation and presentation of data. Required of all biology majors. Prerequisite: Biology 102.

3 class periods, 1 three-hour laboratory; 4 semester hours

Offered: Spring and Summer

BIOL 213

Anatomy and Physiology I

Anatomy and physiology combined to yield a workable knowledge of the human body. Structure and function taught concurrently, each in terms of the other to engender appreciation of interlocking relationships. Available to biology majors on a restricted basis.

3 class periods, 1 two-hour laboratory; 4 semester hours

Lab Fee Assessed

BIOL 214

General Anatomy and Physiology II

This is part two of a two semester course intended for biology majors. This course is an in-depth survey of human anatomy and physiology that examines the relationships between structure and function. The lecture topics will include basic chemistry, cell biology, histology, organs and organ systems. The two-hour laboratory includes experimental activities, microscopy and gross anatomy. Dissections will be used to study select organ systems. Although it is not required, it is recommended that students take this course in sequence (Biology 213 then Biology 214). Prerequisites: two courses from Biology 101, Biology 102, and Biology 213.

3 class periods, 1 two-hour laboratory; 4 semester hours

Offered: Spring only

BIOL 217

Field Biology

Students will design and implement a small research project requiring field work in a New England ecosystem as specified by the instructor. Emphasis is placed on the relationship between abiotic factors and plant communities. Prerequisite: Biology 101.

1 class period, field trip required; 1 semester hour

BIOL 223

Ecology

The course explores the relationship of organisms to their environment; distribution, climatic factors, ecological succession, homeostasis and adaptability of organisms are considered. Field trips designed to emphasize and illustrate major habitats, life zones, and ecological principles. Required of all biology majors. Prerequisite: Biology 101.

3 class periods, field trips by arrangement, 1 three-hour laboratory; 4 semester hours

Lab fee assessed

Offered: Fall only

BIOL 236

Vertebrate Biology

The evolution, physiology, and ecology of the vertebrates, with an emphasis on terrestrial taxa. Prerequisite: Bio 101.

4 semester hours

BIOL 300

Internship

Practical application of previous course work during supervised training in commercial, government or private laboratories. Prerequisite: Permission of Chair. By arrangement. Pass/Fail only.

1-16 semester hours

BIOL 303

Histology

Detailed analysis of the microscopic structure of animal cells and tissues. Laboratory work limited to study of prepared microscopic material. Prerequisite: Biology 102 and Biology 211.

3 class periods, 1 three-hour laboratory; 4 semester hours

Offered: Spring only

BIOL 307

Genetics

The laws of biological inheritance and their practical application to life; fundamental observations and concepts of classical and molecular genetics from Mendel to modern molecular biology. Topics include basic principles of heredity, chemical nature of the genetic material, genomics, cyto genetics, mutation, gene expression and regulation. Brief consideration of population genetics. Required of all biology majors. Prerequisite: Biology 101 and Biology 102, or instructor’s permission.

3 class periods; 3 semester hours

BIOL 307L

Genetics Laboratory

1 semester hour

BIOL 317

Mycology, Parasitology and Virology

Overview of medically significant fungi, parasites, and viruses. Emphasis will be placed on pathogenesis, modes of transmission, and identification. Laboratory techniques used in isolation, cultivation, and identification will be used. Also included will be discussions of epidemiology and host response regarding these microorganisms. Prerequisite: Biology 101, Biology 102 with a minimum grade of C.

3 class periods; 2 two-hour laboratory periods; 4 semester hours

Offered: Spring only

BIOL 318

Environmental Health

This course is designed to explore current environmental and public health concerns and issues. Students will gain an understanding of the interaction of individual and communities with the environment, the potential impact on health of environmental agents. The sequence of major topics begins with environmental epidemiology and toxicology, policy and regulation. The course then covers specific agents of environmental diseases. Domains of environmental health are addressed. Prerequisites: Biology 101 and Biology 102.

3 class periods, field trips by arrangement, 3 semester hours

Offered: Spring only

BIOL 320

Microbiology

Presentation of fundamentals of Bacteria, fungi and viruses; their relationships to man, industry, and agriculture. Laboratory study of cultural, morphological, physiological, and genetic properties of representative types. Emphasis on development of technique. Pre-
Biology

prerequisite: Biology 211.
2 class periods; 2 two-hour laboratory periods; and some nonscheduled laboratory work; 4 semester hours
Offered: Spring only

BIOL 321
Cell Physiology
A lecture course exploring the homeostatic mechanisms of the cell. Chemical composition, metabolism, permeability, synthesis and growth. Required of all biology majors. Prerequisite: Biology 211, Minimum grade B. 3 semester hours
Offered: Fall only

BIOL 324
Endocrine and Reproductive Biology
A review of endocrine tissues, the hormones they produce, and their mechanisms and interactions with special emphasis on human reproductive endocrinology and physiology. Prerequisite: Biology 211, Minimum grade B. 3 semester hours
Offered: Fall only

BIOL 330
Marine Biology and Ecology
Examination of the ecology of the oceans; relation of distribution to physical and chemical environments; productivity of marine communities; and the interaction of man with marine communities. Prerequisite: Biology 211, Minimum grade B 2 class periods; 1 three-hour laboratory; 4 semester hours

BIOL 331
Marine Science, Biology, and Ecology II
A continuation of the examination of the biology, ecology and physical environment of the oceans, with an emphasis on current experimental work in the field. Prerequisite: BIOL 330 4 semester hours

BIOL 332
Medical Microbiology
The study of infectious disease processes; the biology of pathogenic microorganisms; the etiology, pathology, diagnosis, and epidemiology of viral, bacterial, fungal, and protozoal diseases. Prerequisite: Biology 320 3 class periods; 1 three-hour laboratory; 4 semester hours

BIOL 341
Immunology
Consideration of the basic principles and concepts of the mechanics of immunity and the relation of immunological phenomena to biological problems. Prerequisite: BIOL 211 or instructors permission. 3 class periods; 1 three-hour laboratory periods; 4 semester hours

BIOL 343
Medical Genomics
This course covers the basic biochemistry of proteins and nucleic acids and the techniques used to isolate, quantify, and characterize them. The class focuses heavily on the genomics of disease processes and the techniques used to diagnose and manage them. The course includes both laboratory exercises and review of case studies. Prerequisite: Bio 102. 2 class periods; 1 two-hour laboratory; 3 semester hours

BIOL 344
Toxicology
Pharmacologic studies of the effects of drugs on living organisms and the adverse effects induced by physical and chemical agents, including therapeutic agents. Prerequisite: CHEM 206 and BIOL 211 or instructor's permission. 3 class periods; 1 three-hour laboratory periods; 4 semester hours

BIOL 345
Molecular Biology
The study of genes and their activity at the molecular level, DNA replication and repair, transcription, translation, recombination, translocation, and mutations. Techniques and experiments leading to important discoveries on DNA will be covered. Required of all biology majors. Prerequisite: BIOL 102, 211, CHEM 206. 3 lecture hours; 1 three-hour laboratory period; 4 semester hours

BIOL 380
Selected Topics
Modern concepts in the rea of the instructor's specialty. To be announced each semester. 1-4 semester hours*

BIOL 381
Virology
This course is aimed to advance undergraduates understanding of the fundamental aspects of prokaryotic and eukaryotic viruses. The course will cover viral morphology, taxonomy, molecular biology, disease, and control. Prerequisite: BIOL 211 or instructors permission. 3 class periods; 3 semester hours

BIOL 398
Readings
Individual library studies under faculty direction in an area of student interest. An acceptable paper must be presented. Prerequisite: Permission of the instructor and Department Chair. 1-6 semester hours*

BIOL 399
Directed Research
Opportunity for the student to pursue laboratory research under the direction of a faculty specialist. Prerequisite: Permission of the instructor and Department Chair. 1-6 semester hours*
*A student may not take more than 6 semester hours of total combined credit in 398 & 399.

BIOL 401
Ichthyology
4 semester hours

BIOL 403
Histology
Detailed analysis of the microscopic structure of animal cells and tissues. Laboratory work limited to study of prepared microscopic material. Prerequisite: Biology 102, 211. 3 class periods; 1 three-hour laboratory periods; 4 semester hours

BIOL 404
GIS
This course will teach the applications of and how to use mapping and spatial software like ArcGIS, QGIS, and others. Prerequisite: Math 109. 2 semester hours

BIOL 405
Invertebrate Zoology
4 semester hours

BIOL 414
Spatial and Biological Modeling
The course will discuss building and using mathematical model of biological and spatial processes, including inference for sampling methods. Prerequisite: Math 110. 3 semester hours
BIOLOGY 418
Environmental Health
This course is designed to explore current environmental and public health concerns and issues. Students will gain an understanding of the interaction of individual and communities with the environment, the potential impact on health of environmental agents. The sequence of major topics begins with environmental epidemiology and toxicology, policy and regulation. The course then covers specific agents of environmental diseases. Domains of environmental health are addressed. Prerequisites: Biology 101 and 102.
3 semester hours

3 class periods; field trips by arrangement, 3 semester hours

BIOLOGY 423
Natural Resource Management
Coastal and forest ecology, with an emphasis on the impacts of major disturbances such as fire, pest outbreaks, invasive species, and natural disasters. The course will explore factors promoting ecosystem resilience and conservation efforts. Prerequisite: Bio 107 and Bio 223.
3 semester hours

BIOLOGY 424
Climate Change and Biodiversity
A review of the recent literature on the impacts of climate change on local and global ecology and other factors that impact on biodiversity. The course will emphasize factors promoting ecosystem resilience and conservation efforts. Prerequisite: Bio 107 and Bio 223.
3 semester hours

BIOLOGY 425
Bio Technique SCUBA
1 semester hour

BIOLOGY 426
Urban Ecology
A review of the recent literature on the biodiversity and ecology of urban and near-urban biomes. The course will emphasize species turnover and how urban biodiversity impacts nearby habitats. Prerequisite: Bio 107 and Bio 223.
3 semester hours

BIOLOGY 470
Fieldwork
1-4 semester hours

BUSINESS ADMINISTRATION 100
Student Success
This course is designed to help create greater success in college and in life. The course will provide many proven strategies for creating greater academic, professional, and personal success. The students will use guided journal writings, group collaboration as well as individual sessions to explore strategies of achievement.
3 semester hours

BUSINESS ADMINISTRATION 101
Introduction to Business
This is an introductory course to business. Students will gain a better understanding of what business is, how business works as well as which skills and functions are required to effectively operate. The course will focus on environment of business, entrepreneurship, management, human resources, marketing, social media, e-business, accounting, finance, and the future dimensions of business opportunities in a global economy.
3 semester hours

BUSINESS ADMINISTRATION 102
Business Communications
Business communications refers to both external and internal communication that takes place within an organization. There are several methods of business communication, including: Web-based communication - e.g. webpages, advertisements, emails. It is a well-known fact that in order to be effective in today’s workplace, communication skills are a must. Individual business communication skills range from clear and logical planning, message analysis, organizing, writing, speaking, reading and listening skills. Understanding of the target audience’s cultural and behavioral characteristics via reading nonverbal cues is also included. This course aims to analyze the communication process, develop effective organizational and individual communication strategies, prepare visual aids, improve presentations skills and refine business writing using multiple formats. Background understanding of politcally correct, culturally sensitive, and ethically sound communication will also be reinforced.
3 semester hours

BUSINESS ADMINISTRATION 200
Co-op Work Experience
A paid work experience related to the student’s major. Faculty approval required.
0-1 semester hours
Offered: Spring/Summer/Fall

BUSINESS ADMINISTRATION 300
Philanthropy
3 Semester hours
Offered: Fall only

BUSINESS ADMINISTRATION 314
Real Estate Principles
An introduction to real estate. Survey of various aspects of the real estate business including marketing, finance, development, law, investment, and appraisal.
3 semester hours

BUSINESS ADMINISTRATION 382
Internship
Field study of an organization in action. Students can fulfill the course requirements in one of three ways: a) to do an internship in an outside organization or one of the learning institutes within the College, and submit a paper with an analysis of their experiential learning; b) to write a case study with critical evaluation of an organization in action; or c) to develop a new business venture and submit a comprehensive business plan.
3-6 semester hours
Offered: Spring/Summer/Fall

BUSINESS ADMINISTRATION 399
Independent Study
An opportunity to specialize in advanced projects not covered by regular course offerings. Students have individual conferences with assigned faculty members and meet several times as a group to discuss findings and common problems.
1-3 semester hours
Offered: Spring/Summer/Fall
CHEMISTRY 101
Chemistry, Society and You
This course deals with chemistry and its effect on society with examples dealing with the environment, pollution, the energy crisis and the drug culture. Students examine both the investigative methods of chemistry and its interaction with public policy.
3 semester hours

CHEMISTRY 103
General Chemistry I
A study of basic chemical principles and their application. This course is designed for the science and engineering majors and includes theoretical and experimental studies of such topics as composition and structure of matter, stoichiometry, chemical reactions, chemical bonding, gases, atomic and molecular structure, and periodic trends. Prerequisites: Mathe
matics 106.
3 lecture hours; 1 discussion period; 1 three-hour laboratory period; 4 semester hours Lab fee assessed

CHEMISTRY 104
General Chemistry II
This course completes the sequence in general chemistry for science and engineering majors. Equilibrium, acids and bases, thermodynamics, nuclear chemistry, introductory organic chemistry. Prerequisites: Chemistry 103 with minimum grade C.
3 lecture hours; 1 discussion period; 1 three-hour laboratory period; 4 semester hours Lab fee assessed

CHEMISTRY 113
Introductory Chemistry
An introductory course in chemistry for liberal arts and pre-professional students who wish to broaden their general education or feel that their previous preparation was inadequate. Pre-med and science majors are strongly advised to take CHEM 103, although credits may be given for the CHEM 113, CHEM 103, and CHEM 104 sequence. Prerequisite: Mathematic
s 103 with minimum grade C.
3 lecture hours; 1 two-hour laboratory or discussion period per week; 4 semester hours Lab fee assessed

CHEMISTRY 114
Introduction to Biochemistry
After a brief review of general chemistry and an introduction to organic chemistry, the chemistry and biochemistry of carbohydrates, fats, proteins, nucleic acids, vitamins, enzymes, and hormones are studied. Included is an introduction to diseases caused by metabolic disturbances and in-born errors of metabolism. Prerequisite: Chemistry 113 with minimum grade C.
3 lecture periods; 1 two-hour laboratory period per week; 4 semester hours

CHEMISTRY 200
Chemistry Co-op
Students who enter the Chem./Co-op Program take this course each semester they are on a paid work assignment with an employer. All work assignments must be approved by the Chemistry Co-op director. A report is required. Prerequisite: Chemistry 104 with minimum grade C.
1 semester hour per week-semester to a maximum of 6 semester hours

CHEMISTRY 201
Principles of Chemical Analysis
An introduction to the physiochemical behavior of electrolytic solutions, and its application to chemical separations and analyses. Prerequisites: Chemistry 104 with minimum grade C.
3 lecture hours; 1 three-hour laboratory period; 4 semester hours Lab fee assessed

CHEMISTRY 202
Principles of Organic Chemistry
Students registering in Chem 203 may not use it as a replacement for Chem 205 or Chem 206. Prerequisite: Chemistry 104 with minimum grade C.
3 lecture hours; 1 three-hour laboratory period; 4 semester hours
### Chemistry

**CHEMISTRY 399 Independent Study**

Opportunity for the student to pursue advanced individual study in his field of interest under the supervision of a specialist. Prerequisite: Permission of the instructor and the Department Chair.

*Semester hours (1-6) arranged*

**CHEMISTRY 366 Biochemistry II**

The unifying and quantifying central concepts of biochemistry are studies by applying fundamental physicochemical principles of biological systems. Mechanisms and regulation of major metabolic pathways and structure and function of cellular elements on the molecular scale are covered in detail. Prerequisite: Chemistry 206 with minimum grade C.

*3 lecture hours; 1 three-hour laboratory period; 8 semester hours Lab Fee Assessed*

### Chinese

**CHINESE 101 Elementary Chinese I**

In this course students are introduced to the Chinese language and culture. Basic skills in speaking, listening, reading, and writing are developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. This is a course for students with little or no knowledge of Chinese language.

*3 semester hours*

**CHINESE 102 Elementary Chinese II**

This course builds on the foundations laid in Chinese 101 and continues to introduce students to Chinese language and culture. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course students are expected to reach a beginner level of Chinese language proficiency and should be able to understand/identify familiar vocabulary and conversation topics; engage in a conversation in a target language on a familiar topic; express opinions/feelings about a familiar topic; read and comprehend short simple texts; write short simple sentences. Prerequisite: Chinese 101.

*3 semester hours*

**CHINESE 103 Intermediate Chinese I**

This course builds on the foundations laid in Chinese 101 and Chinese 102 and provides an opportunity to improve Chinese language proficiency beyond the beginner level. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. Prerequisite: Chinese 102.

*3 semester hours*

**CHINESE 104 Intermediate Chinese II**

This course builds on the foundations laid in Chinese 103. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Chinese language proficiency and should be able to understand/identify a range of vocabulary items and topics; engage in a conversation in a target language on a range of topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: Chinese 103.

*3 semester hours*

### Cinema

**CINEMA 181 INTRODUCTION TO FILM APPRECIATION**

This course introduces students to film analysis and appreciation, providing them with the critical tools necessary to understanding how films combine sound and image to communicate meaning and engage audiences. The course focuses on the foundational concepts of cinematic language and formal film elements, including genre, narrative structure, performance, and style. Screenings will cover a range of film eras and traditions.

*3 semester hours*

**CINEMA 183 FILM TECHNIQUE II**

This course builds on the concepts and analytical approaches introduced in Cinema 181 to provide a focused study of a particular film category, including films organized by genre, filmmaker, tradition, or industrial practice. Pre-requisite: Cinema 181

*3 semester hours*

**CINEMA HISTORY AND THEORY 262 FILM HISTORY**

This class provides an overview of film history, from its earliest forms in the 19th century to the multiple kinds of cinematic production of today. The primary goal of the course is to develop historical appreciation for the way technological, industrial, and cultural developments have impacted cinematic production and experience in different places and eras. The course will explore basic tools of film analysis, introducing students to critical, technical, and aesthetic concepts in response to particular cinematic practices.

*3 semester hours*
Cinema • Computer Applications and Information Systems • Computer Engineering

Computer Applications and Information Systems (CAIS)

COMPUTER APPLICATIONS AND INFORMATION SYSTEMS 101
Statistics
This course covers basic statistics, including descriptive statistics, probability, discrete distributions, continuous distributions, sampling, and hypothesis testing. This course is required of all Business students. Prerequisite: Math 103; Minimum grad C, or Math placement exam at Math 109, or higher.
3 semester hours
Offered: Spring/Fall Only

COMPUTER APPLICATIONS AND INFORMATION SYSTEMS 191
Computer Concepts
This course provides elementary instruction in basic productivity packages, like Microsoft’s Office 97. It is for those students with no prior exposure to computer applications.
3 semester hours
Offered: Spring/Fall Only

COMPUTER APPLICATIONS AND INFORMATION SYSTEMS 201
Intro to CAIS
This course covers computer and systems hardware, operating systems, application development, the value of information, databases, networks, and their integration and management within the modern firm. This course is required of all Business students. Prerequisite: CAIS 102.
3 semester hours

Computer Engineering

COMPUTER ENGINEERING 200
Undergraduate Co-op/Internship in Computer Engineering
By arrangement.
1-3 semester hours

COMPUTER ENGINEERING 210
Digital Design I
Basic digital design principles. Boolean algebra. Combinational logic design with gates, MSI, LSI. Sequential logic design, register, counters, memory and programmable logic. Prerequisite: Mathematical sophistication.
3 semester hours

COMPUTER ENGINEERING 212
Machine & Assembly Lang
3 semester hours

COMPUTER ENGINEERING 286
Introduction to Microprocessors
Theory and application of microprocessors, and associated peripheral devices such as memory, ports, clocks, system design and debugging techniques, including specific design problems using existing devices. Programming aids, including assemblers and simulators. Programming problems including peripheral device service routines and arithmetic operations. Information structures for real-time data acquisition systems. Prerequisite: Computer Engineering 210 and Computer Science 102.
3 lecture hours; 1 three-hour laboratory; 3 semester hours

COMPUTER ENGINEERING 300
Econ & Mgt of Engr Proj
3 semester hours

COMPUTER ENGINEERING 306
Compiler Design
3 lecture hours; 3 semester hours

COMPUTER ENGINEERING 308
Operating Systems
Structure and design issues in modern operating systems. Topics may include OS structure; Threads, CPU scheduling and synchronization of processes; deadlock management; main and virtual memory management; file management; file system interface; I/O structure
Prerequisite: Computer Science 102, Computer Engineering 312.
3 semester hours

COMPUTER ENGINEERING 311
Digital Design I
3 semester hours

COMPUTER ENGINEERING 312
Computer Organization
Organization of computer systems. Central processing unit; micro programmed control; input/output organization; interrupts; traps; direct memory access; arithmetic operations; main memory. Prerequisite: Computer Engineering 315.
3 semester hours

COMPUTER ENGINEERING 315
Digital Design II with Laboratory
Design of complex digital systems; top-down design and modularization. Implementation of controllers. Use of hardware design languages (VHDL) to implement systems. Rapid prototyping. Fault tolerant design. Prerequisite: Computer Engineering 210. Laboratory includes implementation of digital systems using FPGAs.
3 lecture hours; 4 semester hours; 1 three-hour laboratory

COMPUTER ENGINEERING 328
Computer Engineering Practicum
3 semester hours

COMPUTER ENGINEERING 336
Digital Design Lab
2 semester hours

COMPUTER ENGINEERING 338
Microprocessor Lab
2 semester hours

COMPUTER ENGINEERING 347
Logic Synthesis
Logic design using textual design entry, VHDL. Behavioral, structural and data flow descriptions. Technology-dependent vs. technology-independent design. CPLD, SEAM and antifuse technologies. Rapid prototyping and retargeting designs. A major design project. Prerequisite: Computer Engineering 315.
3 lecture hours; 3 semester hours

COMPUTER ENGINEERING 348
Introduction to VLSI Design
Design and implementation of a very large scale integrated circuits. CMOS and BiCMOS technologies, basic topological structure of ICs. clocking characteristics, resistance, capacitance and power estimation, system-level design and
implementation issues. Custom layout and verification using CAD tools. Synthesis of designs from VHDL descriptions. Term project will include the design and testing of an integrated circuit. Prerequisites: Computer Engineering 315 and Electrical Engineering 348.

3 lecture hours, 3 semester hours

COMPUTER ENGINEERING 349 A

Senior Project
Major open-ended design project to integrate student’s knowledge of hardware and software. Formulation of design specifications, use of design tools, feasibility considerations. Prerequisites: Computer Engineering 312, 387, Engineering 300, English 204, Integrated Studies C101 and senior status.

1 semester hours

COMPUTER ENGINEERING 349 B

Senior Project
Major open-ended design project to integrate student’s knowledge of hardware and software. Formulation of design specifications, use of design tools, feasibility considerations. Prerequisites: Computer Engineering 312, 387, Engineering 300, English 204, Integrated Studies C101 and senior status.

3 semester hours

COMPUTER ENGINEERING 360

Introduction to Robotics
3 semester hours

COMPUTER ENGINEERING 371

Data and Computer Communications

3 lecture hours, 3 semester hours

COMPUTER ENGINEERING 373

Local Area Networks
3 semester hours

COMPUTER ENGINEERING 387

Embedded System Design
Design of systems having major hardware and software components. Software implementations are used to control specific hardware such as micro controllers. Major laboratory emphasis to realize embedded systems. Prerequisite: Computer Engineering 286.

3 semester hours

COMPUTER ENGINEERING 389

Software Engineering
Structural development and methodology for large software systems. Planning requirements, design, test and validation. Advanced topics in software development. Prerequisites: Computer Science 102 and senior status.

3 semester hours

COMPUTER ENGINEERING 399

Independent Study in Computer Engineering
Independent study of advanced topics in Computer Engineering and submission of project report as required. Problem assignment to be arranged with and approved by the Department Chair. Open only to qualified seniors.

3 semester hours

Computer Science

COMPUTER SCIENCE 101

Introduction to Computing I
Introduction to high level languages, data types, subprograms; arrays and records. Top-down programming. Algorithmic development and flow charting.

3 lecture hours, 3 semester hours

COMPUTER SCIENCE 102

Introduction to Computing II
Introduction to data structures. Top-down design and structured programming, debugging. String processing, stacks, queues, lists, linked lists, trees, hash tables. Searching and sorting. Prerequisite: Computer Science 101.

3 lecture hours, 3 semester hours

COMPUTER SCIENCE 184

Digital Computer Programming
3 semester hours

COMPUTER SCIENCE 200

Undergraduate Co-op/Internship in Computer Science
By arrangement. 1-3 semester hours

COMPUTER SCIENCE 201

Advanced Data and File Structures
Advanced treatment of data structures and file structures including manipulating data stored in the file systems. Topics include fundamentals of file processing operations, secondary storage characteristics, and managing files of records. Additional topics will include performance file organization, sorting large files, multi-level indexing, 2-3 Trees, B-Trees, and Hashing and Extendable Hashing. Prerequisites: Computer Science 102.

3 lecture hours, 3 semester hours

COMPUTER SCIENCE 203

Second Programming Language
A class for computer science majors to broaden the programming background. Students will take a course in a language other than the current teaching language. This class is not an actual course, but a number of departmental course offerings may satisfy this requirement. Courses which may be taken will include computer science offerings which assume programming competency (CPSC 101 and CPSC 102 equivalent) in the instructional language. The department will announce courses which qualify for satisfaction of CPSC 203 requirement. Pre-requisites: CPSC 102 and CPSC 102a.

3 lecture hours, 3 semester hours

COMPUTER SCIENCE 227

Discrete Structures
This course is an introduction to some of the discrete mathematical structures relevant to computer science, including set theory, propositional calculus, predicate calculus, algebraic operations and relations, counting techniques, and graph theory. Prerequisite: MATH 109 with a “C” or better.

3 lecture hours, 3 semester hours

COMPUTER SCIENCE 300

Economics and Management of Computing Projects
The design process, engineering economics, project planning and ethics in engineering practice. A required course for all Computer Science majors, normally taken in the junior year, offered both semesters. Prerequisites: CPSC 102, 102a, MATH 215, PHYS112 and junior standing.

3 lecture hours, 3 semester hours

COMPUTER SCIENCE 301

Programming Languages
This is a second computer language course organized around the concepts of data objects, data types, abstraction mechanisms, sequence and data control, storage management, syntax, and operating environments. Several widely used programming languages are analyzed to illustrate these concepts. Pre-requisite: Computer Science 201.

3 lecture hours, 3 semester hours
Computer Science • Criminal Justice and Human Security

COMPUTER SCIENCE 302
Object-Oriented Programming Using C++
This course introduces the modern object-oriented programming philosophy using C++ to the beginning graduate students. The emphasis is on developing the programming thought process in terms of objects and their interactions to each other. Concepts covered include data hiding, code reuse through inheritance, polymorphism, templates, exception handling, developing appropriate class hierarchy and code maintenance for large software projects. Prerequisites: CPSC 102 or equivalent background.
3 lecture hours; 3 semester hours

COMPUTER SCIENCE 306
Compiler Design
3 lecture hours, 3 semester hours

COMPUTER SCIENCE 309
Artificial Intelligence Programming
3 semester hours.

COMPUTER SCIENCE 311
Computer Architecture
3 lecture hours, 3 semester hours

COMPUTER SCIENCE 320
Theory of Computation
Elements of the theory of formal languages, grammars, finite state machines, computability, primitive recursive functions, Turing machines and computation. Prerequisite: Computer Science 227.
3 lecture hours, 3 semester hours

COMPUTER SCIENCE 325
Structure and Interpretation of Computer Programs
3 lecture hours, 3 semester hours

COMPUTER SCIENCE 329
Fundamentals of Algorithms
This course aims to develop an understanding of the process by which an algorithm is developed to solve a problem and how it is translated into a working computer program. Emphasis is placed on problem-solving approaches and efficient programming techniques. Topics covered are: data structures, stacks, lists, trees, search algorithms, introduction to parsing and sorting techniques; structures programming; interactive and recursive programming; analysis of algorithms and special purpose algorithms. Prerequisite: Computer Science 201, 227.
3 lecture hours, 3 semester hours

COMPUTER SCIENCE 329 A
Senior Design Project
Student will initiate and complete a project that meets career interests and objectives. One or more faculty will be available to each student in a consulting capacity. The department chair must approve an outline of the project in the semester prior to registration for this course.
1 semester hour

COMPUTER SCIENCE 329 B
Senior Design Project
Student will initiate and complete a project that meets career interests and objectives. One or more faculty will be available to each student in a consulting capacity. The department chair must approve an outline of the project in the semester prior to registration for this course.
3 semester hours

COMPUTER SCIENCE 330
Data Structure Design
Survey of data structures used in data bases; relations; hierarchical and network data models; theoretical issues in data base processing; practical issues in data base design, programming, and implementation.
3 lecture hours; 3 semester hours

COMPUTER SCIENCE 350
Data Base Design
Survey of data structures used in data bases; relations; hierarchical and network data models; theoretical issues in data base processing; practical issues in data base design, programming, and implementation.
3 lecture hours; 3 semester hours

COMPUTER SCIENCE 351
Object-Oriented Programming
3 semester hours.

COMPUTER SCIENCE 359
Software Engineering
Structural development methodology for large software systems. Planning requirements, design, test, and validation. Advanced topics in software development. Prerequisite: Computer Science 102 and senior status.
3 semester hours

COMPUTER SCIENCE 360
Programming Pact
3 semester hours

COMPUTER SCIENCE 369
Independent Study in Computer Science
Independent study of advanced topics in Computer Science and submission of project report as required. Problem assignment to be arranged with and approved by the Department Chair. Open only to qualified seniors.
3 semester hours

Criminal Justice and Human Security

CRIMINAL JUSTICE AND HUMAN SECURITY 118
Intro Criminal Justice
This course is intended to introduce you to the
field of criminal justice and criminology. More specifically, we will explore how the American criminal justice system interacts with society and reacts to societal issues. In turn this will help us understand how society functions in response to the criminal justice system.

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 205
Law and Economics
This course introduces basic principles of economics and how those principles impact the formulation and operation of legal rules. Special emphasis is placed on the U.S. Constitutional system and key cases involving legal issues.

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 215
Intl Human Rights
This course discusses the recognition and protection of human rights in the international context, with a focus on contemporary controversies. A genuine interest in global affairs and international issues, an open mind, and an inquisitive learning attitude are the best qualities for getting the most out of this class.

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 218
Human Security
Human Security involves looking at world security issues from the perspective of individual people. This course introduces students to the concept of Human Security, its importance in meeting the basic needs of people and preventing state collapse, and its usefulness, in forging greater transnational accountability.

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 233
Intro US Legal System
This course will offer a comprehensive overview of the U.S. legal system, including an overview of legal practice sources and techniques with emphasis on the major substantive areas of the law. Students will begin by examining issues in constitutional law, with an overview of how government functions and how laws are made. A legal writing segment of the course will allow students to use legal analysis while refining their writing skills.

3 semester credits

CRIMINAL JUSTICE AND HUMAN SECURITY 265
Intro to Corrections
A multidisciplinary study of corrections from the 1800's to the present. Focus on the function of corrections from the perspective of United States, with comparative reference to other legal systems of the world. Emphasis is placed on the application of law to facts, and specific knowledge required by law enforcement personnel. Prerequisite: CJHS 118 or SOC 118

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 271
Law Enforcement & Society
This course focuses on the role of the police and law enforcement in American society. Key topics include the police profession, organization of law enforcement systems, the police role, police discretion, ethics, and police-community interaction. Law enforcement is examined in terms of political, social, cultural, legal, psychological, and organizational relevance in society. Prerequisite: CJHS 118 or SOC 118

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 299
Selected Topics
Prerequisite: Permission of Advisor and Dean

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 312
Victimology
This course examines the role of the crime victim. Topics include the identification of victims, victim assistance programs, victim compensation and repayment, and the treatment of the victim by law enforcement and the courts. The course also considers the victim-related role of major social institutions, including the family, schools, religious organizations, the medical profession, and financial and political organizations. Prerequisite: CJHS 118 or SOC 118

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 315
Criminology
Criminology is the social scientific study of crime and criminal behavior. This class first examines the nature and extent of crime, including the categories of crime, the people who engage in criminal activity, and how crime is measured. It examines theoretical explanations of crime, and the role of the criminal justice system in controlling crime.

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 343
Constitutional Law
This course examines the operation of the U.S. Constitution, as well as its origins, philosophical underpinnings, and current issues. Course work includes reading, discussing, and writing about constitutional issues.

3 credits

CRIMINAL JUSTICE AND HUMAN SECURITY 345
Comparative Criminal Law
This course examines the criminal law of the
Dental Hygiene

**Dental Hygiene 100**  
*Introduction to Dental Hygiene*  
This course provides the opportunity to develop basic knowledge of the dental hygiene profession and the responsibility of licensure. Students will learn the role of the dental hygienist in total patient care.

**Dental Hygiene 123**  
*Oral Anatomy and Embryology*  
This course is an introduction to the study of the oral cavity and its associated structures. Included in the curriculum are lectures covering anatomy, embryology and histology of oral structures and the head and neck, emphasizing teeth and their supporting tissues. Knowledge of content is emphasized during clinical practice.

**Dental Hygiene 124**  
*Dental Radiology*  
This course provides the fundamental scientific principles upon which clinical dental radiology is based. Content includes radiation history, radiation physics, radiographic anatomy, application to radiation safety for patient and operator, quality assurance, infection control practice, standard intra and extra oral radiographic techniques, quality film production and film evaluation.

**Dental Hygiene 127**  
*Pharmacology for the Dental Hygienist*  
General principles of pharmacology and use of pharmaceuticals; derivation and effect of drugs, especially those used in dentistry. Values and uses of chemical sterilizing agents, pre-and post-operative medications, anesthetics, antibiotics, and other pharmaceutical adjuncts to oral hygiene and dental care.

**Dental Hygiene 129**  
*Clinical Practice I*  
Introduction to the role and function of the Dental Hygienist in preventive dentistry; history and ethics of the Dental Hygiene profession; relationship of general and oral health to the disease process. Clinical hours are devoted to development of infection control procedures, oral self care, basic clinical skills of patient assessment/data collection, basic instrumentation, patient education and dental emergencies.

**Dental Hygiene 130**  
*Clinical Practice II*  
This course is a continuation of Clinical Practice I and focuses on the role of the Dental Hygienist as a preventive oral health specialist. Didactic and clinical experience is devoted to patient assessment, treatment planning, patient management, fluoride therapy, emergency response protocols, and continuing development of clinical skills to facilitate ethical and total patient care. Prerequisite: Successful completion of DHYG123, DHYG124 and DHYG 129.

**Dental Hygiene 140**  
*Introduction to Periodontology*  
This course provides the basic principles of periodontology, which covers the recognition of clinical characteristics of the periodontium, classification of periodontal diseases, role of microorganisms and local factors in the etiology of periodontal diseases.

**Dental Hygiene 204**  
*Nutritional Biochemistry*  
This course will teach the basic principles of science of human nutrition and nutritional biochemistry with an emphasis on the effects of nutrition on dental health. The focus will be on the roles of micro- and macronutrients and the importance of proper energy balance, digestion, absorption and metabolism of these nutrients. Correlations to dental hygiene are discussed at each class as it obtains to the weekly subject matter. Strategies of counseling patients to improve optimum oral health are taught throughout the course.

**Dental Hygiene 227**  
*Clinical Practice III*  
This course provides students the opportunity to expand on the basic dental hygiene skills learned in Clinical Practice I and II (DHYG 129 and 130) providing students with a practical and treatment oriented study of the oral manifestations of systemic diseases. Students will learn advanced instrumentation techniques and deliver comprehensive dental hygiene services in the Fones Dental Hygiene Health Center as well as in the community setting. The community setting will provide the students the opportunity to interact with a variety of patient populations. Evidence-based decision making will be a common theme throughout the semester. The student will utilize the dental hygiene process of care by assessing clinical information and external research to implement and evaluate the dental hygiene treatment care plan; applying the ADHA Standards of Clinical Dental Hygiene Practice. Prerequisite: Successful completion of all first-year required courses.

**Dental Hygiene 228**  
*Clinical Practice IV*  
Continuation of advanced didactic and clinical practices of Dental Hygiene 227. This course will assist the student in refining competence in all clinical procedures, developing variety of experiences of oral health and disease, and assimilate knowledge in order to use responsible decision-making and critical analysis that assures the health of the patient. The student will be introduced to professional ethics and dental jurisprudence, professional organizations, professional goals, state dental practice acts, and issues facing the dental hygiene profession. The student will expand self-assessment skills and evaluation of scientific literature as the basis for lifetime learning. Prerequisite: Successful completion of DHYG 227, 230, 233, 241, 250.

**Dental Hygiene 230**  
*Local Anesthesia*  
DHYG 230 Local Anesthesia for the Fones Dental Hygiene Students. This course is designed to prepare the student dental hygienist to qualify to administer local anesthesia and receive a certificate in local anesthesia acceptable in the State of Connecticut. The student will be introduced to safe, effective administration of local anesthesia through lecture, laboratory and clinical settings. The comprehensive content areas will include rational for pain management, client management, medical emergencies and review of essential anatomy, physiology, and pharmacology of pain control.
agents. In addition, the student will perform efficient techniques of pain management through local anesthesia on clinical partners under the direct supervision of clinical faculty.  

**DENTAL HYGIENE 232**  
**Dental Public Health**  
Dental Public Health consists of didactic and field work components in community services. It is designed to enable Dental Hygiene students to identify Dental Hygiene career opportunities within the public health setting; describe the structure and function of public health; explain federal, state and local legislation, policies and procedures pertaining to public health; assess the dental needs and demands of the public including special populations; and plan and evaluate dental health care programming. Prerequisite: Successful completion of all first year required courses.  
**3 semester hours**

**DENTAL HYGIENE 299**  
**Dental Hygiene Independent Study**  
Selected independent projects conducted under the supervision of a Dental Hygiene faculty member.  
**1-6 semester hours**

**DENTAL HYGIENE 301**  
**Dental Hygiene Practice Management**  
Through discussion of legal, regulatory, and ethical issues governing dental healthcare, the student will develop strategies to provide optimum client care and understand the Dental Hygienist role within an interdisciplinary healthcare team. Appreciation for the role of administrator / manager is obtained through lecture content and group activities focused on the development of communication, teamwork, personnel, business, and patient management skills. These skills are necessary to prepare for emerging practice models in dental healthcare.  
**3 Semester hours**

**DENTAL HYGIENE 302**  
**Instructional Strategies for the Health Professional**  
Assessment, planning, implementation and evaluation of various instructional methodologies/strategies to facilitate presentations. Fundamentals of instructional theory with practical skill applications.  
**2 lecture hours; two-hour observation/presentation; 3 semester hours**

**DENTAL HYGIENE 303**  
**Advanced Clinical Concepts**  
Advanced Clinical Concepts expands upon the basic knowledge and skills utilized in the dental hygiene process of care. Students are introduced to advanced clinical concepts through evidence based practice methods. Oral medicine, advanced periodontology, pain management, and current research and technologies are emphasized.

**DENTAL HYGIENE 304**  
**Dental Hygiene Internship**  
This course will provide the Dental Hygiene student with the opportunity to apply the knowledge and skills acquired throughout the dental hygiene curriculum in an internship experience. Under the guidance of the course instructor the dental hygiene student intern will select a field site in an alternative practice setting (not private practice). With the help of the site’s primary mentor the intern will set goals and objectives that will allow them to become an integral member of the organization. The internship will consist of direct observation, participation and supervised teaching or fieldwork. Prerequisite: DHYG 302.  
**By arrangement; 3-6 semester hours**

**DENTAL HYGIENE 305**  
**Dental Hygiene Research I**  
This course is designed to familiarize Dental Hygiene students with evolving professional trends related to private or public practice. Students, working in groups of two or three, will utilize and reinforce acquired Dental Hygiene research concepts while developing advanced assessment, planning implementation and evaluation skills, original research will be implemented. Required of all candidates for a Bachelor of Science degree in Dental Hygiene. Prerequisite: DHYG 302, DHYG 305 and senior status.  
**3 semester hours**

**DENTAL HYGIENE 306**  
**Dental Hygiene Research II**  
This course will provide the Dental Hygiene student with the opportunity to apply the knowledge and skills acquired throughout the dental hygiene curriculum in an internship experience. Under the guidance of the course instructor the dental hygiene student intern will select a field site in an alternative practice setting (not private practice). With the help of the site’s primary mentor the intern will set goals and objectives that will allow them to become an integral member of the organization. The internship will consist of direct observation, participation and supervised teaching or fieldwork. Prerequisite: DHYG 302.  
**By arrangement; 3-6 semester hours**

**DENTAL HYGIENE 315**  
**Statistical Reasoning**  
This course will provide a basic overview of statistical analysis and how certain tests can be performed to determine if there is a statistically significant relationship between variables. The student will receive an introduction to the use of statistical software for data analysis.
Economics

ECONOMICS 201
Principles of Economics I — Macroeconomics
Analysis of basic concepts; national income, employment, monetary and fiscal policy and economic growth.
3 semester hours
Offered: Spring/Fall Only

ECONOMICS 202
Principles of Economics II — Microeconomics
An analysis of price, output, income distribution, market structures and international trade.
3 semester hours
Offered: Spring/Fall Only

ECONOMICS 301
Money & Banking
3 semester hours
Offered: Spring Only

ECONOMICS 311
Managerial Economics
The theoretical analysis of the behavior of the consumer and the firm. Problems of income distribution, welfare economics, and general equilibrium analysis.
Prerequisite: ECON 201, ECON 202, ECON 309; junior or senior status.
3 semester hours

ECONOMICS 376
Business Forecasting
Macroeconomic forecasting to improve asset allocation and investment performance over the business cycle. Examining and forecasting the behavior of stock, bond, commodity and currency prices. Forecasting tools to analyze the economy and forecast price movements in the financial markets.
Prerequisite: ECON 201, ECON 202, and ECON 309; junior or senior status.
3 semester hours
Offered: Spring Only

Electrical Engineering

Undergraduate seniors may take graduate courses (400 level) with permission of their advisor.

ELECTRICAL ENGINEERING 200
Undergraduate Co-op/Internship in Electrical Engineering
By arrangement. 1-3 semester hours

ELECTRICAL ENGINEERING 208
Engineering Mathematics W/App
This course provides a foundation in mathematical principles with applications in engineering. It reviews functions, limit, derivatives, and integration and covers a broad spectrum of mathematical techniques important to the solution of engineering problems. Topics include ordinary and partial differential equations, power series, parametric and polar curves, vectors and matrices, linear algebra, the Laplace transform, the z transform, the Fourier series. Application of these topics to the solution of engineering problems is stressed.
Prerequisite: Mathematics 112, Mathematics 215.
3 semester hours

ELECTRICAL ENGINEERING 209
Engineering Analysis
Prerequisite: Mathematics 112, Mathematics 215.
3 semester hours

ELECTRICAL ENGINEERING 210
Digital Design I
Basic digital design principles. Boolean algebra. Combinational logic design with gates, MSI, LSI. Sequential logic design; register, counters, memory and programmable logic.
Prerequisite: Mathematical sophistication.
3 semester hours

ELECTRICAL ENGINEERING 233
Network Analysis I
DC circuits, mesh, node voltages, superposition. Steady-state AC, real/imaginary power. Bode plots, Ideal op-amp circuit analysis.
3 semester hours

ELECTRICAL ENGINEERING 234
Network Analysis II
Prerequisite: Electrical Engineering 233, Mathematics 112.
2 semester hours

ELECTRICAL ENGINEERING 235
Network Analysis I Lab
Use of resistor networks and DC voltage sources in various configurations; measurements of current flow and voltage difference. Introduction to RLC circuits in steady AC conditions. Familiarization with standard laboratory instruments.
Co-requisite: Electrical Engineering 233.
1 three-hour laboratory, 1 semester hour

ELECTRICAL ENGINEERING 236
Network Analysis II Lab
Steady state and transient analysis of RLC circuits. Typical series and parallel resonance circuits are examined and their parameters are experimentally determined; two pole network analysis, transformers; frequency response plots. Extensive use of the oscilloscope.
Prerequisite: Electrical Engineering 235, Co-requisite: Electrical Engineering 234.
1 three-hour laboratory, 1 semester hour

ELECTRICAL ENGINEERING 286
Intro to Microprocessor
Theory and application of microprocessors, and associated peripheral devices such as memory, ports, clocks, system design and debugging techniques, including specific design problems using existing devices. Programming aids, including assemblers and simulators. Programming problems including peripheral device service routines and arithmetic operations. Information structures for real-time data acquisition systems.
Prerequisite: Computer Engineering 210 and Computer Science 102.
3 lecture hours; 1 three-hour laboratory; 3 semester hours

ELECTRICAL ENGINEERING 300
Econ&Mgmt Engr Projects
The design process, engineering economics, project planning and ethics in engineering practice. A required course for all Computer Science majors, normally taken in the junior year, offered both semesters.
Prerequisite: Engineering 111 and Mathematics 110.
3 lecture hours; 3 semester hours

ELECTRICAL ENGINEERING 315
Fiber Optics
Prerequisite: Physics 112.
3 lecture hours; 3 semester hours

ELECTRICAL ENGINEERING 316
Fiber Optics Lab
Hands-on experience with fiber optic hardware: Fiber properties, sources, detectors, splices, connectors. Design and test fiber optic transmitter and receiver circuits for both analog and digital transmission. The experiments are related to optical fiber properties, losses, sources, detectors, splices, connectors, measuring the speed of the opto-electronic devices, design and test of fiber optic transmitter and receiver circuits for both analog and digital transmission.
Prerequisite: Fiber Optics.


**Electrical Engineering**

digital transmission, and design of a complete system. Pre-requisite: PHYS 112, Electrical Engineering 210 and 234.

**3 lecture hours; 3 semester hours**

**ELECTRICAL ENGINEERING 317**

**Controls**

At the end of this course, students will be able to: Derive the models for basic physical systems. Analyze the steady-state and transient behavior of basic feedback systems. Determine stability and performance of feedback systems using time-domain and frequency domain analysis methods. Design PID and lead-lag controllers to achieve design specifications. Perform basic simulation to verify system stability and performance. Pre-requisite: Mathematics 112, Electrical Engineering 209, 210, 234.

**3 lecture hours; 3 semester hours**

**ELECTRICAL ENGINEERING 333**

**Signal and Systems**

Students learn to analyze theoretically and by computer both continuous and discrete signals and the application of each to real-world problems. Applications involve the definition of a system, defined either by a laplace or z-transform and the output of same to the application of any input signal. Pre-requisite: Mathematics 112, Electrical Engineering 209.

**3 lecture hours; 3 semester hours**

**ELECTRICAL ENGINEERING 336**

**Digital Design II With Laboratory**

Design of complex digital systems; top-down design and modularization. Implementation of controllers. Use of hardware design languages (VHDL) to implement systems. Rapid prototyping. Fault tolerant design. Pre-requisite: Electrical Engineering 236. Laboratory includes implementation of digital systems using FPGAs.

**3 lecture hours; 4 semester hours; 1 three hour laboratory**

**ELECTRICAL ENGINEERING 337**

**Analog Electronics Lab I**

This is a hands-on analog circuit design lab. You will combine integrated circuits and discrete electronic components to design practical analog circuits for day-to-day industry use. Pre-requisite: Chemistry 103. Co-requisite: Electrical Engineering 348.

**3 semester hours**

**ELECTRICAL ENGINEERING 338**

**Analog Electronics Lab II**

This course focuses on designing of BJT’s and FET’s amplifiers. Students focus on design parameters such as gain, frequency response and matching impedance. Students develop in-depth understanding of theory of electronic devices and circuits through practical experiments. Pre-requisite: Chemistry 103. Co-requisite: Electrical Engineering 337.

**3 semester hours**

**ELECTRICAL ENGINEERING 341**

**Field Theory**

The course covers fundamental concepts of RF circuit design. Students will learn circuit level design of high speed analog/RF circuits. Specific topics include impact of scaling and noise in high-speed communication circuits, low noise amplifiers, mixers, power amplifiers and frequency synthesizers.

**3 lecture hours; 3 semester hours**

**ELECTRICAL ENGINEERING 342**

**Modern Communications**

ELEG 342 is a 3-credit first course on communications within the Electrical Engineering program. The objective of the course is to familiarize undergraduate students to the fundamentals of modern digital and analog communications systems. Pre-requisite: Mathematics 112; Co-requisite: Mathematics 323 and Electrical Engineering 333.

**3 semester hours**

**ELECTRICAL ENGINEERING 343**

**Power Electronics**

Application of power diodes and power transistors in rectifier arrangements and voltage regulators. Properties and application in power converters, inverters and motor drives.

**Pre-requisite: Electrical Engineering 348.**

**3 semester hours**

**ELECTRICAL ENGINEERING 346**

**Fundamentals of MEMS (Microelectromechanical Systems)**

MEMS (Microelectromechanical Systems) refers to devices and system with extremely small size in the range of microns. It is one of the most important high technologies developed in 20th century. MEMS and nanotechnology are believed to trigger the next wave of technology revolution. This course covers the fundamentals of MEMS technology. The topics include MEMS materials, MEMS fabrication techniques, MEMS structure analysis, MEMS sensing and actuation techniques, MEMS applications (inertial MEMS, MOEMS, BioMEMS, RFMEMS), signal sensing techniques for MEMS, MEMS packaging and reliability, etc. Pre-requisite: Senior status (90+ credits)

**3 semester hours**

**ELECTRICAL ENGINEERING 348**

**Electronics**

Application of diodes, bipolar transistors (BJT) and field effect transistors (FET) to signal amplification and switching. Computer Simulation. Pre-requisite: Electrical Engineering 234, 235 and Chemistry 103.

**3 semester hours; 3 semester hours**

**ELECTRICAL ENGINEERING 349**

**Senior Project**

Student work for approximately 150 hours performing research work within the department of Electrical Engineering. Emphasis is on good technical writing and imaginative design of solutions to a given problem. Pre-requisite: Senior status (90+ credits)

**Electrical Engineering 349.**

**3 semester hours**

**ELECTRICAL ENGINEERING 349A**

**Senior Design Project**

Student work for approximately 150 hours performing research work within the department of Electrical Engineering. Emphasis is on good technical writing and imaginative design of solutions to a given problem. Pre-requisites: Electrical Engineering 364 or 333 or 348.

**1-2 semester hours**

**ELECTRICAL ENGINEERING 349B**

**Senior Design Project**

Continuation of Design Project. Prerequisites: Electrical Engineering 349A. 2 semester hours

**ELECTRICAL ENGINEERING 350**

**Communications Lab**


**3 Semester hours**
Electrical Engineering • English

Electrical Engineering 351
Modern Communications
The course teaches the undergraduate student the fundamentals of both analog and digital communications, and it shows how analog technology is used to produce modern systems for the transmission of digital data. Prerequisites: Electrical Engineering 234 and Mathematics 112.
3 semester hours

Electrical Engineering 361
Controls Lab
Laboratory study of feedback control systems with experiments analyzing different types of plants, transducers and control techniques; emphasis on real-time computer control. Pre-requisite: Mathematics 112, Electrical Engineering 317.
3 semester hours

Electrical Engineering 364
Programmable Logic Control
This course will start with the basics of Boolean Algebra; it will cite the differences between PLC control and relay control and full automation of major machines and appliances; the differences in these controls will show how hard relay control is to implement and how flexible PLC control actually is; many different math functions will be analyzed and implemented in the theoretical construction of fully functioning PLC. Pre-requisite: Electrical Engineering 348; Co-requisite: Computer Engineering 315.
3 semester hours

Electrical Engineering 383
Analog Intg Ckt Desn
Do a complete analysis of the 741 op-amp, including bandwidth, gain analysis, slew rate, power efficiency and I/O impedances. Analyze ROM, Ram, TTL, ECL, CMOS and more modern logic structures including Fanout, noise margin, latching, contention, logic and delay response. Pre-requisite: Electrical Engineering 348.
3 lecture hours; 3 semester hours

Electrical Engineering 399
Independent Study in Electrical Engineering
Independent study of advanced topics in Electrical Engineering. Problem assignment to be arranged with and approved by the department.
3 semester hours

English
Courses designated ENGLISH fall under three categories: Composition, Creative Writing, and Language and Literature. Creative Writing courses are open to any undergraduate student and literature courses fulfill Humanities credit in General Education.

Composition

English 100
Basic Composition
Techniques of composition, including sentence structure, paragraph development, and organization of the full essay with regular written assignments. Additional emphasis on fundamentals to assist students with weak backgrounds. A grade of C- or better admits students to ENGL 101. Students who receive a grade of D+ or below must repeat ENGL 100. Students who have a grade of A or B at the end of the semester may take the final exam for ENGL 101. If they score an A or B on that examination and have the recommendation of their ENGL 100 instructor, they may waive ENGL 101.
Offered: Every Semester
3 semester hours

English 100A
Basic Composition Intensive
This course includes a writing lab component to assist students with weak backgrounds in writing. Techniques of composition, including sentence structure, paragraph development, organization of the full essay, with regular written assignments. A grade of C- or better admits students to ENGL 101. Students who receive a grade of D+ or below must repeat ENGL 100. Students who have a grade of A or B at the end of the semester may take the final exam for ENGL 101. If they score an A or B on that examination and have the recommendation of their ENGL 100 instructor, they may waive ENGL 101.
Offered: Every Semester
3 semester hours

English 101
Compositional and Rhetoric
English 101 introduces students to the techniques for clear and effective college-level writing. The goal will be to improve writing ability and to sharpen reading and critical thinking skills. This course focuses on the best ways to approach different types of college writing assignments. Students will study and practice the fundamentals of academic discourse, including essay organization and development, analysis, research techniques, documentation, and critical evaluation of academic writing. Grammar and word mechanics will also be reviewed to ensure that students communicate successfully in various tasks. English 101 fulfills the General Education credit for academic writing.
Offered: Every Semester
3 semester hours

English 102
Advanced Exposition
Essay writing, with a stylistic approach and a concern for accuracy in presenting or explaining ideas in an orderly, logical manner. Emphasis on improved clarity and effectiveness, through careful revision in written reports and assigned papers, especially those pertaining to the student’s major field. This course is required for Business majors and emphasizes professional writing. Prerequisite: English 101.
Offered: Every Semester
3 semester hours

English 204
Technical Writing for Computer Engineers
A workshop course that covers the following topics: lab reports, engineering memos, tech-
tional business plans, scientific/engineering grant proposals, patent applications, technical papers, user manuals of product/software, and final engineering project reports. Prerequisite: ENGL 101.

Offered: Every Semester
1 semester hour

Creative Writing

ENGLISH 201
Fiction Writing

Extensive writing in short fiction. Progression from simple narrative, basic character description, dialogue and scene writing to vignette, short-short and short story. Marketing advice. Specific emphasis varies with instructor. Designed for the undergraduate who writes well but needs practice, direction, motivation.

Offered: Every two years
3 semester hours

ENGLISH 205
Poetry Writing

For students with a demonstrated basic ability in the writing of poetry. Introduction to the techniques of poetry, covering such elements as meter, rhyme, image patterns, stanza forms, lyric, dramatic, narrative modes, blank verse, and free verse. Some history of poetic movements. Study of contemporary poetry. Work in the course is mainly writing and discussing of student poems.

Offered: Every two years
3 semester hours

ENGLISH 218
Autobiographical Writing

This course focuses on the use of personal experience and history as the basis for literary pieces such as travel, memoir, and epistolary writing. Students learn how to process their experiences through writing.

Offered: Every two years
3 semester hours

ENGLISH 220
Literature for Travel and Adventure

This course focuses on fiction and non-fiction works of travel and adventure in literature from the ancient Greeks to today. The course explores the various styles, themes, and purposes of travel and adventure writing; how locations, encounters, and beliefs influence individual works; and how travel literature affects and shapes its audience.

Offered: Every two years
3 semester hours

ENGLISH 228
Ethnic American Literature

Ethnic American Literature examines the literature of America’s ethnic groups, with particular focus on the 20th Century. The course inquires into the origin of ethnic self-identification as well as the issue of race in America; drawing upon significant literature written by representatives of such groups as Native Americans, Hispanics, Jews, Asians, Blacks and Italians.

Offered: Every two years
3 semester hours

ENGLISH 308
Advanced Creative Writing

Seminar workshop: Considerable attention to the creative desires of individual students. Student may choose to write poetry, short stories, sections of novels, drama. Emphasis on completed manuscripts, potential publication, individual explorations of form and content. Prerequisite: ENGL 201, 205, 218 or the permission of the instruction which is given only upon presentation of an acceptable piece of creative writing done by the student.

Offered: Every two years
3 semester hours

Language and Literature

ENGLISH 102
Introduction to Literature

A writing intensive course that uses representative examples of poetry, drama, and fiction to develop one’s ability to analyze and appreciate literature. Co-requisite: ENGL 101
3 semester hours

ENGLISH 110
Major Figures in Literature

This course is offered in three one-credit sections, each section dealing with representative works of a major writer, and lasting one-third of a semester. Students may register for one or more sections. Usually the writers are related by either period or genre, as in the case of Henrik Ibsen, George Bernard Shaw, and Anton Chekhov, or Jack Kerouac, Henry Miller, and Sylvia Plath. Co-requisite: ENGL 101

1 semester hour

ENGLISH 105A
Introduction to Drama

Introductory study of drama. Readings are drawn from a variety of genres and literary periods. Co-requisite: ENGL 101

3 semester hours

ENGLISH 105B
Introduction to Fiction

Introductory study of fiction. Readings include short stories and several novels. Co-requisite: ENGL 101

3 semester hours

ENGLISH 180
Science Fiction

Study of the science fiction and speculative fiction genre, covering such aspects as the history of science fiction; treatment of character, plot, heroes, style, theme; impact on society; role of science and space flight; ecological and mystical concerns. Authors read and discussed range from Hawthorne and Poe, Wells and Verne to Asimov, Heinlein, Bradbury, Clark, and Vonnegut. Co-requisite: ENGL 101

3 semester hours

ENGLISH 197
Masterpieces of English Literature

An attempt to get some feeling for and pleasure from the development and continuity of English literature. Readings and discussions of selected major works by major authors such as Chaucer, Shakespeare, Milton, Swift, Blake, Wordsworth, Dickens, Tennyson, and Lawrence. Co-requisite: ENGL 101

3 semester hours

ENGLISH 207
American Literature I

A survey of the major literary movements and their cultural contexts from the writings of the first settlers to the establishment of a uniquely American literature in the mid-nineteenth century. Prerequisite: ENGL 101

3 semester hours

ENGLISH 208
American Literature II

A survey of the literature of transition from an era of traditional and idealized values to one of realist and relativist perceptions, covering the period from the Civil War to World War II. Prerequisite: ENGL 101

3 semester hours

ENGLISH 209
British Literature I

A survey of British literature from the beginnings to the eighteenth century. Prerequisite: ENGL 101

3 semester hours

ENGLISH 210
British Literature II

A survey of British literature from the eighteenth century through the twentieth century.
Prerequisite: ENGL 101
3 semester hours

ENGLISH 212
Masterpieces of World Literature
An introduction to some of the core texts from the East and West, reflecting ancient, classical, and medieval traditions of great world cultures, ending with one or two masterpieces from the Early Modern period. Selections are drawn from the Bhagavad Gita, Gilgamesh, the Bible, Homer, Greek tragedy and comedy, Plato, Virgil, Dante, Cervantes, and others. Prerequisite: ENGL 101
3 semester hours

ENGLISH 213
Contemporary Drama
Dramatic works by British and American authors as well as works in translation primarily since World War II. Emphasis will be upon how to read a play, the difference between technical appeal and meaning, and similar fundamentals for reading drama for maximum understanding. The work of playwrights such as Williams, Albee, Pinter, Behan, Ionesco, Handke, Beckett and Shepard will typically be included. Co-requisite: ENGL 101
3 semester hours

ENGLISH 215
Thematic Studies in Literature
Introductory studies of literature in relation to major areas of concern in contemporary life. Courses will vary from semester to semester. Topics included are Travel and Adventure, Murder, Madness, Ethnic American Literature, and Law and Justice. Co-requisite: ENGL 101
3 semester hours

ENGLISH 216
Introduction to Poetry
By reading, discussing, and writing about a variety of English and American poems, students will develop their ability to read, understand, and enjoy poetry. Prerequisite: ENGL 101
3 semester hours

ENGLISH 223
Modern African-American Literature
Study of the fiction, drama, poetry, and essays of such significant black writers as Richard Wright, James Baldwin, Ralph Ellison, Lorraine Hansberry, Arna Bontemps, Malcolm X, and Toni Morrison. Co-requisite: ENGL 101
3 semester hours

ENGLISH 233
The Roots of Modern Culture
Topics and themes important to the understanding of the origin and development of modern Western society and culture. Subjects such as industrialism, the growth of the city, class conflict, the emergence of new values and expectations, the importance of war, and the role of minorities are explored in a variety of literary and historical texts. Prerequisite: ENGL 101
(Cross-listed as History 233)
3 semester hours

ENGLISH 232
Women in Literature
The course explores literary and gender studies, including stereotypes, myths and realities in the way women are viewed in literature. Authors include: D.H. Kate Chopin, Henrik Ibsen, Virginia Woolf, Edith Wharton, and Margaret Atwood. Co-requisite: ENGL 101
3 semester hours

ENGLISH 235
Contemporary Poetry
Lectures and discussion concerning such movements as Modernism, Imagism, and Feminism in the 20th century poetry. Can involve examination of non-Western poetry. Topics vary from year to year as the English faculty may direct. Prerequisite: ENGL 101
3 semester hours

ENGLISH 239
Independent Studies
For the student who wishes to specialize in advanced projects not covered by the regular course offerings. Individual or small group conferences with designated advisor. Prerequisite: Permission of advisor.
1-6 semester hours
Fashion Merchandising

FASHION MERCHANDISING 101
Fashion Fundamentals
The course includes an overview of the fashion industry; the changing world of fashion, history of retailing, the producers of fashion, global fashion markets, influential designers, and the auxiliary levels of fashion. This course also explores careers in fashion, and the most up-to-date computer technology. Students learn to use the basic technology to perform merchandising activities for manufactures, contractors, and retailers. This course uses PDM (Product Data Management) and Micrografx designer applications. PDM is the standard for the industry and Micrografx is a CAD system used to create silhouettes, color, fabrics, and manipulate images that interface with PDM. A trip to the NYC Fashion Markets is required.

3 semester hours
Offered: Alternating semesters annually

FASHION MERCHANDISING 107
HOME FURNISHINGS
The importance of home furnishing in the marketplace has expanded as new stores dedicated to home goods have opened and department stores have enlarged their home good departments. This course presents a comprehensive coverage of the materials and products used in home furnishings in the global market, and gives our students an opportunity to focus on the merchandising and marketing of these products in retail stores today.

3 semester hours
Offered: Alternating year

FASHION MERCHANDISING 108
Product Knowledge—Fashion Accessories
In-depth studies of fashion accessories and non-woven consumer products designed to give students a realistic appreciation of quality choices in merchandise selection, in performance standards, and consumer care. Specifically, the course emphasizes raw materials: leather, plastic, rubber, fur, precious metals, precious and semi-precious stones and products: shoes, hand-bags, luggage, gloves, furs, fine jewelry, cosmetics, and fashion accessories. Course requires that students research and prepare portfolios of fashion accessories from historic and current fashion periods. Students design and create some accessory items for the current marketplace.

3 semester hours
Offered: Alternating semesters annually

FASHION SHOW
A practical study of the techniques for Fashion Show production. The ultimate result is a fashion show presentation showing current styles from the New York and local fashion markets. Course includes planning, budgeting, organizing, writing commentaries, promoting, choosing fashions, staging and reviewing for the final show.

3 semester hours
Offered: Alternating semesters annually

FASHION MERCHANDISING OR RETAILING 299
Independent Study in Fashion Merchandising or Retailing Techniques.
Students select a faces of the fashion that they are interested in research in depth. Students present a ten to 15 page paper to supervising instructor and students Prerequisite: Permission of the Director and Advisor. Seniors only.

1-3 semester hours
Offered: Alternating semesters annually

FASHION MERCHANDISING 303
History of Costume
An introduction to the development of clothing and period dress.
Includes clothing designs and fabrications from Mesopotamia, Greek, Roman, Byzantine, the 12th, 13th, 14th, 15th and 16th Century, Renaissance, 17th Century Baroque, 18th, 19th Century through modern dress. A portfolio of historical and modern day adaptations of clothing is required. Prerequisite: FM101

3 semester hours
Offered: Alternating semesters annually

FASHION MERCHANDISING 398
Internship Experience
A full semester of part-time internship experience at a Fashion focused organization outside of the University. Students may select to intern with a retailer, a textile supplier, a fashion publication, or a showroom. Generally Corporate internships during the academic term are one or two days a week. Students need to complete a minimum of 120 hours of professional experience to receive credit for their experience. Students submit a fifteen page paper describing the organization in detail, the role their internship position contributed to the organization, a description of their specific job, and how their job was related to their field of study. Students describe the strengths and weaknesses of the organization as they perceive them and suggest areas of improvement. Juniors and Seniors only

1-3 semester hours
Offered: Every Semesters

FASHION MERCHANDISING 399
Independent Study (3 credits Seniors only)
STUDENT SELECTS A FASHION RELATED SUBJECT TO STUDY IN DEPTH. THE PRESENT A PAPER TO THEIR FACULTY ADVISER AND TO STUDENTS

1-3 semester hours

Finance

FINANCE 209
Financial Management
Fundamental tools of analysis for the financial management of the firm. Sources and uses of funds analysis for capital budgeting and working capital management. Prerequisites: ECON 201 and 202, CAIS 102; junior or senior status.

3 semester hours

FINANCE 309
Financial Management
Fundamental tools of analysis for the financial management of the firm. Sources and uses of funds analysis for capital budgeting and working capital management. Prerequisites: ECON 201 and 202, CAIS 102; junior or senior status.

3 semester hours

FINANCE 321
Investment Principles
Provides the student with the tools necessary for evaluating investments, including stocks, bonds, options and commodities. Additionally, it presents a systematic methodology for constructing efficient portfolios and evaluating portfolio performance. Prerequisite: FIN 309; junior or senior status.

3 semester hours
Offered: Spring/Fall only

FINANCE 345
Management of Financial Institutions
Financial management concepts and techniques for the managerial problems of depository institutions. Includes traditional bank management concerns and those resulting from the changing economic environment. Prerequisites: ECON 301; FIN 309; junior or senior status.

3 semester hours
Offered: Spring/Fall only
First Year Seminar

FIRST YEAR SEMINAR 101
First Year Seminar orients students to the University of Bridgeport’s academic culture and resources, guiding them in their transition to college life. The purpose of the course is to equip students with the knowledge and skills that will allow them to identify and meet their higher education goals. Learning outcomes for the course include communication skills, critical reasoning, information literacy and degree planning. Co-curricular programs include first-year-student-wide film screenings, guest speakers, discussions, and social events.

3 semester hours

FRENCH

FRENCH 101
Elementary French I
In this course students are introduced to the French language and culture. Basic skills in speaking, listening, reading, and writing are developed. Cultural readings and videos are included in each lesson giving the students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. This is a course for students with little or no knowledge of French language.

3 semester hours

FRENCH 102
Elementary French II
This course builds on the foundations laid in French 101 and continues to introduce students to French language and culture. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course students are expected to reach a beginner level of French language proficiency and should be able to understand/identify familiar vocabulary and conversation topics; engage in a conversation in a target language on a familiar topic; express opinions/feelings about a familiar topic; read and comprehend short simple texts; write short simple sentences. Prerequisite: French 101.

3 semester hours

FRENCH 103
Intermediate French I
This course builds on the foundations laid in French 101 and French 102 and provides an opportunity to improve French language proficiency beyond the beginner level. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. Prerequisite: French 102.

3 semester hours

FRENCH 104
Intermediate French II
This course builds on the foundations laid in French 103. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of French language proficiency and should be able to understand/identify a range of vocabulary items and topics; engage in a conversation in a target language on a range of topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: French 103.

3 semester hours

Geology

GEOLOGY 205
Environmental Geology
The application of geology to problems arising out of the interaction of man and the planet. Topics include natural resources and conservation, geothermal energy; geological hazards such as earthquakes, volcano, floods, mass movement and subsidence; and geology and regional planning; field trips. Recommended: a course in laboratory science.

2 lecture periods; 1 two-hour laboratory period; 3 semester hours

Gerontology

GERONTOLOGY 101
Introduction to Gerontology
An interdisciplinary overview of the implications of aging in American society. This course is designed to acquaint the student who is contemplating a career in gerontology, with the physical, psychological, social, economic and cultural dimensions of the total experience of growing older.

3 semester hours

GERONTOLOGY 276
MH Work w/Aged
This course provides an overview of the key ingredients necessary for a successful old age, with an emphasis on mental health needs of
older persons. Common emotional problems facing older persons are considered. Both functional and organic brain disorders, the major mental disorders of late life are also discussed. The course will review a variety of treatment principles and skills supportive of positive mental health among the elderly. Prerequisite: Gerontology 101 or Mental Health 101.

3 semester hours

GERONTOLGY 331
Process of Living and Dying
A seminar based on the premise that death and dying are closely related to life and living. This course explores the processes of death and dying, its effect on family members, cultural attitudes toward death, and various professional and paraprofessional roles available to deal with these issues. Prerequisite: Gerontology 101.

3 semester hours

GERONTOLGY 351
Social Gerontology
This course deals with societal aspects of aging and focuses upon socio-cultural factors that contribute to patterns of aging in the USA. Topics covered include the cultural meaning of aging, the socialization process of aging; the population dimension of aging; human ecology of the aged; social stratification among the aged; deviance and crime among the aged; social power of the aged; and social change and the aged. Prerequisites: Human Services 101 or Sociology 101.

3 semester hours

Health Sciences

HEALTH SCIENCES 102
Current Topics in Health Sciences
This required health science seminar course is designed to engage students in open discussions and debate of current topics impacting the health professions. Offered: Spring/Fall only

1 semester hour

HEALTH SCIENCES 201
Medical Terminology
This course introduces concepts and terms that are used within the health sciences and related fields. Offered: Spring/Fall only

1 semester hour

HEALTH SCIENCE 210
Global Public Health
This course provides an overview of global public health policy with the primary focus to engage and inspire students about the opportunities and challenges of global health. This course is divided into four sections: 1. Principles, measurement, goals, and development of global health. 2. Cross-cutting themes in global health. 3. The burden and distribution of disease and mortality. 4. Global health governance and cooperation.

3 semester hours

HEALTH SCIENCE 230
Fundamentals of Nutrition
The fundamentals of normal and therapeutic nutrition are presented. Attention is focused on the promotion of health, prevention of illness and the restoration of health following illness for injury. This course includes a self-analysis of the participant’s diet. Offered: Spring/Fall only

3 semester hours

HEALTH SCIENCE 240
Theory and Practice of Community Health Education
An introductory course that will provide students with the historical, philosophical and theoretical principles that govern the development of health education. Health promotion, the role of the health educator in clinical, community and school systems will be emphasized. Ethical issues, careers, organizations and future trends in the profession will also be examined. Offered: Spring/Fall only

3 semester hours

HEALTH SCIENCE 250
Intro to Community Health Education
This is an introductory course on public health principles and the current delivery systems in the US. It introduces the major areas of public health, epidemiology, health care management, environmental and social behavioral health, health informatics. Current problems and alternative solutions will also be examined.

Offered: Spring/Fall only

3 semester hours

HEALTH SCIENCES 255
Community Health Planning and Evaluation
Students will be provided with an overall process of planning and evaluating community health education programs as they relate to defined populations in a variety of setting. Emphasis is placed on impact assessment, program design, and efficiency measurement.

Offered: Spring/Fall only

3 semester hours

HEALTH SCIENCES 260
Intro to Exercise Science
This course presents an overview of the field of Exercise Science, including its development, professional activities and sub-disciplines.

Offered: Spring/Fall only

3 semester hours

HEALTH SCIENCES 270
Nutrition and Disease
This course focuses on nutrient and non-nutrient driven pathophysiological mechanisms that serve as the basis for disease. Prerequisite: Biology 102.

3 semester hours

HEALTH SCIENCES 280
Community Health Promotion
This course is designed to provide students with an overall understanding of principles and theories of health promotion as it relates to defined populations in a variety of settings.

Offered: Spring only

3 semester hours

HEALTH SCIENCES 299
Independent Study
1-6 semester hours

HEALTH SCIENCES 301
Biomechanics
This course provides an introduction to concepts of mechanics as they apply to human movement, particularly those pertaining to occupational work, exercise, sport, and general physical activity. The student will gain an
understanding of mechanical and anatomical principles governing human motion and develop the ability to link the structure of the human body with its function from the perspective of rigid body and deformational mechanics as they apply to biological tissues including bone, muscle, and connective tissue. Students will be expected to develop an understanding of the important issues regarding the application of engineering tools in the study of biological mechanics.

**Offered:** Spring only

**4 semester hours**

**HEALTH SCIENCES 320**

**Food Sanitation**

The course introduces concepts related to the production, storage, preparation of food for human consumption. Attention is given to disease processes and their relationship to food preparation and consumption. Topics covered also include the commercial, social, and legal environments of food production and recall of contaminated food.

**Offered:** Spring only

**3 semester hours**

**HEALTH SCIENCES 321**

**Exercise Science Anatomy & Physiology**

This course focuses on anatomy and physiology from the perspective of an exercise scientist. Nervous, skeletal and muscular systems are studied as primary functional systems in the context of exercise and performance. Cardiovascular, respiratory and urinary systems are studied as primary support systems in the context of exercise and performance. Other systems are studied as secondary support systems. This course is intended to replace general anatomy and physiology for students on the Exercise and Fitness track. A one credit laboratory component is also included.

**Offered:** Spring only

**4 semester hours**

**HEALTH SCIENCES 323**

**Food Service Management**

The basic principles of microbiology, sanitation, safety, equipment selection, and facility layout for a food service operation are explored, including environmental control and the prevention of food-borne illnesses, cleaning materials and procedures, general safety regulations, food processing methods, first aid, and fire prevention. Prerequisites: Health Sciences 230 or Nutrition 205.

**Offered:** Fall only

**3 semester hours**

**HEALTH SCIENCES 325**

**Exercise Physiology**

This course examines how muscles make energy under exercise stress and how fitness behaviors and strategies affect performance, health and wellness. Emphasis is placed upon the muscular performance at the cellular/molecular level, as well as cardiovascular, respiratory, and other physiological processes that occur as a result of exercise and training. A one credit laboratory component is also included. Pre-requisites: Health Sciences 321 or Biology 113 and Chemistry 113, Chemistry 114, Mathematics 105 or Mathematics 106.

**Offered:** Fall only

**4 semester hours**

**HEALTH SCIENCES 326**

**Health Policy and Management**

The influence of policy and management of community health education will be examined. Societal and professional influences emerging threats on health and health policy will be discussed.

**Offered:** Fall only

**3 semester hours**

**HEALTH SCIENCES 329**

**Health Care Administration**

This course is designed to familiarize the student with the administrative concepts necessary to effectively administer health facilities and departments. Emphasis is placed on leadership, decision making and problem solving skills. Prerequisite: Health Sciences 250.

**Offered:** Spring only

**3 semester hours**

**HEALTH SCIENCES 330**

**Health Issues for Special Needs Populations**

This course introduces students to special needs populations, including those who are recovering from recent illness or accidents. Attention is given to resources (medical, social, and legal) in the support of these populations.

**Offered:** Fall only

**3 semester hours**

**HEALTH SCIENCES 331**

**Kinesiology**

The gross anatomy of the skeletal and muscular systems and the analysis and study of human movement and biomechanics are the focus of this course. Emphasis is placed on anatomical and mechanical analysis of motion as it pertains to movement in sport and exercise.

**Offered:** Fall only

**3 semester hours**

**HEALTH SCIENCE 335**

**Fitness and Wellness Program Development**

The course examines features of fitness and wellness program design and development. Disease prevention as a feature of fitness and wellness is studied in detail, with attention to social systems and infrastructure. Prerequisites: Health Sciences 321 or Biology 113 and Biology 114.

**Offered:** Spring or Fall only

**3 semester hours**

**HEALTH SCIENCES 335**

**Health Sciences Senior Project**

Prerequisites: Health Sciences 326 and 330.

**Offered:** Spring or Fall only

**3 semester hours**

**HEALTH SCIENCES 340**

**Comparative Diet Strategies**

This course explores and compares various dietary strategies, including low-fat, high-carbohydrate, high-protein, macronutrient-balanced, macrobiotic, high-fiber, vegetarian, vegan, Paleolithic and Mediterranean. The pros and cons of these various approaches are discussed, along with the evidence-base that exists, or does not exist, to support their use. Prerequisite: Health Sciences 230.

**Offered:** Spring only

**3 semester hours**

**HEALTH SCIENCES 341**

**Strength & Conditioning**

This course covers the anatomy and physiology, training sequences, available equipment, and safety factors, including contra indications, in the optimal development of strength and conditioning. Prerequisite: Health Sciences 321.

**Offered:** Spring only

**3 semester hours**

**HEALTH SCIENCE 345**

**Community Nutrition**

This course will provide students with the knowledge, skills, tools and evidence-based approaches needed by community nutritionists to promote health and prevent diseases. Prerequisites: Health Sciences 230 or Nutrition 205.

**Offered:** Spring only

**3 semester hours**

**HEALTH SCIENCES 350**

**Disease Prevention as a Feature of Fitness and Wellness**

The course examines features of fitness and wellness, including environmental control and the prevention of food-borne illnesses, cleaning materials and procedures, general safety regulations, food processing methods, first aid, and fire prevention. Prerequisites: Health Sciences 230 or Nutrition 205.

**Offered:** Fall only

**3 semester hours**

**HEALTH SCIENCES 351**

**Vitamins and Minerals**

Basic and clinical aspects of macronutrients will be discussed with emphasis on vitamin and mineral metabolism at the cellular and tissue level. Lectures will include specific
Health Sciences • History

functions, requirements, sources, and effects of deficiencies and excesses of vitamins and minerals. Prerequisite: Health Sciences 230.

Offered: Fall only
3 semester hours

HEALTH SCIENCES 361
Fitness Assessment
Examination of topics such as body composition, cardiorespiratory fitness, nutritional analysis, pulmonary function, flexibility, muscular strength with respect to the development of individual fitness assessment programs. Prerequisites: Health Sciences 321 or Biology 113 and Biology 114.

Offered: Fall only
3 semester hours

HEALTH SCIENCE 365
Epidemiology for Health Science Professionals
The course introduces the study of disease process, with special attention to transmission, containment, and treatment. Topics covered include urban environments, travel, socioeconomic conditions affecting the spread of disease, and the like.

Offered: Spring/Fall only
3 semester hours

HEALTH SCIENCES 370
Clinical Herbology & Botany
This course presents a study of the use of herbs in nutritional practice. Lectures will include the plant sources, mechanism of action, pharmacological/toxicological properties, and clinical applications of individual medicinal herbs commonly used for the promotion of health. Prerequisites: Health Sciences 230 or Nutrition 205.

Offered: Fall only
3 semester hours

HEALTH SCIENCES 371
Exercise Nutrition
The course examines aspects of sports nutrition detailing proper dietary and nutritional supplement protocols for enhancing endurance and performance during exercise and sport. Prerequisites: Health Sciences 325, Biology 113, Biology 114, Chemistry 113, Chemistry 114.

Offered: Fall only
3 semester hours

HEALTH SCIENCES 372
Special Topics in Nutrition, Foods and Health
This seminar-based course focuses on contemporary topics that pertain to nutrition, foods and health. Prerequisites: Chemistry 103 and Chemistry 104.

3 semester hours

HEALTH SCIENCES 373
Nutrition Assessment and Communication
This course focuses on nutrition assessment, evaluation, and communication techniques. Educational methods, dietary strategies, and nutritional counseling will be covered. Prerequisites: Psychology 103 and Health Sciences 230.

Offered: Spring only
4 semester hours

HEALTH SCIENCES 374
Food Science
This course focuses on the chemical basis for human sensory effects exerted by food and its preparation. Prerequisites: Chemistry 103 and Chemistry 104.

4 semester hours

HEALTH SCIENCES 375
Internship in Nutrition
A senior-year supervised field experience, conducted in a University approved setting, which is designed to provide the student with career related experience in the field of health and nutrition science. Prerequisite: completion of 80 credits.

Offered: Spring/Fall only
3 semester hours

HEALTH SCIENCES 381
Internship in Exercise & Fitness
A structured off-campus learning experience designed to provide senior students with a practical professional experience in Fitness and Exercise Science. Prerequisites: Health Sciences 240, 250, 260, 321 or 325.

Offered: Spring/Fall only
3 semester hours

HEALTH SCIENCE 385
Community Health Education Internship
Professional field experience will provide students an opportunity to apply previously acquired knowledge and skills in the assessment, planning, implementation, and evaluation phases of community health education. Prerequisites: Health Sciences 240, 250, 255, 260, 280.

Offered: Spring/Fall only
3 semester hours

HEALTH SCIENCE 386
Health Sciences Research
This course provides an introduction to the fundamentals of research study design and methodology in the health sciences. Emphasis will be placed on qualitative and quantitative research, mixed method research, and action research. Students will develop a research proposal in their area of interest. Prerequisites: Mathematics 203.

3 semester hours

HEALTH SCIENCES 387
Health Sciences Information Literacy
This course introduces topics in information literacy, including information analysis and evaluation, the most important databases in health care and health sciences fields, and the like. Prerequisites: Biology 113, Biology 114, Chemistry 113, Chemistry 114.

3 semester hours

HEALTH SCIENCES 388
Health Sciences Information Literacy
This course introduces topics in information literacy, including information analysis and evaluation, the most important databases in health care and health sciences fields, and the like. Prerequisites: Biology 113, Biology 114, Chemistry 113, Chemistry 114, Health Sciences 321, Mathematics 203, Mathematics 203B.

3 semester hours

History

HISTORY 100
Major Figures in World History
This course is offered in three one-semester hour sections, each section dealing with one person of historical significance, and lasting 12 class periods. Students may register for one or more sections. Usually the three persons are related chronologically or thematically, as in the case of Hitler, Mussolini and Stalin, or Washington, Jefferson and Adams, or Florence Nightingale, Emmeline Pankhurst, and Emma Goldman.

Offered: Every two years
1 semester hour

HISTORY 101
World Civilization I to the 17th Century
The first semester of a historical survey of world cultures. The development of social, political, economic, and religious institutions and the major trends of philosophy, science, literature, and art.

Offered: Every other semester
3 semester hours

HISTORY 102
World Civilization II — 17th Century to the Present
The second semester of a historical survey of
major world cultures. Because of the nature of the period studied, additional emphasis on political, economic and social developments and on the role of science and technology.

**Offered: Every other semester**

**3 semester hours**

**HISTORY 227**

**American History to 1877**

European background to discovery and exploration. The English colonies; struggle for North America; the Revolution; constitutional development; growth of democracy; westward expansion; sectionalism; Civil War and Reconstruction. Major political, social, economic, and cultural trends in American society through Reconstruction.

**Offered: Every other semester**

**3 semester hours**

**HISTORY 228**

**American History Since 1877**

Gilded Age; industrial development; big business; expansion; imperialism; the U.S. as a world power; wars and foreign affairs; constitutional trends; political developments, economic and social trends and problems; cultural trends.

**Offered: Every other semester**

**3 semester hours**

**HISTORY 229**

**Modern England**

Study of factors contributing to the world power status - such as industrialization, colonial expansion, parliamentary democracy, foreign policy and armaments. Examination of impact of two world wars on national decline; popular culture in 19th and 20th centuries; the Welfare State; status of the Monarchy, the Irish enigma; European affiliation and its possibilities.

**3 semester hours**

**HISTORY 230**

**The Civil Rights Movement**

**3 semester hours**

**HISTORY 231**

**History of Science**

This course provides a global perspective on the growth of human knowledge by tracing the development of science and technology from the beginning of civilization to the present day.

**3 semester hours**

**HISTORY 232**

**Roots of Modern Culture**

Topics and themes important to the understanding of the origin and development of modern Western society and culture. Subjects such as industrialism, the growth of the city, class conflict, the emergence of new values and expectations, the importance of war, and the role of minorities are explored in a variety of literary and historical texts. (Cross-listed as English 233)

**Offered: Every two years**

**3 semester hours**

**HISTORY 233**

**Latin American History**

Introductory survey of the people, culture, geography, and history of Latin America. Periods include the Pre-columbian civilizations, European empires and colonial expansion, wars of independence and the national period, with focus on political economy, revolution, social reform, international relations, and the regional influence of science and technology.

**3 semester hours**

**HISTORY 250**

**Independent Study in History**

Designed for the student who wishes to develop a survey project not covered by the listed course offerings. Individual or group conferences with designated faculty advisor.

**Prerequisite: Permission of School Director**

**Offered: Every semester**

**1-6 semester hours**

**HISTORY 304**

**Civil War and Reconstruction**

Causes of the war; sectionalism, slavery, the territories, economic, social and intellectual factors, secession and war; major military campaigns, constitutional developments, presidential and congressional reconstruction, and the disputed election of 1876.

**Offered: Every two years**

**3 semester hours**

**HISTORY 305**

**Connecticut History**

The history and geography of Connecticut and study of the political and social development of Connecticut towns, lands and political institutions.

**3 semester hours**

**HISTORY 316**

**Early African-American History**

A study of the slavery experience from 1619 to 1877 focusing on the political, social, and economic aspects of the system, and the varieties of resistance to the system. Prerequisite: English 101.

**Offered: Every two years**

**3 semester hours**

**HISTORY 317**

**Twentieth Century African-American History**

A study of African-American leadership, its ideas, and the impact of its ideas upon various African-American movements, such as integration, emigration, separatism, civil rights, and black power. Prerequisite: English 101; minimum grade C.

**Offered: Every two years**

**3 semester hours**

**HISTORY 335**

**Topics in European/Non-West History**

This course traces the history of the United States from the onset of the First World War through the ending of the Second World War. It gives a global perspective of the world wars, examining the rise of nationalism, the Great Depression and its aftermath, and the rise of fascism and communism. It will take a war-and-society approach to the conflicts which devastated Europe and changed America's relation to the globe.

**3 semester hours**
HISTORY 336
Portrait of an Age
Comprehensive study of life and manners of a particular historical period, with emphasis on original sources such as diaries, memoirs, official records, literature, and art and music. Periods could include the ante-bellum South, the Gilded Age, Victorian Society in England or the United States, France in the time of Louis XIV, and so on. May be repeated for credit if topics vary. Prerequisite: English 101.
Offered: Every two years
3 semester hours

HISTORY 361
Modern Africa
This course takes up where History 360 leaves off. It addresses the following: 19th century colonialism in Africa, African resistance to European colonization, African independence movements, decolonization in the mid 20th century and the subsequent establishment of independent African states. Prerequisite: English 101.
Offered: Every two years
3 semester hours

HISTORY 398
Internship
Professional, supervised, unpaid work in an organization related to career goals. Prerequisite: Permission of advisor and School Director. Prerequisite: Permission of advisor and School Director.
1-3 semester hours (Every Semester)

HISTORY 399
Independent Study in History
For the student who desires to specialize in advanced projects not covered by the regular course offerings. Individual or group conferences with designated faculty advisor. Prerequisite: Permission of School Director.
1-6 semester hours

Human Services

HUMAN SERVICES 101
Introduction to Gerontology
An interdisciplinary overview of the implications of aging in American society. This course is designed to acquaint the student who is contemplating a career in gerontology, with the physical, psychological, social, economic and cultural dimensions of the total experience of growing older. 3 semester hours

HUMAN SERVICES 105
Strategies for Effective Parenting
Students will acquire relevant child-raring information and constructive parenting techniques. Several therapy models useful for understanding child development will be explored. Emphasis will be on exploring personal parenting influences and preparing students to parent positively. 3 semester hours

HUMAN SERVICES 110
Alcohol and Other Drugs in Society
This course explores alcohol and other drug use and abuse in society. Included in the course will be a historic review, the role of culture in use of drugs, the effect on society, the family and the individual, and an overview of the etiology, assessment and treatment of dependence. 3 semester hours

HUMAN SERVICES 150
Career Management
This course prepares students to manage their own careers early in their college experience for their eventual college to work transition. Through self-exploration, students learn more about themselves in relationship to the world of work and about creating college experiences that will make them more marketable in a global community. 1-3 semester hours

HUMAN SERVICES 201
Introduction to Counseling
This course focuses on skills, theories and techniques of the helping profession. The importance of helpers knowing themselves is crucial in the helping field. An integrated, experiential component designed for self-exploration and increased understanding of self is explored through family of origin work. 3 semester hours

HUMAN SERVICES 203
Introduction to Human Services
This course briefly explores the historical beginnings of the human service field and focuses on the present day service delivery models, the needs of clients and the training of human service professionals. An integrated approach including community site visits and case studies will assist students in gaining a firm understanding of this field. 3 semester hours

HUMAN SERVICES 205
Counseling Methods for Specialized Populations
Students study through biographies specialized populations (i.e. those with mental and physical disabilities, drug and alcohol users, and emotionally, physically, and sexually abused) while becoming familiar with the various counseling approaches useful in effecting changes in these individuals. 3 semester hours

HUMAN SERVICES 225
Sign Language I
This course introduces students to the Art of Sign Language. Using American Sign Language they will be able to communicate on a basic level. Students will learn subtle aspects of language, such as facial expression, gestures (non-verbal communication), use of classifiers, and directional verbs. Students will learn the manual alphabet and be able to use it in the everyday interactions if needed. 3 semester hours

HUMAN SERVICES 230
Sign Language II
Sign Language II will reinforce the knowledge students have gained in Sign Language I. Using American Sign Language, students will begin to speak more fluently. Their skills will be perfected as they continue to learn subtle aspects of the language, such as facial expressions, gestures, from verbal communications, use of classifiers, and directional verbs. Students will perfect the manual alphabet and be able to use it in their everyday interactions when needed. 3 semester hours

HUMAN SERVICES 277
Practicum in Human Services
Students enrolled in the practicum receive individually arranged on-site placement in human service agencies. This arrangement is intended to provide students the opportunity to experientially investigate the specific area of interest that they have developed and/or to allow for the individualization necessary to meet the student’s specific skill area needs. Students are expected to be concurrently in a class where they have an opportunity to discuss and process their on-site learning experiences. 1-6 semester hours (Every Semester)

HUMAN SERVICES 299
Special Topics
Investigation of current topics in the human services field. 1-6 semester hours

HUMAN SERVICES 301
Crisis Management
Students are exposed to models of crisis intervention that facilitate crisis resolution. Crisis theory, critical factors, developmental and situational crisis as well as intervention with
unique populations and special issues are discussed. Course includes competency-based skill-building exercises. Prerequisites: HUSV 201 or HUSV 203 and HUSV 205. Minimum grade C.  
3 semester hours  
HUMAN SERVICES 302  
Multicultural Perspectives in Human Services  
This course provides a background in cultural diversity and competence specifically related to human services settings. This includes culturally centered communication skills related to clients. It also includes sensitivity and awareness around the design and implementation of human services programs. The course will help students effectively navigate ethnic, race, gender and age related issues as they relate to client service and program development. Prerequisites: HUSV 110 and HUSV 201 or HUSV 203. Minimum grade C.  
3 semester hours  
HUMAN SERVICES 305  
Strategies and Techniques of Group Interaction  
Students become aware of strategies and techniques of group interaction as they relate to behavioral outcomes. Different theoretical models will be offered and opportunities will be given to demonstrate the effectiveness of specific approaches to unique populations. Prerequisites: HUSV 110, HUSV 201 or HUSV 203 and HUSV 205 and HUSV 301.  
3 semester hours  
HUMAN SERVICES 312  
Internship in Human Services  
The internship differs from the practicum in that it emphasizes the organizational aspects of the placement, i.e. management, planning, research, etc.  
1-6 semester hours  
HUMAN SERVICES 315  
Substance Abuse and Chemical Dependency  
This course concentrates on assessment and diagnosis of substance abuse and chemical dependency as well as the different treatment modalities and methods used to help the addicted. Included in the course will be a look at the different addictions and compulsive behavior patterns including alcohol and other drug dependency, gambling, and eating disorders. Prerequisites: HUSV 110, HUSV 201 or HUSV 203. Minimum grade C.  
3 semester hours  
HUMAN SERVICES 316  
Strategies for Effective Families  
This course explores functional and dysfunctional families. Students will gain an understanding of the family system and methods of intervention and treatment for the family as well as individuals within the family.  
3 semester hours  
HUMAN SERVICES 320  
Applied Ethics for Human Services Professionals  
A general introduction to basic ethical principles as applied to human services and direct support workers across a spectrum of programs. Programs include work in hospital, community, day care, school, recreational, rehabilitation and mental health settings. Students apply ethical principles throughout the course to topics and case studies from the class text and from actual examples from their own practicum placements. Students engage in reading, discussion, writing, and individual presentations during the course. Students recognize basic ethical terminology, apply ethical models to relevant cases, and draft their own ethical decision-making model as a product of this course. Prerequisites: HUSV 201 or HUSV 203 and HUSV 205. Minimum grade C.  
3 semester hours  
HUMAN SERVICES 331  
Process of Living and Dying  
A seminar based on the premise that death and dying are closely related to life and living. This course explores the processes of death and dying, its effect on family members, cultural attitudes toward death, and various professional and paraprofessional roles available to deal with these issues.  
3 semester hours  
HUMAN SERVICES 333  
Social Policy and Administration  
This course introduces the student to the various components of social policy; formation, implementation, administration, and evaluation. Theoretical issues as well as historical factors in policy are presented. Practical problems in administration of non-profit agencies are presented and analyzed. Prerequisites: HUSV 201 or HUSV 203; and HUSV 205 and HUSV 301 and junior/senior status. Minimum grade C.  
3 semester hours  
HUMAN SERVICES 350  
Seminar in Human Services  
This seminar course is designed as a culminating experience incorporating primary readings and case studies. Students will have an opportunity to explore and discern current issues and personal interests in the human service field. Prerequisites: HUSV 201 or HUSV 203; and HUSV 205 and HUSV 301 and senior status. Minimum grade C.  
3 semester hours  
HUMAN SERVICES 351  
Social Gerontology  
This course deals with societal aspects of aging and focuses upon socio-cultural factors that contribute to patterns of aging in the USA. Topics covered include the cultural meaning of aging; the socialization process of aging; the population dimension of aging; human ecology of the aged; social stratification among the aged; deviance and crime among the aged; social power of the aged; and social change and the aged. Prerequisites: HUSV 101, HUSV 201 or HUSV 203. Minimum grade C.  
3 semester hours  
HUMAN SERVICES 389  
Seminar in Critical Issues in Contemporary Gerontology  
This course is interdisciplinary in its orientation and its purpose is to familiarize students with the rich diversity of professional literature contributing to the field of gerontology. In addition, it is designed to demonstrate the linkages between theoretical issues and practical concerns in the field of aging. The course will draw upon the knowledge and experience of a variety of scientists and practitioners who will lead discussions on selected issues to be identified by the seminar’s participants. Prerequisites: GERO 101 and 12 additional hours of gerontology course work.  
3 semester hours; upon student demand  
HUMANITIES 201  
Introduction to Humanities  
An interdisciplinary and thematic seminar that focuses on the different approaches of history,
literature, and philosophy to a common theme or text. Prerequisite: English 101.
3 semester hours

**HUMANITIES 395**
**Senior Thesis I**
The student will work closely with his or her academic advisor on a mutually acceptable project involving serious research.
3 semester hours

**HUMANITIES 399**
**Independent Study**
Requires permission of Chair and instructor. This course is open only to Gerontology majors with at least twelve hours in gerontology. Students wishing to take this course must submit a detailed description of study.
1-6 semester hours

## Integrated Studies

**INTEGRATED STUDIES C101**
**Ethical Issues in Computing**
Ethical basis for dealing with technological issues involving the computer. Context for ethical decision-making: ethical relativism, utilitarianism, deontology, virtue ethics. Software piracy, intellectual property rights, computer crime, computer viruses and worms, privacy, responsibility, liability and professional ethics. The course includes oral presentations, discussions and written papers on issues currently in the news and/or related to the topics at hand.
3 semester hours

**INTEGRATED STUDIES C101B**
**Ethical Issues in Cptg**
3 semester hours

**INTEGRATED STUDIES C101C**
**Intercultural Communication**
3 semester hours

**INTEGRATED STUDIES C101D**
**Science and Religion**
3 semester hours

## International Business

**INTERNATIONAL BUSINESS 325**
**Import/Export**
This course surveys functions and responsibilities of international traffic personnel; terms of trade; U.S. and foreign rules and regulations; documentation; methods of payment; ocean transportation; price quotations; analysis of transportation and marine insurance. Prerequisite: ECON 201, ECON 202; junior or senior status.
3 semester hours
Offered: Fall only

**INTERNATIONAL BUSINESS 362**
**International Sales (Commercial) Transactions**
This course introduces the basic issues in an international sales transaction. Based on the United Nations Convention on Contracts for the International Sale of Goods (CISG), the course examines formation of international sales contracts, transfer of title to goods, allocation of risk of loss, methods of financing the sale of goods, assurance of payment for goods, and rights and responsibilities of air and sea carriers. Prerequisite: Take BLAW 251.
3 semester hours
Offered: Spring only

**INTERNATIONAL BUSINESS 365**
**International Economic Relations**
This course is an introduction to international political economy. International political economy is the study of how and why international economic policies are formed, and how international factors influence domestic policy-making, while comparative political economy examines economic policy-making in a domestic context. The course will deal with important contemporary topics such as foreign trade, capital markets, monetary policy and exchange rates, issues in globalization, and international organizations and institutions such as NAFTA, GATT, the IMF, and the EU.
3 semester hours
Offered: Fall only

**INTERNATIONAL BUSINESS 366**
**International Business and Customs Unions**
This course traces the origins and historical development of the European Union, its institutions, business policies and special relationships with the rest of the world to create a common currency to achieve open trade in business across borders. Prerequisite: Take BLAW 251.
3 semester hours
Offered: Spring only

## International Political Economy and Diplomacy

**INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 201**
**Economics and Development**
This is an introductory course of economics from a political science perspective. Major concepts and issues in both macro and micro economics will be covered, particularly as they relate to politics.
3 semester credits

**INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 202**
**Introduction to Political Economy**
The Introduction to Political Economy reviews the ways in which politics, trade, and economics are interwoven in today’s world. The course introduces students to basic concepts and issues in political economy and examines the factors that have contributed to the evolution of political economy and to the rise and fall of competing models of political economy.
3 semester credits

**INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 208**
**Public International Law**
History and nature of international law, territorial sovereignty, natural resources and international norms (e.g., exclusive economic zones, the continental shelf, outer space, etc.), diplomatic & consular relations, International Court of Justice and other tribunals, and the use of force in international law.
3 semester credits

**INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 210**
**Global Public Health**
This course provides an overview of global public health policy with the primary focus to engage and inspire students about the opportunities and challenges of global health. This course is divided into four sections: 1. Principles, measurement, goals, and development of global health. 2. Cross-cutting themes in global health. 3. The burden and distribution of disease and mortality. 4. Global health governance and cooperation.
3 semester credits

**INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 299**
**Special Topics**
A course with variable topic focus, dependent upon student needs and the expertise of the instructor.
3 semester credits

**INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 321**
**IPED 321/PSCI 321**
**Political Economy of East Asia**
In recent decades, the East Asian region has often been described as a model of socioeconomic development, which newly developing regions should emulate. This course will encourage learners to explore the extent to which the East Asian paradigm of development is valid for other regions. This course will explore the cultural and historical factors...
International Political Economy and Diplomacy

contributing to the political and economic trajectories China, Korea, and Japan. Through studying East Asia's unique sociopolitical and economic trajectory, students should be equipped to better contextualize and assess the challenges and opportunities currently facing the Peoples Republic of China, Taiwan, Hong Kong, Japan, and the Koreans.

3 semester hours

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 329
Political Economy of China
This course is designed to help students make sense of contemporary China—its dynamic social and economic changes, its lasting political culture, its enduring struggle for modernization and democratization, and its evolving relations with the rest of the world. The focus will be on major achievements, problems, and challenges facing China today. Instructor's permission may be required for this course.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 340 (IPED 340/PSCI 333)
Political Economy of Latin America
This course will explore pre-Colombian, as well as colonial and post-colonial political and economic development in Latin America. It will pay particular attention to socio-political developments of the Cold War period as well as recent significant initiatives such as the Santiago Commitment, MERCOSUR, and NAFTA, attempting to assess their impact upon Latin America's transformation from developmentalism, to Third World politics, to an emerging center of democratic capitalism.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 341
Political Economy of Middle East
This course will familiarize the students with the patterns of economic development and the evolution of economic institutions in the Middle East and North Africa region after World War Two. To the extent that political and social institutions are relevant for understanding the region's economic development, the course will also cover these subjects selectively. For example the students will learn about how regional instability and political institutions of MENA countries have affected their ability to implement economic reforms. Another important topic that will be covered in detail is the impact of oil wealth on political and economic development of the region. The course will also familiarize the students with tools and procedures of country analysis and regional analysis and apply these tools to understanding the present conditions of the MENA countries with an eye to the future trends. The emphasis will be on analysis of the main drivers of economic growth such as the leading economic indicators, prospects for macroeconomic stability, and major risk factors that could have an adverse effect on business climate.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 345
Political Economy of EU
This course studies the origin, evolution and current development of the European Union. Focus will be on the political, economic, and social impact of EU on Europe as a whole, on individual member state, and on EU-US relations. Instructor's permission may be required for this course.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 390
Multinational Corporations in IPED
This course analyzes the role of MNCs in IPE. Topics include the nature, objectives, and decisions of MNCs in today's politics and economics, the political and economic implications of foreign direct investment, and the effects of MNCs' operations overseas on the political economy of the host country and the home country such as issues of outsourcing and insourcing. Instructor's permission may be required for this course. Prerequisite: Political Science 103 or Economics 201 or IPED 202.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 391
Sustainable Development
This course concentrates on the relatively new concept of sustainable development in international political economy. Topics include, but are not limited to, pollution and pollution control, environmental protection, education and occupational training, infrastructure, legal system, political and economic reform, productivity, human resources, and linkages to the outside world. Instructor's permission may be required for this course.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 392
The Geopolitics of Oil
Due to its critical importance in world economy, petroleum has assumed a significant role in the maintenance of a stable international political, economic, and security order. This course examines the international political economy associated with the exploration, production, trading, and consumption of petroleum. It focuses on how petroleum influences global and regional politics and economics in an interdependent world. Instructor's permission may be required for this course.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 393
Independent Study: International Service Issues
IPED 393 serves as the independent study designation for students participating in the University of Bridgeport Peace Corps Prep program. In collaboration with the UB Peace Corps Prep Coordinator, students may design an independent study including readings and assignments designed to enhance their understanding of a topic of relevance to international service careers.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 394
Peace Corps Prep Community Service
This is the community service component of the University of Bridgeport Peace Corps Preparatory Program. To receive credit from the course, each student must complete no fewer than 100 recorded service hours in a position that helps prepare her/him for service in the United States Peace Corps and/or an international service career. Such relevant fields include international education, community development, sustainable development, and public health. “Includes 50 hours of Community Service”

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 395
Senior Thesis Seminar
This is the advanced senior thesis seminar required course for all IPED majors. During this course, each student will design a research plan and complete writing an thesis on political economy and related fields of research under the supervision of a faculty thesis advisor.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 396
Seminar on IPED
This is an advanced research seminar for IPED majors. It focuses on IPE research methods and senior thesis writing. Instructor's permission may be required for this course.

3 semester credits

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 397
Seminar in Public & International Service
This is a course designed to prepare upper level undergraduates for careers in international service. The course will introduce students to career opportunities available in international nonprofits, government agencies, international
organizations and multinational corporations. It will also provide students with practical skills associated with successfully securing meaningful employment after graduation, with issues covered including the job search, networking, internships, volunteering, mentoring and networking. During the semester, professionals from an array of international service career tracks will speak to students about their personal experiences and recommendations. In addition, students will read and discuss works of literature that relate to life and work abroad in foreign locations, and the personal benefits and learning associated with such experiences.

3 semester hours

INTERNATIONAL POLITICAL ECONOMY AND DIPLOMACY 398
Internship
Professional, supervised, unpaid work in an organization related to career goals. Prerequisite: Permission of advisor and School Director. 1-6 semester hours

Japanese

JAPANESE 101
Elementary Japanese I
In this course students are introduced to the Japanese language and culture. Basic skills in speaking, listening, reading, and writing are developed. Cultural readings and videos are included in each lesson giving the students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. This is a course for students with little or no knowledge of Japanese language.

3 semester hours

JAPANESE 102
Elementary Japanese II
This course builds on the foundations laid in Japanese 101 and continues to introduce students to Japanese language and culture. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving the students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course students are expected to reach an intermediate level of Japanese language proficiency and should be able to understand/identify a range of vocabulary items and topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: Japanese 101.

3 semester hours

JAPANESE 103
Intermediate Japanese I
This course builds on the foundations laid in Japanese 101 and Japanese 102 and provides an opportunity to improve Japanese language proficiency beyond the beginner level. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Japanese language proficiency and should be able to understand/identify a range of vocabulary items and topics; engage in a conversation in a target language on a range of topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: Japanese 102.

3 semester hours

JAPANESE 104
Intermediate Japanese II
This course builds on the foundations laid in Japanese 103. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Japanese language proficiency and should be able to understand/identify a range of vocabulary items and topics; engage in a conversation in a target language on a range of topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: Japanese 103.

3 semester hours

Korean

KOREAN 101
Elementary Korean I
In this course students are introduced to the Korean language and culture. Basic skills in speaking, listening, reading, and writing are developed. Cultural readings and videos are included in each lesson giving the students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. This is a course for students with little or no knowledge of Korean language.

3 semester hours

KOREAN 102
Elementary Korean II
This course builds on the foundations laid in Korean 101 and continues to introduce students to Korean language and culture. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course students are expected to reach a beginner level of Korean language proficiency and should be able to understand/identify familiar vocabulary and conversation topics; engage in a conversation in a target language on a familiar topic; express opinions/feelings about a familiar topic; read and comprehend short simple texts; write short simple sentences. Prerequisite: Japanese 101.

3 semester hours

KOREAN 103
Intermediate Korean I
This course builds on the foundations laid in Korean 101 and Korean 102 and provides an opportunity to improve Korean language proficiency beyond the beginner level. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Korean language proficiency and should be able to understand/identify familiar vocabulary and conversation topics; engage in a conversation in a target language on a familiar topic; express opinions/feelings about a familiar topic; read and comprehend short simple texts; write short simple sentences. Prerequisite: Korean 101.

3 semester hours

KOREAN 104
Intermediate Korean II
This course builds on the foundations laid in Korean 103. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Korean language proficiency and should be able to understand/identify a range of vocabulary items and topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: Korean 103.

3 semester hours

Law

LAW 251
Business Law I
Court systems, sources of law in the United States, the constitutional basis of the legal sys-
### Management and Industrial Relations

#### MANAGEMENT 200

**Workforce Dynamics**

This course is designed to introduce students to the management process as well as concepts and practices relevant to understanding workforce dynamics. Organizational behavior is examined on a conceptual level to enhance understanding of workforce needs, challenges, trends, and processes. An exploration of personal and professional development is also facilitated, with an emphasis on employer expectations and an opportunity to hone individual skill sets. Prerequisite: take BUAD 111.

3 semester hours  
Offered: Spring/Fall only

#### MANAGEMENT 300

**Interpersonal and Group Behavior in Organizations**

The student is introduced to behavior in organizations on interpersonal, group and intergroup levels. Group process is examined on both conceptual and experiential levels to enhance understanding of interpersonal and group processes, as well as to test and hone individual interpersonal and group participation skill. Theories of Social Psychology and Group Sociology are examined and applied. Prerequisite: junior status.

3 semester hours  
Offered: Spring Only

#### MANAGEMENT 305

**Human Resource Issues in Management**

The student is introduced to current theory, research and practice in the management of human resources in organizations. Job design, recruitment, selection, performance feedback, goal setting, training, employee rights, safety, compensation and benefits issues are reviewed within the context of their application in the US as a world standard for such practices, with comparisons to customs and practices in the international arena. Prerequisite: MGMT-302 OR PRST-300 OR PRST-201; Minimum grade C.

3 semester hours  
Offered: Spring/Fall only

#### MANAGEMENT 311

**Comp and Benefit Administration**

Students in this course will examine the major foundation programs and skills that under grid the current practice of Human Resource Management. Theory and method used in the design of compensation systems is explored, interviewing method and skill as applied to data gathering for problem solving or personnel selection, surveys for compensation benchmarking or employee attitude measurement, and development of performance feedback and goal setting (MBO) programs are intensively reviewed. Prerequisite: MGMT 302 or MGMT-305.

3 semester hours  
Offered: Fall only

#### MANAGEMENT 320

**Business Planning**

For starting or buying a new business, it is critical to develop practical business plans, obtain financing, develop a marketing plan, project cash flow, organize the business, and develop financial controls to take advantage of opportunities in both domestic and international markets. Works is done in teams and computer analysis is used. Prerequisite: Accounting 102, Marketing 305, and Management 302.

3 semester hours  
Offered: Spring/Fall only

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### Literature and Civilization

#### HUMANITIES C201

**The American Dreamer**

An interdisciplinary course which employs history, literature and philosophy to examine and explain the cultures and values of a civilization over time and place. Works studied include primary historical and philosophical texts, as well as literary and artistic creations. Currently, the course looks at the civilization of the United States, focusing on the "American Dream," its origins, growth and significance. This is a Core Heritage Course. Prerequisite: English C101 or department permission.

3 semester hours

#### HUMANITIES 300

**Seminar**

An interdisciplinary and thematic seminar that focuses on the different approaches of history, literature, and philosophy to a common theme or text.

3 semester hours

#### HUMANITIES 395

**Thesis**

The student will work closely with his or her academic advisor on a mutually acceptable project involving serious research.

3 semester hours
MANAGEMENT 321
International Entrepreneurship
This course examines the unique opportunities and difficulties facing entrepreneurs in an international environment. It examines entrepreneurs in various stages of development at decision points in their business: launch, fund, manage, grow, enter new markets, go public, exit events.
3 semester hours

MANAGEMENT 330
Leadership Lessons from the Movies
In this course students watch a variety of movies to examine the dynamics of leadership. Organizations and work units rise and fall based on leadership. Leaders must influence other people to accomplish organizational goals in a way that often entails self-sacrifice and living for the sake of others. Prerequisite: MGMT-302.
3 semester hours
Offered: Spring/Summer/Fall

MANAGEMENT 340
Conflict and Negotiation
The development of conflict-management and negotiating skills with particular emphasis on achieving effective and efficient outcomes within a global and multi-cultural context. Experiential exercises, readings and discussions will demonstrate various strategies for a broad range of negotiating scenarios, e.g., buyer-seller, management-labor, personal salary increase, cross-national, etc. Prerequisite: MGMT-305 or PRST-201; Minimum grade C.
3 semester hours
Offered: Fall only

MANAGEMENT 342
Labor Law and Arbitration
Modern labor legislation and its practical impact on present relations between labor and management. Increasing role of government through federal statutes and agencies. Historical background, principles, procedures and judicial aspects of arbitration process. Nature and function of arbitration; powers of arbitrator; and arbitration cases. Prerequisite: Take MGMT-302 or MGMT-305 or PRST-201.
3 semester hours
Offered: Spring only

MANAGEMENT 348
Project Management
Prerequisite: MGMT-302.
3 semester hours

MANAGEMENT 350
Business Policy and Strategy
A study of decision-making including integrating analyses and policy determination at the overall management level. Students search for new knowledge and solutions to long and short term problems and opportunities in specific businesses. The coordination, integration and innovative application of theory and methods learned in previous courses are the tools of research. Accordingly, the final examination of each course shall constitute, therefore, an outcome assessment of what the student has learned in the program. This examination, normally an extensive and comprehensive case study, will be graded by several faculty members representing different and relevant disciplines. Prerequisite: Senior status.
3 semester hours
Offered: Spring/Summer/Fall

The following courses are suggested for those students who wish to take elective courses in other disciplines which are related to or useful in the practice of management:
Communication in Industry.
—See MCOMM 385.
Industrial Psychology.
—See PSYC 309.
Social Psychology.
—See PSYC 305.
Tests and Measurements.
—See PSYC 523.

Marketing

MARKETING 205
Principles of Marketing
3 semester hours
Offered: Spring/Fall only

MARKETING 305
Principles of Marketing
The scope and significance of marketing. The retailing and wholesaling of consumer goods. Marketing agricultural and industrial goods. Marketing policies and practices of business firms. Prerequisite: take 30 credits.
3 semester hours

MARKETING 306
Digital Consumer Behavior
A qualitative analysis of marketing as a system for the satisfaction of human wants. The contribution of psychologists, sociologists, anthropologists, and other behavioral scientists to the understanding of consumer behavior. Such topics as motivation, learning, life-cycle and social-class analysis, culture and custom. Prerequisite: MKTG 305.
3 semester hours
Offered: Spring only

MARKETING 307
Marketing of Promotion
Advertising, personal selling, trade support, and public relations as elements of strategy. Situation analysis planning, execution, and evaluation of promotional campaigns. Social responsibilities of the firm and some of its ethical problems. The impact of consumerism. Prerequisite: MKTG 305.
3 semester hours
Offered: Spring only

MARKETING 308
Marketing Research
Objectives, techniques, and limitations of library and field research applied to advertising, retailing, or sales management problems. Assignment of group projects requiring considerable initiative and resourcefulness. Measurements of individual accomplishment by both group activity and individual evaluation of the project. Prerequisite: MKTG 305.
3 semester hours
Offered: Fall only

MARKETING 309
Digital Marketing
New and developing digital technologies have impacted many basic platforms for which today’s organizations operate and function. This course will focus on how businesses can develop, incorporate and leverage digital marketing into their overall marketing strategies. Additionally this course will investigate current e-commerce and mobile commerce trends. Prerequisite: MKTG 205.
3 semester hours

MARKETING 319
Integrated Marketing Communications
This course covers various methods of integrated marketing communications, with the focus on planning and execution of IMC programs. Case studies on award-winning examples of personalized and experiential marketing. Takes the perspective of the account executive or “client” side of business rather than the “creative” side. Prerequisite: MKTG 305.
3 semester hours
Offered: Spring only
MARKETING 325
Sales Management
Management of manufacturer’s salesmen. Sales department organization. Selecting, training, compensating, and supervising salesmen. Sales territories, travel expenses, quotas, and budgets. Principles are applied to concrete problems. Prerequisite: MKTG 305.
3 semester hours
Offered: Fall only

MARKETING 342
Multinational Marketing
Lecture and case studies, exploring cultural, political, economic and legal aspects of the development and operation of companies marketing overseas. Planning, organizing, controlling, and promoting for industrial and consumer goods. Prerequisite: MKTG 205.
3 semester hours
Offered: Spring/Fall only

MARKETING 348
Internet and Social Media Marketing
Prerequisite: MKTG 205.
3 semester hours

MARKETING 350
Marketing Management
The nature and scope of marketing management. The interpretation of environmental factors affecting marketing decisions and application of managerial concepts to marketing strategy. Adaptation of resources and objectives in the development of marketing plans. Prerequisite: MKTG 305.
3 semester hours
Offered: Fall only

Marketing • Martial Arts Studies

MARTIAL ARTS STUDIES 110
Taekwondo (Beginner)
This is an introduction to Taekwondo, commencing with instructions in essential classroom etiquette and training rules. Through this course, students are expected to achieve mastery of Taekwondo forms Taegeuk No. 1 & 2 as well as white belt Hammer Fist and Axe kick breaking techniques, and yellow belt Palm Fist and Front Snap kick breaking techniques.
2 semester hours

MARTIAL ARTS STUDIES 110A
Taekwondo I/II
Prerequisite/Corequisite: MARTS 110
1 semester hour

MARTIAL ARTS STUDIES 111
Taekwondo Practicum 2
This level of Taekwondo training focuses on the adaptation of the body to martial art training. Through this course, students are expected to achieve mastery of Taekwondo forms Taegeuk No. 3 & 4, self defense techniques No. 3 & 4, kicking techniques with a focus on the Roundhouse kick and Side kick, sparring techniques with a focus on orange belt Elbow strike and Roundhouse kick breaking techniques and green belt Straight punch and Side kick breaking techniques.
1 semester hour

MARTIAL ARTS STUDIES 112
Taekwondo Practicum 3
This course focuses on enhancing the student’s ability to maintain and increase physical balance. Through this course, students are expected to achieve mastery of Taekwondo forms Taegeuk No. 5 & 6 (20 motions No. 5 & 23 motions No. 6, guiding themes “wind & flowing like water”), self defense techniques No. 5 & 6, kicking techniques with a focus on the Back kick and Hook kick, sparring techniques with a focus on the Back kick and Hook kick, sparring techniques with a focus on basic sparring, blue belt Back fist and Back kick breaking techniques and brown belt Knife hand and Hook kick breaking techniques.
1 semester hour

MARTIAL ARTS STUDIES 113
Taiji & Qi-gong
Prerequisite/Corequisite: MARTS 121.
1 semester hour

MARTIAL ARTS STUDIES 114
Taekwondo Practicum 4
This Taekwondo class will focus on enhancing concentration skills. Through this course, students are expected to achieve mastery of Taekwondo form Taegeuk No. 7, self defense technique No. 7, kicking techniques with a focus on the Back Spin Hook kick, sparring techniques with a focus on basic sparring, breaking techniques of Half Knuckle punch and Back Spin Hook kick. At the completion of this course, there will be a 1st degree black belt test for participating students.
1 semester hour

MARTIAL ARTS STUDIES 115
Taiji (I/II)
This course introduces the student to Martial Arts of Taiji including the performance of the first part of the Yang Style short form. It includes an introduction to Taiji principles, and will work to expand the student’s range of motion, coordination, and introduce students to Qigong level 1 training on exercises one to five. It will introduce and compare the major Taiji styles and note how they differ from each other. Fighting applications of Taiji (as well as the health applications) will be presented. The concepts of flexibility and range of motion are introduced as tools to explain Taiji’s principles. Practicum 1 will also introduce physical principles of head suspended; the pelvis tucked in with toe in and knee out; relaxed execution of smooth movements; exercises for overall coordination of the body and the mind-body connection. This practicum presents the first 16 movements of the Yang Style Short Form. Students will learn to demonstrate the 16 movements and begin to incorporate the physical principles into the 16 Taiji movements. Students will learn the horse stance and bow stance and be introduced to the role that they play in Taiji movements. Emphasis is on slow and relaxed movement of the body as a single coordinated unit.
2 semester hours

MARTIAL ARTS STUDIES 121A
Taiji & Qi-gong
Prerequisite/Corequisite: MARTS 121.
1 semester hour

MARTIAL ARTS STUDIES 122
Taiji Practicum 2
This course will include form correction of the first part of the Yang Style Short Form, further analysis of Taiji principles and a detailed application and study of the meaning of Taiji movements. Form correction incorporates the concept of qi into movement and into the execution of the form. The focus is on correctly executing the first 16 moves while observing Taiji’s physical principles. This course will include body strengthening and alignment using Qigong training on exercises six to twelve. It also introduces the physical principles of the seesaw movement and the concave chest. Additional instruction is provided to strengthen the body to maintain proper alignment and balance throughout the form. Form correction further seeks to eliminate the reinforcement of poor execution caused by repeating incorrect form movements in the early stages of Taiji training. Taiji 2 expands basic Qigong training by introducing Qigong exercises to promote alignment and strength. Prerequisite: Marts 121 or Instructor’s Approval based on Testing.
1 semester hour

MARTIAL ARTS STUDIES 123
Taiji Practicum 3
This course will introduce students to the second part of the Yang Style Short Form. Students will learn to incorporate Taiji principles into the form. At this stage, greater emphasis
Martial Arts Studies

will be placed on integrated body movement and mind power (concentration) to move the body as a single unit and will include Qigong training level 3 on the entire set of exercises one to twelve.

Taiji 3 reinforces the understanding of the physical principles (head suspended; pelvis tucked in with toe in and knee out; chest concave; body rounded; shoulders lowered; waist loose; 'qua' loose; and deep breathing). It introduces the skills required to incorporate the principles into Taiji learning and practice. The concepts of flexibility and range of motion are presented for discussion and written assignments. Research methods will be introduced to permit independent gathering of Taiji information for study and personal growth. Taiji 3 also presents Qigong training, continuing to prepare students physically for proper Taiji execution. Qigong exercises are more strenuous and are aimed at greater flexibility with longer strength-training periods.

Prerequisite: Marts 122 or Instructor's Approval based on Testing.

1 semester hour

MARTIAL ARTS STUDIES 124
Taiji Practicum 4
This course will introduce the third part of the Yang Style Short Form. It will incorporate breathing techniques into the form and will introduce the concept of form assessment for the incorporation and execution of Taiji principles. It will build on earlier training to begin to introduce the martial arts applications of Taiji in preparation for push hands classes and Qigong training level 4 on the entire set (exercises one to twelve). This course will begin to prepare students to assume leadership roles in higher levels of study. Taiji 4 reviews Taiji's principles and communicates how the Taiji form performance is assessed based on the principles. Both the self-defense aspects and the self-cultivation aspects (of body, mind & spirit) of the Yang Style Short Form will be presented. The class will stress ongoing individual Taiji training and students will be encouraged to develop individual Taiji training formats. This class also presents training and information required to lead Qigong classes on the entire set of twelve exercises. Prerequisite: Marts 123 or Instructor's Approval based on Testing.

1 semester hour

MARTIAL ARTS STUDIES 125
Taiji Sword
3 semester hours

MARTIAL ARTS STUDIES 131
Judo
2 semester hours

MARTIAL ARTS STUDIES 131A
Judo
Prerequisite/Corequisite: MARTS 131. 1 semester hour

MARTIAL ARTS STUDIES 133
Kumdo
2 semester hours

MARTIAL ARTS STUDIES 133
Kumdo
Prerequisite/Corequisite: MARTS 133. 1 semester hour

MARTIAL ARTS STUDIES 141
Tongil MooDo
2 semester hours

MARTIAL ARTS STUDIES 212
The History of Martial Arts
This course traces the origins, growth and diversification of the Martial Arts in China, Korea and Japan. Emphasis is placed on the evidence of primary historical texts, including the Five Classics of pre-Qin China as well as early histories of Korea and Japan such as the Samguk Yusa and the Kojiki. The historical information gleaned from these sources is compared to the narratives and mythologies passed down through the written and oral traditions of the various schools. We examine the unfolding of the Shaolin Gongfu schools influenced by Chan as well as the Wu dang tradition influenced by Daoism, the emergence of Martial Arts in the Hwarang movement of the Korean Silla kingdom and their revival after the Japanese occupation, and the transformation of Gongfu traditions in Japan via Okinawa.

3 semester hours

MARTIAL ARTS STUDIES 213
Martial Arts and East Asian Thought
This course examines the impact of East Asian philosophy and religion on the Martial Arts. The course begins by outlining the major teachings of Buddhism, Daoism, and to a lesser extent, Confucianism, focusing on key classics. Following this we will explore the ways in which these teachings came to influence what was originally a martial tradition, resulting in a variety of complex systems that placed greater emphasis on mental as well as physical powers, self-cultivation and personal fulfillment.

3 semester hours

MARTIAL ARTS STUDIES 214
Daoism and Taiji
This course will examine both the historical and conceptual relationship between Daoism and Taiji. It will examine ways in which key concepts of Daoism are reflected in Taiji practice. In the study of the history of the relationship between Daoism and Taiji, we will note the differences between the received tradition of this relationship (as transmitted from master to student in the pedagogical process) versus historical documentation that, through primary sources, independently confirms the longstanding ties between the two. In the review of the linkage between Daoism and Taiji we will focus on the cosmology of the Book of Changes, which informs the conceptual framework of Taiji, as well as influential Daoist concepts such as Wu Wei (No Action), Yin and Yang and passive values as depicted in the Laozi, Zhuangzi, the Book of Changes, and the Taji Quan Treatise.

3 semester hours

MARTIAL ARTS STUDIES 235
Issues in Taekwondo
This course invites students to consider the challenges faced by Taekwondo at this stage in its history. Through selected readings and class discussions students will consider such pertinent issues as the perception of Taekwondo as an overly aggressive sport or as an unregulated industry, far removed from the ideals of its progenitors. Discussion will also consider ways in which Taekwondo has been transformed through its assimilation into academia and into non-Korean society. Participants will consider the impact that Taekwondo has had on youth in the United States and will examine whether and how it might make a positive contribution towards the problems that they face.

3 semester hours

MARTIAL ARTS STUDIES 241
Taekwondo Practicum 5
This level of Taekwondo training focuses on the cultivation of self-control. Through this course, students are expected to achieve mastery of Taekwondo forms Go-Ryo & Pal-Gae No. 1, intermediate self defense techniques No. 1 & 2, kicking technique and board breaking with a focus on the Jump Axe kick and Jump Front kick, sparring techniques with a focus on Olympic style sparring offense combination skills, 1st degree black belt (level 7) Jump Axe kick breaking techniques and 1st degree black belt level 6 belt Jump Front kick
Martial Arts Studies

breaking techniques.  
1 semester hour
MARTIAL ARTS STUDIES 242
Taekwondo Practicum 6
This level of Taekwondo training focuses on the cultivation of self-confidence. Through this course, students are expected to achieve mastery of Taekwondo forms Pal-Gae No. 2 & 3, intermediate self defense techniques No. 3 & 4, kicking techniques with a focus on the Jump Roundhouse kick and Jump Side kick, sparring techniques with a focus on Olympic style sparring defense combination skills, 1st degree black belt level 5 Jump Roundhouse kick breaking techniques and 1st degree black belt level 4 belt Jump Side kick breaking techniques.  
1 semester hour
MARTIAL ARTS STUDIES 243
Taekwondo Practicum 7
This level of Taekwondo training focuses on the cultivation of patience and endurance. Through this course, students are expected to achieve mastery of Taekwondo forms Pal-Gae No. 4 & 5, intermediate self defense techniques No. 5 & 6, kicking technique with a focus on the Jump Back kick and Jump Hook kick, sparring techniques with a focus on Olympic style sparring offense and defense combination skills, 1st degree black belt level 3 Jump Back kick breaking techniques and 1st degree black belt level 2 belt Jump Hook kick breaking techniques.  
1 semester hour
MARTIAL ARTS STUDIES 244
Taekwondo Practicum 8
This level of Taekwondo training focuses on the cultivation of self-esteem as well as self-control. Through this course, students are expected to achieve mastery of Taekwondo forms Pal-Gae No. 6 (guiding theme “water”), intermediate self defense technique No. 7, kicking techniques with a focus on the Jump Back Spinning Hook kick, sparring techniques with a focus on Olympic style sparring offense and defense combination techniques and hand combination techniques, 1st degree black belt level 1 breaking Jump Back Spinning Hook kick techniques. After this level is completed, there will be the 2nd degree black belt test including a Martial Arts Essay test.  
2 semester hours
MARTIAL ARTS STUDIES 244A
Taekwondo Practicum 8
Prerequisite/Corequisite: MARTS 244.  
1 semester hour
MARTIAL ARTS STUDIES 251
Taiji Practicum 5
Practicum 5 introduces the ways in which beginning fighting techniques rely on movement from the Short Form. The intermediate practica (practica 5-8) are meant to provide a comprehensive grasp of the self-defense and martial arts aspects of Taiji through the acquisition of specific techniques and training. Systematic training is divided into 4 levels designed to educate students in basic self-defense techniques and internal strength training up to the competitive Martial Artist level. Practicum 5 emphasizes coordination and flexibility. In Practicum 5 students begin the practice of the push hands and are introduced to the fast form that consists of set routines of defense, repositioning, attacks, movements and strikes. Prerequisite: MARTS 124 or Instructor's Approval based on Testing.  
1 semester hour
MARTIAL ARTS STUDIES 252
Taiji Practicum 6
Practicum 6 dedicates special attention to the philosophy and practice of Qi Gong for the purpose of cultivating qi and improving self defense and short form skills. Self-defense on this level includes the study of yielding and sticking to neutralize an attacker's strength and skills. The intermediate practica provide a comprehensive grasp of the self-defense and martial arts aspects of Taiji through the acquisition of specific techniques and training. Systematic training is divided into 4 levels designed to educate students in basic self-defense techniques and internal strength training up to the competitive Martial Artist level. Practicum 6 also emphasizes correction and improvement of the Short Form. Prerequisite: MARTS 251 or Instructor’s Approval based on Testing.  
1 semester hour
MARTIAL ARTS STUDIES 253
Taiji Practicum 7
Practicum 7 focuses on the application of the short form for self defense and it also emphasizes continued Short Form improvement. The intermediate practica (5-8) provide a comprehensive grasp of the self-defense and martial arts aspects of Taiji through the acquisition of specific techniques and training. Systematic training on this level is meant to to help to prepare with the basic self-defense techniques and internal strength training needed to begin to compete on the level of a Taiji Martial Artist. Prerequisite: MARTS 252 or Instructor’s Approval based on Testing.  
1 semester hour
MARTIAL ARTS STUDIES 254
Taiji Practicum 8
Practicum 8 is meant to complete students' training in basic self-defense techniques and internal strength training to the level needed to be a Martial Artist who can participate in Taiji competitions. Practicum 8 focuses on Punching & kicking techniques, footwork and endurance training. It also emphasizes correction and preparation of the Short Form for demonstration. In preparing students for graduation, Practicum 8 provides a comprehensive review of the Taiji topics and techniques introduced in earlier practica. Prerequisite: MARTS 253 or Instructor's Approval based on Testing.  
1 semester hour
MARTIAL ARTS STUDIES 255
Taiji Practicum 9
Practicum 9 focuses on preparation for the intermediate self defense techniques and skills. The intermediate practica provide a comprehensive grasp of the self-defense and martial arts aspects of Taiji through the acquisition of specific techniques and training. Systematic training is divided into 4 levels designed to educate students in basic self-defense techniques and internal strength training up to the competitive Martial Artist level. Practicum 9 also emphasizes correction and improvement of the Short Form. Prerequisite: MARTS 251 or Instructor’s Approval based on Testing.  
1 semester hour
MARTIAL ARTS STUDIES 256
Taiji Practicum 10
Practicum 10 focuses on preparation for the advanced self defense techniques and skills. The advanced practica provide a comprehensive grasp of the self-defense and martial arts aspects of Taiji through the acquisition of specific techniques and training. Systematic training is divided into 4 levels designed to educate students in basic self-defense techniques and internal strength training up to the competitive Martial Artist level. Practicum 10 also emphasizes correction and improvement of the Short Form. Prerequisite: MARTS 251 or Instructor’s Approval based on Testing.  
1 semester hour
MARTIAL ARTS STUDIES 278
Survey of the Martial Arts
This course introduces the theoretical foundations of a variety of Martial Arts, including Taiji, Gongfu, Taekwondo, Hapkido, Karate, Judo, and Jujitsu. Through video, demonstrations, and other modalities students will also be exposed to the major techniques used in each of the Martial Arts introduced.  
3 semester hours
MARTIAL ARTS STUDIES 299
Meditation/Yoga
2 semester hours
MARTIAL ARTS STUDIES 299A
Meditation/Yoga
Prerequisite/Corequisite: MARTS 299.  
1 semester hour
Martial Arts Studies

MARTIAL ARTS STUDIES 300
Martial Arts Research Methods
An introduction to the methods of research and criticism employed in history, economics, anthropology, sociology, psychology, and political science. Social Sciences majors will gain experience in both statistical and interpretive methods that will be useful for their senior thesis. PC access required. Prerequisite: 60 credits.
3 semester hours

MARTIAL ARTS STUDIES 310
Olympic Sparring Training
2 semester hours

MARTIAL ARTS STUDIES 311
Communication and Martial Arts
This course is designed to introduce Martial Arts Studies students to the concepts and practices of intercultural communication. Topics will include Martial Arts and non-verbal communication, Martial Arts and verbal communication, the influence of culture on communication and intercultural conflict resolution. The course will be conducted in the context of the martial artist as a leader and as a communicator. The martial artist will be viewed as a communicator both in the role of instructor and in the role of manager.
3 semester hours

MARTIAL ARTS STUDIES 312
Image and Reality in the Martial Arts
This course explores popular concepts about the Martial Arts as depicted in modern media, particularly cinema and television, and contrasts them with historical and literary perspectives drawn from East Asian classics and Martial Arts texts.
3 semester hours

MARTIAL ARTS STUDIES 319
Taekwondo Practicum 9
This level of Taekwondo training focuses on enhancing team spirit and cooperation. Through this course, students are expected to achieve mastery of Taekwondo form Keumkang (guiding theme “wisdom and virtuosity”), advanced self defense techniques No. 1 & 2, kicking technique with a focus on the Double Front kick and Double Roundhouse kick, sparring techniques with a focus on Olympic style offense strategy skills, 2nd degree black belt level 7 Double Front kick breaking techniques and 2nd degree black belt level 6 belt Double Roundhouse kick breaking techniques. Beginning with the achievement of the 2nd degree black belt, students are qualified to serve as teaching assistants.
1 semester hour

MARTIAL ARTS STUDIES 320
Taekwondo Practicum 10
This level of Taekwondo training focuses on cultivating the sense of personal achievement. Through this course, students are expected to achieve mastery of Taekwondo form Taebak (guiding theme “human and nature”), advanced self defense techniques No. 3 & 4, kicking technique with a focus on the Double Side kick and Double Back kick, sparring techniques with a focus on Olympic style defense strategy skills, 2nd degree black belt level 5 Double Side kick breaking techniques and 2nd degree black belt level 4 belt Double Back kick breaking techniques. Students in this class are qualified to serve as teaching assistants.
1 semester hour

MARTIAL ARTS STUDIES 321
Taekwondo Practicum 11
This level of Taekwondo training focuses on cultivating dedication to goals and ideals. Through this course, students are expected to achieve mastery of Taekwondo form Sipjin (guiding theme “nature’s 10 ideas”), advanced self defense techniques No. 5 & 6, kicking technique with a focus on the Double Hook kick and Double Back Hook kick, sparring techniques with a focus on Olympic style offense and defense strategy skills, 2nd degree black belt level 3 Double Hook kick breaking techniques and 2nd degree black belt level 2 belt Double Back Hook kick breaking techniques. Students in this class are qualified to serve as teaching assistants.
1 semester hour

MARTIAL ARTS STUDIES 322
Taekwondo Practicum 12
This level of Taekwondo training focuses on cultivating humility. Through this course, students are expected to achieve mastery of Taekwondo form Keumkang (guiding theme “wisdom and virtuosity”), advanced self defense techniques No. 7, kicking technique with a focus on the Tornado kick, sparring techniques with a focus on Olympic style psychological strategy skills, 2nd degree black belt level 1 breaking techniques of Tornado kick. After this level is completed, there will be the 3rd degree black belt test including a Martial Arts Essay test. Students in this class are qualified to serve as teaching assistants.
1 semester hour

MARTIAL ARTS STUDIES 323
Taekwondo Practicum 13
This level of Taekwondo training focuses on enhancing the sense of magnanimity and service to others. Through this course, students are expected to achieve mastery of Taekwondo form Jitae (guiding theme “human and nature”), high advanced self defense techniques No. 1 & 2, kicking techniques with a focus on the Jump Point kick and Jump Scissor kick, sparring techniques with a focus on free style defense sparring. 3rd degree black belt level 7 Jump Point kick breaking techniques and 3rd degree black belt level 6 belt Jump Scissor kick breaking techniques. Students in this class are qualified to serve as teaching assistants.
1 semester hour

MARTIAL ARTS STUDIES 324
Taekwondo Practicum 14
This level of Taekwondo training focuses on cultivating social and leadership skills. Through this course, students are expected to achieve mastery of Taekwondo form Cheonkwon (guiding theme “universal”), high advanced self defense techniques No. 3 & 4, kicking technique with a focus on the Jump Split Front kick & Jump 360º Back Kick, sparring techniques with a focus on free style offense sparring. 3rd degree black belt level 5 Jump Split Front kick breaking techniques and 3rd degree black belt level 4 belt Jump 360º Back kick breaking techniques. Students in this class are qualified to serve as teaching assistants.
1 semester hour

MARTIAL ARTS STUDIES 325
Taekwondo Practicum 15
This level of Taekwondo training focuses on the cultivation of ethical thinking. Through this course, students are expected to achieve mastery of Taekwondo form Hansoo (guiding theme “water”), high advanced self defense techniques No. 5 & 6, kicking technique with a focus on the Jump Triple Front kick & Jump Triple Roundhouse kick, sparring techniques with a focus on free style offense/defense combination sparring. 3rd degree black belt level 3 Jump Triple Front kick breaking techniques and 3rd degree black belt level 2 belt Jump Triple Roundhouse kick breaking techniques. Students in this class are qualified to serve as teaching assistants.
1 semester hour
MARTIAL ARTS STUDIES 326
Taekwondo Practicum 16
This level of Taekwondo training focuses on consolidating the various aspects of self-cultivation. Through this course, students are expected to achieve mastery of Taekwondo form Ilyo (guiding theme “mind/body unity”), high advanced self-defense techniques No. 7, kicking technique with a focus on the Creative kick, sparring techniques with a focus on the meaning of sparring, 3rd degree black belt level 1 Creative kick breaking techniques. Upon the completion of this level, students will have the 4th degree black belt test including both a practical test and a written examination. Students in this class are qualified to serve as teaching assistants.

1 semester hours

MARTIAL ARTS STUDIES 395
Senior Thesis or Presentation
The senior thesis or a creative presentation based on the Martial Arts emphasizes research and research methods. This course may only be taken after having completed 90 semester hours or more in the program. If a student elects to write a thesis, his/her work will be expected to demonstrate a theoretical understanding of the Martial Arts (e.g., technical, philosophical, and historical) and their relationship with the broader cultural, philosophical, and social context in which they evolved. Independent research and creative thinking will be emphasized as well as the ability to gather and conduct research and formulate a position in a critical and analytical manner.

Students choosing to do a presentation based on their Martial Arts skills would normally do so both to demonstrate their technical mastery of the Martial Arts as well as their creativity. The senior presentation might consist of projects such as the creation and performance of a new form or the adaptation of a Martial Arts form to music or to poetry. The presentation should show ways in which the Martial Arts contribute to a broader socio-cultural context.

3 semester hours

MARTIAL ARTS STUDIES 399
Independent Study
1-3 semester hours

Mass Communication

MASS COMMUNICATION 110
Public Communication
The process and variables of everyday public speaking are examined through situations, content, presentation strategies and effects, and by classroom practice in the basic principles of oral communication.
3 semester hours

MASS COMMUNICATION 111
Introduction to Mass Communication
The role and function of the mass media. Survey of traditional and digital media. Criticism, challenges and professional opportunities.
3 semester hours

MASS COMMUNICATION 201
Persuasive Communication
Study of communication as a form of influence; the process and functions involved, its potential and limitations; social and personality factors related to persuasion, attitude formation and change. Students will analyze and present persuasive messages.
3 semester hours

MASS COMMUNICATION 205
Interpersonal Communication
An introductory survey of interpersonal communication theories and their application to face-to-face, group, organizational and mediated contexts. The classroom becomes a laboratory for gaining knowledge of the processes of communication, perception, language and meaning.
3 semester hours

MASS COMMUNICATION 211
Communication Theory
An examination of communication theories which includes theories on verbal communication, nonverbal communication, interpersonal communication, self-concept, relationship development, influence, conflict, group communication, decision-making, gender communication, organizational communication, intercultural communication, and media communication.
3 semester hours

MASS COMMUNICATION 218
Media Aesthetics
The artistic philosophy and practical applica-
Mass Communication

3 semester hours

MASS COMMUNICATION 252
Introduction to Web Publishing
A comprehensive overview in planning, organizing and creating a web site. The course features emphasis on creative and communications imperatives in web page creation including design, layout, navigation and usability. Topics include web site types, structures, the importance of the home page, understanding screen real estate and how to use it effectively, white space, typography, titles and headlines, search engines and how to get listed and many other issues and topics related to effective web page creation.

3 semester hours

MASS COMMUNICATION 255
Sports Business and Marketing
This course provides an overview of major sports business issues. It covers professional, Olympic, collegiate sports, studies sports as a business, and discusses sports marketing, promotion, and sports sponsorships.

3 semester hours

MASS COMMUNICATION 260
Introduction to Film Studies
This course will help students develop a broad understanding of the various systems involved in filmmaking. They will adapt an analytical approach to film viewing in order to discover the range of meanings that are not readily apparent. The course focuses on key concepts of film aesthetics, form and style with the goal of informed critical analysis. It will look at the construction of film images, systems of film editing, film sound, and the varied modes of organizing these core elements. Students will define and analyze the cultural significance of various classics as well as modern and international films. By viewing and discussing films of different types and genres, students will demonstrate their knowledge through written assignments as well as exams and an oral presentation. Due to time constraints, in-class screenings will consist of select scenes. Students will be assigned full screenings to correspond with written assignments.

3 semester hours

MASS COMMUNICATION 262
Writing for Interactive Media
Understanding the Internet as an information vehicle and how the role of the writer is more than just creating strong text. This course offers discussion and hands-on work in the art and science of effective organization, preparation, writing and editing for the interactive media audience. Students learn to use a content management system that will help them maintain client and employer websites.

3 semester hours

MASS COMMUNICATION 270
Public Relations
An introduction to public relations. Current practices and problems, with emphasis on the role of the public relations practitioner as a specialist in communications, analyst of public opinion, and counselor to the major sponsors of public communication.

3 semester hours

MASS COMMUNICATION 272
Creating Digital Media
This hands-on laboratory course offers students work in building digital media projects. Students will explore new techniques and platforms and build portfolio worthy projects they can use when seeking employment. It is recommended that a student has taken MCOM218 or has a basic understanding of Photoshop.

3 semester hours

MASS COMMUNICATION 277
Broadcast TV and News
Broadcast TV and News provides students with a hands-on experience with the production facilities in an immersive lab environment. Students will learn to demonstrate their ability to conceive, illustrate, preproduce, produce, and broadcast a news show.

3 semester hours

MASS COMMUNICATION 284
Business and Professional Communications
Understanding and development of communications skills necessary for individuals to function effectively in business and corporate roles. Special consideration given to the verbal and nonverbal elements of the work situation: barriers to communications, listening skills, interviewing, instructional skills, forms of negotiation, technical reports, and principles of group behavior. Students' skills are assessed relative to the levels of communication required in various career areas and cultural milieus. Students output a resume, cover letter, and thank you letter for their dream job or internship. Extensive time is spent learning and rehearsing the answers to the most common interview questions.

3 semester hours

MASS COMMUNICATION 290
Intercultural Communication
Study of basic concepts, theories, and practices of intercultural communication, including elements of cultural systems, social identification and group relations, influence of culture, language and culture, nonverbal communication, intercultural negotiation, and intercultural conflict resolution. Intercultural communication as applied to interpersonal communication, group communication, organizational communication, public communication, and mass communication. Communication principles will be applied to intercultural interaction so that misunderstanding, prejudice, stereotypes, and discrimination can be reduced or eliminated.

3 semester hours

MASS COMMUNICATION 299
Topics in Mass Communication
1-6 semester hours

MASS COMMUNICATION 306
Argumentation and Debate
Knowledge and practice in the craft of research and reasoning in argumentative communication. Practice in analysis, evidence, briefing, refutation, and delivery of arguments. Prerequisite: Mass Communication 110.

3 semester hours

MASS COMMUNICATION 323
Advertising Copywriting
Critical study and application of communication principles and concepts as applied to planning and preparing advertising messages. Writing and visualization for print, broadcast, and digital media. Prerequisite: Mass Communication 220.

3 semester hours

MASS COMMUNICATION 330
Advertising Media Planning
An investigation of various mass media audiences’ characteristics, preferences and composition and how that information is obtained and used in planning media strategy in advertising. Topics include characteristics and evaluation of major media rates and sources of information; problems of coverage, duplication, costs and scheduling. Prerequisite: Mass Communication 220.

3 semester hours

MASS COMMUNICATION 333
TV Commercials
Study how advertising strategies are translated into creative briefs and message strategies that guide the creative process. Special consideration is given to the roles of TV commercials, the format elements of TV commercials, the
Mass Communication

advantages of TV commercials, the creative process of designing TV commercials, and the creation of TV commercials. Prerequisite: Mass Communication 220.
3 semester hours

MASS COMMUNICATION 339
Advertising and Public Relations Campaigns
A real-world, hands-on experience where the class acts as an agency and produces a high-end, full-up advertising and public relations campaign for a client. There’s in-depth analysis and practice in strategies and tactics employed in creating a campaign. Class yields an impressive array of traditional and digital collateral that students can use in their portfolios. Prerequisite: Mass Communication 220.
3 semester hours

MASS COMMUNICATION 341
Magazine and Feature Writing
An in-depth experience of writing for digital and traditional media. Focus is on the additional research and preparation needed for this writing genre. Principles of advocacy and rhetoric and their relevance in the news media are explored. Prerequisite: Mass Communication 235 or 240.
3 semester hours

MASS COMMUNICATION 342
Digital Project Management
Students work in teams to create and produce an original web site or extensively improve an existing one, working in conjunction with a real-world client. The work is performed in a real-life, deadline driven environment and will produce a portfolio piece for those entering the field of digital media. Students learn the roles and duties of those who work on interactive teams. Instructor’s permission may be required for this course. Prerequisite: MCOM 252 Introduction to Web Publishing.
3 semester hours

MASS COMMUNICATION 346
Media Management
Examination of the internal functioning and management practices related to the various media institutions. Discusses management by objectives, work plans, analysis methods, budget-setting, research planning, message strategy and plans, media/channel strategy and plans, and evaluation methods related to communication activities. Emphasis is on developing integrated approaches to solving communication problems under changing environmental conditions.
3 semester hours

MASS COMMUNICATION 352
Advanced Web Publishing
This course sets out to define and apply advanced concepts of HTML and CSS scripting. Students will develop data driven sites incorporating scripting and advanced HTML concepts, combining technical skills with professional design approaches. Instructor’s permission may be required for this course. Prerequisite: MCOM 252 Introduction to Web Publishing.
3 semester hours

MASS COMMUNICATION 354
Media, Sports, and Society
This course studies the relationship between and among media, sports, and society. It examines media coverage of sports, the mediated sports culture, sports and politics, the spectators’ enjoyment of sports violence, the dark side of competition, and gender and ethnicity issues in sports. Instructor’s permission may be required for this course.
3 semester hours

MASS COMMUNICATION 355
Sports Psychology
A study of the psychological foundations of physical activity. An overview of the psychological and mental factors that influence and are influenced by participation and performance in sports, exercise and physical activity. Included are applications of the knowledge gained through research to everyday settings.
3 semester hours

MASS COMMUNICATION 360
Broadcast News Writing
Instruction and practice in the basics of writing news for broadcast media. Emphasis on broadcast style, specificity of language, time constraints and other considerations unique to traditional and digital radio and television news. Prerequisite: Mass Communication 235 or 240.
3 semester hours

MASS COMMUNICATION 375
The Portfolio Project
The semester is spent creating professional portfolios students can use to seek employment. This is a highly specialized, hands-on class where actual portfolios are created to help students obtain work in their specific area of interest—advertising, public relations, sports media, digital media, broadcast, non broadcast, production, and many more. Prerequisites: Juniors and Seniors who already have portfolio pieces created from prior classes. Sophomores upon instructor’s approval.
3 semester hours

MASS COMMUNICATION 370
Publicity Methods
A real-world, hands-on experience where the class acts as an agency and produces a high-end, full-up public relations campaign for a client that includes free and paid media. Students see a project through from the discovery phase through to the delivery of the campaign to the client. Class yields an impressive array of traditional and digital collateral that students can use in their portfolios. Prerequisite: Mass Communication 220.
3 semester hours

MASS COMMUNICATION 384
Organizational Communication
Communication in formal organizations, such as schools, industry, hospitals, and government, with emphasis on how organizational variables affect communication behavior of humans at work. Simulation, role-playing, case method, and videotape are used as techniques for evaluating personal and organizational effectiveness.
3 semester hours

MASS COMMUNICATION 390
Media Law and Ethics
Legal interpretations and standards of judgment that affect the reporter and the mass media. Theory of the First Amendment. Problems of libel, privacy, censorship, contempt, news source protection. Relationship of media regulations to community standards and social mores. Instructor’s permission may be required for this course.
3 semester hours

MASS COMMUNICATION 395
Senior Seminar in Mass Communication
Emphasis on the analysis of mass media institutions, content, function, and policy. Problem-centered approach, requiring experimentation in media forms and journalistic inquiry. Prerequisite: Senior standing within the Department of Mass Communication.
3 semester hours

MASS COMMUNICATION 398
Internship
Professional, supervised work in an organization related to career goals. Prerequisite: Permission of department required.
3 semester hours
Introduction to derivatives, and the applications of trigonometry, as well as calculus at the university level that is heavily focused on all topics trigonometry, as well as analytic geometry, conic sections, limits, introduction to derivatives, and the applications of these mathematical skills in modeling of real life situations.

 prerequisites: "C+" or better in MATH 106 or Mathematics Placement Exam.

 4 semester hours

MATH 110 Calculus and Analytic Geometry I

 4 semester hours

MATH 112 Calculus and Analytic Geometry II
Derivatives and integrals involving exponential, logarithmic, inverse trigonometric and hyperbolic functions. L'Hopital's rule. Techniques of integration including substitution method, integration by parts, partial fraction expansions, approximate integration, use of integral tables. Improper integrals. Infinite sequences and series. Taylor and Maclaurin series representations of functions. Parametric equations and polar coordinates. Applications to geometry, engineering, and the physical, natural and social sciences. Prerequisite: "C" or better in MATH 110.

 4 semester hours

MATH 200 Mathematics Cooperative Work Study
Students entering the Mathematics Cooperative Education Program take this course each semester that they are employed full-time in paid work assignments. A written report will be required describing achievements resulting from the work experience. Prerequisite: Completion of at least 30 semester hours and permission of the Department.

 1 semester hour with a maximum of 6 semester hours to be applied to the degree

MATH 203 Elementary Statistics
A non-calculus introduction to applied statistics for business, life and social science students. Probability. Classification of data, averages, dispersion, frequency distributions, confidence intervals, and test of significance. Elementary linear regression and correlation. The course will make use of statistical software. Prerequisite: "C" or better in MATH 103.

 3 semester hours

MATH 214 Linear Algebra
System of linear equations and matrix algebra, determinants, vector spaces, eigenvectors, linear transforms and orthogonality. Prerequisite: "C" or better in MATH 110.

 3 semester hours

MATH 215 Calculus and Analytic Geometry III
Vector algebra and calculus and the geometry of space. Functions of several variables and partial differentiation. Directional derivatives and the gradient vector. Maximum and minimum values and Lagrange multipliers. Multiple integrals. Rectangular, cylindrical and spherical coordinates. Vector fields, del operators and vector integral theorems. Prerequisite: "C" or better in MATH 112.

 4 semester hours

MATH 227 Discrete Structures
This course is an introduction to some of the discrete mathematical structures relevant to computer science, including set theory, algebraic operations and relations, formal mathematical proof, induction and recursion, counting techniques and graph theory. Required of Math majors. Identical to Computer Science 227. Prerequisite: "C" or better in MATH 109.

 3 semester hours

MATH 281 (FORMERLY 301) Differential Equations
A course in ordinary differential equations (ODEs). Classification of ODEs. Existence and uniqueness theorems. Solution of first and second order linear ODEs. Nonlinear, exact, homogeneous and higher order ODEs. Power series and Laplace transform solutions. Systems of ODEs. Applications include topics in engineering and the physical, natural and social sciences. Prerequisite: "C" or better in MATH 112.

 3 semester hours

MATH 314 Numerical Methods
A first course dealing with basic numerical methods for finding roots of non-linear equations, interpolation theory, approximation of functions, numerical integration and differen-
tiation, numerical solutions of systems of linear equations, the matrix eigenvalue problem and the numerical solutions of ordinary differential equations. Prerequisite: CPSC 101 and “C” or better in MATH 112.

3 semester hours

MATH 319
Introduction to the Theory of Numbers

3 semester hours

MATH 323
Probability and Statistics I
Classical theory of probability. Sample spaces, probability and conditional probability, Bayes’ Rule, random variables and their distributions. Discrete and continuous distributions, transformations and moment generating functions. Prerequisite: “C” or better in MATH 112.

3 semester hours

MATH 324
Probability and Statistics II
Statistical theory. Sampling distributions, the Central Limit Theorem, estimation, confidence intervals, hypothesis testing (includes normal, t, chi-square and F-test), type I and type II error, regression analysis. Prerequisite: “C” or better in MATH 323.

3 semester hours

MATH 341 (MATH 341/CPSC 341)
Operations Research
Linear programming formulation of optimization problems. The simplex method, degeneracy and duality. Transportation and assignment problems, integer programming and network flows. Prerequisite: “C” or better in MATH 214 and MATH 227/CPSC 227.

3 semester hours

MATH 351
Advanced Analysis for Scientists and Engineers I
Matrix algebra and the eigenvalue problem. Fourier series, integrals and transforms. Partial differential equations. Sturm-Liouville Systems and orthogonal functions. Bessel, Legendre, Gamma, Dirac-delta and other special functions. Applications to various areas of science and technology. Prerequisites: “C” or better in MATH 281 (Differential Equations) and MATH 215 (Multivariable Calculus) or permission of the instructor.

3 semester hours

MATH 352
Advanced Analysis for Scientists and Engineers II
Functions of a complex variable. Conformal mapping. Laurent Series, residues and contour integration. Prerequisites: “C” or better in MATH 281 (Differential Equations) and MATH 215 (Multivariable Calculus) or permission of the instructor.

3 semester hours

MATH 380
Selected Topics in Mathematics
Topics which are not currently in other mathematics courses. Examples are mathematical modeling, complex analysis, calculus of variations and selected topics in differential equations. May be taken more than once for credit when topics are different. Prerequisite: Completion of at least 24 credits in mathematics or permission of instructor.

3 semester hours

MATH 389
Seminar in Mathematics
A course wherein students listen to mathematics presentations by faculty, visiting speakers, and other students. Students read undergraduate mathematics and work on challenging problems. Students present work in undergraduate mathematics research. Prerequisite: Permission of instructor.

1-3 semester hours

MATH 399
Independent Study
Advanced work in areas of mathematics under the supervision of a department faculty member. Prerequisite: Permission of Division Director.

1-3 semester hours

MECHANICAL ENGINEERING

MECHANICAL ENGINEERING 112
Engineering Graphics
This course provides an introduction to engineering graphics and visualization including engineering drawing and 3-D solid modeling with a computer aided design (CAD) package. Topics include the design process, multiview projection and sectioning, dimensioning, tolerancing, and working drawings.

3 semester hours

MECHANICAL ENGINEERING 200
Undergraduate Co-op/Internship in Mechanical Engineering
By arrangement.

1-3 semester hours

MECHANICAL ENGINEERING 223
Thermodynamics
This course introduces principles of thermodynamics, properties of ideal gases and water vapors, first and second laws of thermodynamics, and entropy. Applications of thermodynamic analysis in engineering applications. Prerequisites: Mathematics 112, Chemistry 103. Co-requisite: Mathematics 215.

3 semester hours

MECHANICAL ENGINEERING 250
Engineering Mechanics: statics
This course utilizes vector algebra and free body diagrams to solve problems in engineering statics. The topics include vector algebra of forces and moments, free body diagrams, equilibria of particles and rigid bodies, internal forces in trusses and frames, centroids and moments of inertia. Prerequisites: Mathematics 112, Physics 207.

3 semester hours

MECHANICAL ENGINEERING 252
Engineering Mechanics: Dynamics
This course is designed to teach kinematics and kinetics of particles and rigid bodies. Newton’s laws of motion, work-energy, and
Mechanical Engineering

impulse-momentum are studied and applied to practical engineering problems.
Prerequisites: Mechanical Engineering 250 (C or better), Mathematics 215
3 semester hours

MECHANICAL ENGINEERING 303

Applied Thermodynamics
This course applies thermodynamics principles to the analysis of power generation, refrigeration, and air-conditioning systems. The topics include: gas and vapor power cycles, refrigeration and heat pump cycles, properties of gas mixtures and psychrometrics, exergy, combustion, and chemical equilibrium.
Prerequisites: Mechanical Engineering 203
3 semester hours

MECHANICAL ENGINEERING 305

System Dynamics
This course is an introduction of mathematical modeling of dynamic systems with mechanical, thermal, hydraulic, and electrical elements. Modeling techniques based on physical principles are used to generate system transfer functions. Analytical and computer simulations are used to study system behaviors. Topics include transient response analysis, frequency response analysis, stability, and feedback control design.
Prerequisites: Mechanical Engineering 252, Mathematics 281, Electrical Engineering 233, Electrical Engineering 235
3 semester hours

MECHANICAL ENGINEERING 307

Fluid Mechanics
This course introduces the fundamentals of fluid mechanics and explores the topics of fluid statics, buoyancy, key properties which affect fluid motion, fluid flow regimes, governing equations, empirical and analytic methods of internal and external flows.
Prerequisites: Mechanical Engineering 203, Mathematics 215 (C or better), Mathematics 281 (C or better)
3 semester hours

MECHANICAL ENGINEERING 310

Mechanics of Materials
This course introduces the concepts of stress, deformation and strain in solid materials. Topics include stress and strain analysis applied to beams, vessels, and pipes; combined loading; stress and strain transformations; bending stresses and shear stresses in beams; column buckling.
Prerequisites: Mechanical Engineering 250
3 semester hours

MECHANICAL ENGINEERING 315

MECHANICAL Vibrations
This course covers vibration analysis of single and multi-degree-of-freedom systems as well as continuous systems, including both damped and undamped free and forced vibration.
Pre-requisite: Mathematics 281, Mechanical Engineering 252, Mechanical Engineering 310.
3 semester hours

MECHANICAL ENGINEERING 350

Machine Design
This course covers part modeling, selection, and engineering analysis of machine components to design structural frame, bearings, supporting beam, shafts, springs, gears, fasteners, and other elements in a machinery and mechanical systems.
3 semester hours

MECHANICAL ENGINEERING 361

Senior Design Project I
The first part of the senior design project, which covers topics of product design and development process. Design project proposals, computer-aided design, analysis, and modeling of an open-ended engineering design problem. Development and presentation of conceptual designs.
Prerequisites: Mechanical Engineering 307, Co-requisite: Mechanical Engineering 350.
3 semester hours

MECHANICAL ENGINEERING 362

Senior Design Project II
The second part of the senior design project, which covers topics of product design and development process. Development of a working design started in the previous semester using computer-aided design, analysis, modeling, and optimization methods and manufacture a prototype of the final design.
Prerequisites: Mechanical Engineering 361
3 semester hours

MECHANICAL ENGINEERING 363

Heat and Mass Transfer
This course introduces heat transfer principles and their applications in a wide range of engineering applications. The three fundamental modes of heat transfer are studied in detail: conduction (steady-state and transient) convection (forced and natural) and radiation. Basic concepts such as Fourier’s Law, Newton’s Law of Cooling and the Stefan-Boltzmann Law are presented as well as analytic, empirical and numerical methods of solution. Key properties which affect the rate of heat transfer such as the heat transfer coefficient, thermal conductivity and emissivity are examined.
Prerequisites: Mathematics 281 (C or better), Mechanical Engineering 203, Mechanical Engineering 307
3 semester hours

MECHANICAL ENGINEERING 369D

Thermal Fluid Systems Design
This course integrates thermodynamics, fluid mechanics and heat transfer through application to the design of various thermal systems comprised of several components requiring individual analyses. Emphasis on modeling, analysis, and design of engineering systems and components with state-of-the-art computer software.
Prerequisites: Mechanical Engineering 307, Mechanical Engineering 363
3 semester hours

MECHANICAL ENGINEERING 372

Manufacturing Engineering
This course covers major manufacturing processes for engineering materials, including forming and shaping processes and equipment, machining processes and machine tools, etc. It also introduces modeling and analysis for manufacturing process design and optimization.
Prerequisites: Mechanical Engineering 310
3 semester hours

MECHANICAL ENGINEERING 380

Mechanical Measurement and Data Analysis
The course introduces the fundamentals of basic instrumentation, experimental measurement and data analysis used in mechanical engineering. In addition to instrument use and the planning and execution of experiments, the topics of calibration, precision, sampling, accuracy and error are included. Special focus is given to the preparation of technical reports.
Prerequisites: Mechanical Engineering 250, Electrical Engineering 233, Electrical Engineering 235
3 semester hours

MECHANICAL ENGINEERING 381

Mechanical Engineering Systems Lab
This course is the application of measurement techniques developed in MEEG 380 to various
**Medical Laboratory Science (MLSC)**

**MEDICAL LABORATORY SCIENCE 301**
**Phlebotomy**
Introduction to the theory and practice of phlebotomy and laboratory safety. Pre-analytical, analytical and post analytical components of laboratory service. Introduction to the principle and practice of quality assurance and quality improvement. Offered: Spring/Fall only
2 semester hours

**MEDICAL LABORATORY SCIENCE 301L**
**Phlebotomy Lab**
Introduction to the practice of phlebotomy and laboratory safety. Pre-analytical, analytical and post analytical components of laboratory service. Introduction to the principle and practice of quality assurance and quality improvement. Offered: Spring/Fall only
1 semester hour

**MEDICAL LABORATORY SCIENCE 310**
**Intro to Hematology**
Lecture/laboratory course that emphasizes basic hematologic principles. Manual and automated procedures are performed. Emphasis on morphology and clinical applications. The course includes hemostasis and components in the blood related to hemostatic mechanisms. Includes principles of procedures involved and their relationship to diagnosis and treatment of disease. Prerequisite: BIOL 102 or 213. Recommend MLSC 315 or Bio 114 as a prerequisite for Biology majors. Offered: Spring/Fall only
2 semester hours

**MEDICAL LABORATORY SCIENCE 310L**
**Intro to Hematology**
This course will provide an extensive orientation to a hematology laboratory and include a more extensive component for coagulation and body fluid examination. Students will use this material as a pre-requisite to clinical rotations. Prerequisite: MLSC 315, Biology 102, 211 or 113, or 213. Lab fee assessed. Offered: Spring/Fall only
2 semester hours

**MEDICAL LABORATORY SCIENCE 311**
**Intro to Clinical Chemistry**
Lecture/laboratory course focusing on clinical significance and methodology of carbohydrates, proteins, lipids, enzymes, electrolytes, blood gases, acid-base balance, liver function, kidney function, and endocrinology. Emphasis on quality control as it applies to selected clinical chemistry procedures. Review of lab math and statistics. Prerequisite: Chemistry 380 with a C or better. Offered: Spring/Fall only
2 semester hours

**MEDICAL LABORATORY SCIENCE 314**
**Intro to Immunohematology**
Lecture/laboratory course emphasizing immunohematologic concepts and properties underlying scientific principles of blood banking. Includes theory and practical applications of blood-group systems, antibody identification and compatibility testing, hemolytic disease of the newborn, autoimmune hemolytic anemia, and donor testing introduction to procurement and processing. Prerequisite: Biology 341 or MLS 341. Offered: Spring/Fall only
2 semester hours

**MEDICAL LABORATORY SCIENCE 315**
**Fundamentals of Medical Laboratory Science**
Lecture/laboratory course emphasizing immunohematologic concepts and properties underlying scientific principles of blood banking. Includes theory and practical applications of blood-group systems, antibody identification and compatibility testing, hemolytic disease of the newborn, autoimmune hemolytic anemia, and donor procurement and processing. Prerequisite: Biology 102. Offered: Spring/Fall only
2 semester hours

**MEDICAL LABORATORY SCIENCE 317**
**Mycology/Parasitology/Virology**
Overview of medically significant fungi, parasitic viruses. Emphasis will be placed on pathogenesis, modes of transmission, and identification. Laboratory techniques used in isolation, cultivation, and identification will be used. Also included will be discussions of epidemiology and host response regarding these microorganisms. Prerequisite: Biology 320. Offered: Spring only
4 semester hours

**MEDICAL LABORATORY SCIENCE 320**
**Pre-clinical Seminar I**
An introduction to the profession of clinical laboratory science., review of Ethics and professionalism, confidentiality, health care issues, application of safety and government regulations and standards, customer service, interpersonal and interdisciplinary communication and team building skills, UBMLSC policy manual student handbook review, preparation for clinical interviews, resume writing, laboratory organization, roles, and credentialing of laboratory practitioners are discussed. Standards, ethics, and current professional issues are examined. Communication skill development and review of scientific literature are included. Review for the successful completion of the clinical readiness examination. Offered: Spring/Fall only
1 semester hour

**MEDICAL LABORATORY SCIENCE 321**
**Clinical Seminar I**
Educational methodology, including objective and examination, writing and item analysis curriculum design and evaluation of Cognitive, affective and psychomotor domains. Accreditation, Certification and licensure related issues. Dynamics of the health care delivery system as it relates to the clinical laboratory and services. Offered: Spring/Fall only
1 semester hour

**MEDICAL LABORATORY SCIENCE 322**
**Clinical Seminar II**
Introduction to human resource and financial management, Lab operations including critical pathways and clinical decision making, performance improvement, lab information systems LIS, personnel management and financial management of a clinical laboratory. Advanced principles and practices of quality assurance and quality improvement, Career advancement and planning, Professionalism, CMP. Offered: Spring/Fall only
1 semester hour
MEDICAL LABORATORY SCIENCE 332
**Medical Microbiology**
This course is taught in conjunction with the Bio332 Medical microbiology course, the laboratory section is open to MLS majors and focuses on techniques used for the identification of microorganisms in a clinical laboratory. Pre-requisite Biology 320 with a C or better.
Offered: Fall only
3 semester hours

MEDICAL LABORATORY SCIENCE 332L
**Medical Microbiology Lab**
The study of infectious disease processes; the biology of pathogenic microorganisms; the etiology, pathology, diagnosis and epidemiology of viral and bacterial disease. Must be taken with MLSC 332. Pre-requisite Biology 320 with a C or better. Lab fee assessed.
Offered: Fall only
1 semester hour

MEDICAL LABORATORY SCIENCE 341
**Immunology**
Consideration of the basic principles and concepts of the mechanics of immunity and the relation of immunological phenomena to biological problems. Pre-requisite Biology 211 with a C or better. Lab fee assessed.
Offered: Spring/Fall only
3 Semester hours

MEDICAL LABORATORY SCIENCE 350
**Advanced Hematology**
Lecture/laboratory focusing on advanced principles of hematologic testing leading to improved interpretative skills in hematology. Emphasis on correlation of data with disease states and disorders. Case studies and discussion used to illustrate the pathophysiology of hematological dysfunction. Prerequisite: MLSC 310L with a C or better.
Offered: Spring/Fall only
3 semester hours

MEDICAL LABORATORY SCIENCE 354
**Advanced Immunohematology**
Lecture/laboratory focusing on problem-solving and special techniques used in antibody identification and compatibility testing. Also includes a discussion of donor requirements, blood component preparation and therapy, and quality assurance in the blood bank/transfusion service. Prerequisite: MLSC 314 with a C or better.
Offered: Spring/Fall only
2 semester hours

MEDICAL LABORATORY SCIENCE 355
**Advanced Clinical Chemistry**
Lecture/laboratory focusing on clinical significance and methodology of trace elements, vitamins, therapeutic drug monitoring, and toxicology. Newer testing methods used to identify diseases/disorders will be discussed. Emphasizes instrument selection and method validation process. Prerequisite: MLSC 311 with a C or better.
Offered: Spring/Fall only
2 semester hours

MEDICAL LABORATORY SCIENCE 356
**Clinical Research**
A review of qualitative and quantitative research methods and statistics resulting in the completion of a clinical based technical or educational based research project.
Offered: Spring/Fall only
4 semester hours

MEDICAL LABORATORY SCIENCE 357
**Clinical Immunohematology Laboratory Rotation (Clinical)**
Provides an opportunity for the student to pursue individual study in their field of interest under the supervision of a specialist. Prerequisite: Permission of instructor and the Department Chair.
1-6 semester hours

MEDICAL LABORATORY SCIENCE 384
**Clinical Chemistry Laboratory Rotation (Clinical)**
Provides an opportunity to apply chemical and immunologic theory and practice to routine and special clinical chemistry procedures, toxicology, therapeutic drug monitoring, and urinalysis. Also includes immunologic procedures. Includes instruction and experience in the use, standardization, and maintenance of sophisticated laboratory analyzers. Prerequisite: MLSC 311 with a C or better and successful completion of the clinical readiness examination.
Offered: Spring/Fall only
5 semester hours

MEDICAL LABORATORY SCIENCE 385
**Clinical Microbiology Laboratory Rotation (Clinical)**
Isolation and identification of clinically important bacteria, mycobacteria, and fungi including antibiotic susceptibility testing. Techniques for identifying parasites are included. Prerequisite: MLSC 332 with a C or better and successful completion of the clinical readiness examination.
Offered: Spring/Fall only
4 semester hours

MEDICAL LABORATORY SCIENCE 386
**Clinical Immunohematology Laboratory Rotation (Clinical)**
Blood typing, antibody screening and identification, compatibility testing, and other immunohematologic procedures are included. Emphasis is on operation and problem-solving in a modern transfusion service. Prerequisite: MLSC 314 with a C or better and successful completion of the clinical readiness examination.
Offered: Spring/Fall only
3 semester hours

MEDICAL LABORATORY SCIENCE 388
**Clinical Correlation (Clinical)**
Use of problem-based case studies to analyze clinical situations and correlate laboratory data. Prerequisite: Successful completion of the clinical readiness examination.
Offered: Spring/Fall only
2 semester hours

MEDICAL LABORATORY SCIENCE 393
**Independent Study**
An opportunity for the student to pursue individual study in their field of interest under the supervision of a specialist. Prerequisite: Permission of instructor and the Department Chair.
1-6 semester hours
MEDICAL LABORATORY SCIENCE 410
Advanced Hematology
Lecture/laboratory focusing on advanced principles of hematologic testing leading to improved interpretative skills in hematology. Emphasis on correlation of data with disease states and disorders. Case studies and discussion used to illustrate the pathophysiology of hematological dysfunction. Prerequisite: MDTCH 310 with a C or better.
2 Semester hours

MEDICAL LABORATORY SCIENCE 411
Advanced Clinical Chemistry
Lecture/laboratory focusing on clinical significance and methodology of trace elements, vitamins, therapeutic drug monitoring, and toxicology. Newer testing methods used to identify diseases/disorders will be discussed. Emphasizes instrument selection and method validation process. Prerequisite: MLSC 311 with a C or better.
2 Semester hours

MEDICAL LABORATORY SCIENCE 414
Advanced Immunohematology
Lecture/laboratory focusing on problem-solving and special techniques used in antibody identification and compatibility testing. Also includes a discussion of donor requirements, blood component preparation and therapy, and quality assurance in the blood bank/transfusion service. Prerequisite: MLSC 314 with a C or better.
2 Semester hours

MEDICAL LABORATORY SCIENCE 420
Clinical Hematology Rotation
Automated and manual methods of cell counting and differentiation are performed on blood and other body fluids. Instruction and experience in advanced instrumentation using automated cell counters and differential systems, coagulation and platelet analyzers, and special hematologic testing of white and red cells using cytochemistry techniques are provided to identify disease states and disorders. Prerequisite: MLSC Successful completion of MLSC 310 with a C or better. and successful completion of the clinical readiness examination.
4 Semester hours

MEDICAL LABORATORY SCIENCE 421
Clinical Chemistry Rotation
Provides an opportunity to apply chemical and immunologic theory and practice to routine and special clinical chemistry procedures, toxicology, therapeutic drug monitoring, and urinalysis. Also includes immunologic procedures. Includes instruction and experience in the use, standardization, and maintenance of sophisticated laboratory analyzers. Prerequisite: MLSC 311 with a C or better and successful completion of the clinical readiness examination.
5 Semester hours

MEDICAL LABORATORY SCIENCE 422
Clinical Microbiology Rotation
Isolation and identification of clinically important bacteria, mycobacteria, and fungi including antibiotic susceptibility testing. Techniques for identifying parasites are included. Prerequisite: MLSC 332 with a C or better and successful completion of the clinical readiness examination.
4 Semester hours

MEDICAL LABORATORY SCIENCE 424
Clinical Immunohematology Rotation
Blood typing, antibody screening and identification, compatibility testing, and other immunohematologic procedures are included. Emphasis is on operation and problem-solving in a modern transfusion service. Prerequisite: MLSC 314 with a C or better and successful completion of the clinical readiness examination.
3 Semester hours

MEDICAL LABORATORY SCIENCE 431
Clinical Correlations
Use of problem-based case studies to analyze clinical situations and correlate laboratory data. Prerequisite: Successful completion of the clinical readiness examination.
2 Semester hours

MEDICAL LABORATORY SCIENCE 432
Clinical Research
A review of qualitative and quantitative research methods and statistics resulting in the completion of a clinical based technical or educational based research project.
1 Semester hour

Music

MUSIC 109
Music Theory I
A thorough exploration of music fundamentals: principles of notation, clefs, time signatures, musical terms, rhythmic concepts, scales, keys, triads, and seventh chords. Application of these fundamentals is emphasized through study of musical literature.
3 semester hours

MUSIC 109A & 110A
Aural Theory I & II
Development of aural skills beginning with fundamentals, including interval, scale, and triad recognition; solfeggé, sight-singing, sight-reading, and dictation.
1 semester hour

MUSIC 110
Music Theory II
The study of species counterpoint as a tool to inform analysis, improvisation, performance, and composition. First through fourth species are studied in two and three voices.
3 semester hours

MUSIC 121
Music Appreciation
A basic course in the elements of music and their historical application in Western music. Active listening and student participation is emphasized.
3 semester hours

MUSIC 122
Music in the Liberal Arts
This course explores the influences of music on and from fields such as literature, mathematics, religion, business, and psychology. It is designed to develop a passion for creative sounds through phonocentric skills developed in class, extensive reading, and written assign-
Music

MUSIC 123
Song Logic
A continuation and development of skills learned in MUSC 122 (which is a prerequisite). Students will assimilate intermediate level analytical techniques as applied to popular music. Students will learn how some albums are assembled as concept albums using techniques developed by composers in 19th century song cycles. Students will develop an analytical portfolio.
3 semester hours

MUSIC 124
Introduction to World Music
Music is a universal human practice. This course provides an introduction to the diverse musical traditions of the world, and to thinking about music from an ethnomusicological perspective. Folk, popular, and composed music from multiple regions is studied in terms of structure, performance practice, social use, and cultural significance.
3 semester hours

MUSIC 137 & 138
Beginning & Intermediate Music Production
In this course, students will learn to use the digital audio workstation Pro Tools to effectively record, edit, and produce original music and/or arrangements. Pro Tools is widely used by audio professionals for music recording, editing, and production.
3 semester hours

MUSIC 201 & 202
Masterworks of Music I & II
Designed to increase knowledge of musical literature and to refine awareness of musical patterns and syntax. Representative works are analyzed and compared.
3 semester hours

MUSIC 203
Music History I
The historical development of music and musical styles from ancient Greece to the end of the Baroque era.
3 semester hours

MUSIC 204
Music History II
The historical development of music and musical styles during the Classical and Romantic periods.
3 semester hours

MUSIC 205
Music History III
An examination of the varied music produced from the late nineteenth century into the twentieth-first, including influential works and major composers. Connections will be made to relevant historical, cultural, and philosophical developments. Prerequisite: MUSC 203 and 204, or permission of the instructor.
3 semester hours

MUSIC 207
History of Jazz
A study of the periods of jazz, jazz performers and composers, trends, influences, stylistic features, and related materials.
3 semester hours

MUSIC 208A & 208B
Jazz Improvisation and Repertoire I & II
Study of jazz improvisation through the study of harmony and style. Students analyze and transcribe solos. Prerequisites: MUSC 109 & 110.
3 semester hours

MUSIC 213 & 214
Songwriting I & II
Students will compose songs in various commercial and popular idioms, with assistance from peers and the instructor in editing, revising and refining their creations, leading to a portfolio of notated and recorded work. Prerequisites: MUSC 110, MUSC 110A.
3 semester hours

MUSIC 215
Music Theory III
Introduction to the harmonic and formal practices of the seventeenth and eighteenth centuries in Western music. Examples from the repertoire studied. Continues the study of four-part writing.
3 semester hours

MUSIC 216
Music Theory IV
Introduction to the harmonic practices of the nineteenth and early twentieth centuries in Western music, with an emphasis on chromaticism and large scale formal considerations. Examples from the repertoire will be studied.
3 semester hours

MUSIC 220
Vocal Diction
Study of IPA and vowel and consonant pronunciation required for singing in Italian, German, French, and English. Specific application to the song and operatic literature.
3 semester hours

MUSIC 225 & 226
Fundamentals of Piano I & II
Development of basic keyboard skills in a group setting.
3 semester hours

MUSIC 395
Senior Recital
Student prepares and performs a recital of approximately thirty to forty-five minutes of solo and small ensemble repertoire, providing a printed program and program notes, as a public demonstration of skills and knowledge developed throughout their collegiate music study.
1 semester hour

MUSIC 398
Internship
Professional, supervised, unpaid work experience in an organization related to the student's career goals in music. Permission of program director required.
1 semester hour

MUSIC 399
Independent Study
Specialized advanced projects in subjects not covered by course offerings. Conferences with designated Independent Study advisor. Permission of program director required.
1-3 semester hours

MUSIC 414
Business of Music
Practical knowledge of skills necessary to function and flourish as a professional musician. Standard business models for private studio teaching, not-for-profits, performing contracts, artist management, recording and publishing.
3 semester hours

Ensembles

MUSIC 103
University Singers
The University Singers is an un auditioned, mixed-voice chorus open to all members of the University community. It performs music
ranging the complete breadth of choral repertoire at concerts and University functions.
1 semester hour.

MUSIC 104
Chamber Singers
Auditioned vocal ensemble drawn from the University Singers sings demanding music; permission of instructor or program director required.
1 semester hour.

MUSIC 105
Orchestra
A university-community orchestra offering opportunity for public performance.
1 semester hour.

MUSIC 106
Fusion Ensemble
Instrumental ensemble performing in a variety of configurations and genres, with focus on commercial, contemporary, and popular musical styles. Opportunities for arranging, composition, improvisation, and songwriting.
1 semester hour.

MUSIC 107A-P
Chamber Ensembles
Development of musical skills related to functioning within a small ensemble. An exploration of rehearsal techniques and group dynamics leading to performance of chamber ensemble repertoire.
1 semester hour.

MUSIC 108
UB Percussion Group
Percussion ensemble performing in concert.
1 semester hour.

MUSIC 109
Accompanying
Serving as piano accompanist for University ensembles, productions, vocal lessons, or instrumental lessons as assigned.
1 semester hour.

MUSIC 111
Concert Band
A university-community wind ensemble offering opportunity for public performance.
1 semester hour.

Music Education

MUSIC EDUCATION 240
Field Experience in Music Education
Designed to give the prospective music teacher firsthand knowledge of the role, responsibilities, and skill set of the professional music educator and the realities of contemporary music education by observing and assisting experienced music teachers in local schools and arts organizations, and reflecting on the experience.
1 semester hour.

MUSIC EDUCATION 311
Conducting
Students will acquire or refine further the fundamentals of an effective conducting technique, as well as rehearsal techniques and approaches to score study. 3 semester hours.

MUSIC EDUCATION 320
Group Instruction in Voice
Designed to provide the future school music teacher with improved proficiency as a singer, an understanding of vocal development, and the ability to develop students’ singing voices at all grade levels.
3 semester hours.

MUSIC EDUCATION 321
Group Instruction in Strings
Designed to provide the future school music teacher with basic proficiency on string instruments, and the skills needed to teach string players at all grade levels.
3 semester hours.

MUSIC EDUCATION 323
Group Instruction in Woodwinds
Designed to provide the future school music teacher with basic proficiency on woodwind instruments, and the skills needed to teach woodwind players at all grade levels.
3 semester hours.

MUSIC EDUCATION 325
Group Instruction in Brass
Designed to provide the future school music teacher with basic proficiency on brass instruments, and the skills needed to teach brass players at all grade levels.
3 semester hours.

MUSIC EDUCATION 326
Group Instruction in Percussion
Designed to provide the future school music teacher with basic proficiency on both pitched and unpitched percussion instruments, and the skills needed to teach percussionists at all grade levels.
3 semester hours.

MUSIC EDUCATION 331
Literature and Techniques for Choral Music
A study of choral literature and rehearsal techniques appropriate for all grade levels.
3 semester hours.

MUSIC EDUCATION 332
Literature and Techniques for Instrumental Music
Study of band, orchestra, and jazz ensemble literature with emphasis on rehearsal techniques and problems related to band and orchestra organization.
3 semester hours.

MUSIC EDUCATION 341
Choral Practicum
Designed to give the music education student an opportunity to expand conducting technique, develop rehearsal techniques, and expand familiarity with standard choral literature. Opportunity will be provided to rehearse and conduct University choral ensembles.
1 semester hour.

MUSIC EDUCATION 342
Instrumental Practicum
Designed to give the music education student an opportunity to expand conducting technique, develop rehearsal techniques, and expand familiarity with standard instrumental literature. Opportunity will be provided to rehearse and conduct University instrumental ensembles.
1 semester hour.

MUSIC EDUCATION 343
Music in Elementary Schools
Musicianship skills, musical repertoire, pedagogy, and problem-solving for teaching music in prekindergarten through grade six.
3 semester hours.

MUSIC EDUCATION 344
Music in Secondary Schools
Musicianship skills, musical repertoire, pedagogy, and problem-solving for teaching music in secondary schools.
3 semester hours.

MUSIC EDUCATION 399
Independent Study
Specialized advanced projects in subjects not covered by course offerings. Conferences with designated independent study advisor. Permission of program director required.
1-3 semester hours.

MUSIC EDUCATION 435
Designing Curriculum and Instruction in Music
In this seminar, students will explore, and critically reflect upon, the relationships among music, philosophy, psychology, sociology, and education. Course content includes aesthetic
and praxial philosophies of music and the arts (from ancient Greece to the present) as well as the psychology of music, the history and sociology of music, and influential practices and schools of thought within the profession (i.e., Dalcroze, Gordon, Kodaly, Orff). Students will explore the implications of course concepts for contemporary music education at all grade levels.

3 semester hours

Nursing

NURSING 301
Nursing Theory & Evidence-Based Practice (pre-req Statistics)
This course is designed to introduce the RN student to the conceptual, philosophical, scientific, and ethical bases for professional nursing practice. The relationship among theory, research and evidence-based practice is explored and applied to real life practice situations. The role of the nurse in support of this theory, research, and evidence-based practice is addressed through a theoretical paper, research critiques, and discussion of evidence-based care in selected scenarios.
3 Credits

NURSING 302
Health Assessment
The focus of this course is to provide the essential elements of health assessment relevant to the role of the BSN graduate. Skills and tools for holistic health assessment are provided that facilitate the implementation of safe, quality nursing care across the lifespan.
3 Credits

NURSING 303
Community Health
This course is designed to provide students with the opportunity to apply the nursing process to the community as the health client. Students will apply principles of community assessment and health promotion to investigate a community/population health status. The health needs of populations at risk within the community are identified and plans are formulated to meet those needs. Implementation of a community health education project with a local community group is an expected outcome for this course.
4 Credits (3 credits theory, 1 credit practice experience)

NURSING 304
Professional Seminar
A seminar course focusing on issues pertinent to professional nursing practice. This course provides an opportunity for the RN student to complete the synthesis to the BSN role prior to program completion while exploring current trends that impact the practice of professional nursing.
3 Credits

NURSING 305
Leadership and Management in Nursing
Introduces the RN student to organizational theory, management, structure of nursing care delivery systems, and components of leadership behavior. This course focuses on the role of the nurse as both a formal and informal leader in multiple roles of organizing, teaching, decision making, evaluating, and managing conflict.
4 Credits (3 credits theory, 1 credit practice experience)

NURSING 306
Quality, Safety/Health Policy
This course examines health care policy and politics as it relates to the quality and safety of nursing practice. Historical, ethical, political, and economic factors are discussed and the nurse’s responsibility and role in health care policy is explored. A project facilitates application of principles addressed in the course.
4 Credits (3 credits theory, 1 credit practice experience)

NURSING 307
Nursing & Healthcare Informatics
The focus of this course is to introduce the principles of health care informatics, communication networks, and health care technology in the assessment, delivery, and evaluation of quality nursing care in a variety of settings. Ethical and legal considerations are integrated into the application of technological best practice to care.
3 Credits

NURSING 308
Capstone II
This seminar style course is designed to provide an opportunity for synthesis of learning experiences from past and current learning to promote professional practice emphasizing principles of lifelong learning and caring practices. Collaboration with other health care providers to improve evidence-based outcomes of care for individuals, families, and communities is emphasized. The application of these concepts through the development of a professional portfolio will document a strategic change project that reflects successful completion of individual goals and program learning outcomes.
3 Credits

CAPSTONE 390
Capstone Seminar (Full semester)
The Capstone Seminar is the culmination of learning in the Core Curriculum. As such it reflectively builds upon learning from the various liberal arts. The purpose of the course is to expand reading comprehension through a series of challenging and interrelated texts and to improve the understanding of and potential for creative verbal and written expression as the scholarly capstone of undergraduate experience. Students should demonstrate the ability to analyze texts and synthesize ideas and to relate texts to contemporary situations. All students write an original essay that integrates themes raised in course readings and discussions.
3 Credits

Nutrition

NUTRITION 121
Anatomy and Physiology I, II
A detailed study of the structure and function of cells, tissues, and organ systems. Control systems of the human body, homeostatic mechanisms, and the interrelationships between the systems are studied.
8 full day weekend sessions; 6 semester hours

NUTRITION 122
Introduction to Biochemistry
A review of basic general chemistry topics including atomic theory, periodic law, chemical bonding, chemical reactions, kinetics, acids, bases and organic chemistry topics including isomerism, and physiochemical properties of various functional groups. Biochemical properties of carbohydrates, lipids, proteins, and nucleotides will also be discussed.
6 full day weekend sessions; 4 semester hours

NUTRITION 123
Nutrition Seminar
A seminar designed to provide students with the basic principles of nutrition. Topics include classes and sources of nutrients, energy intake and expenditure, dietary standards and guidelines, food labeling and food safety. Emphasis
will be placed on the role of macronutrients in the diet.

2 full day weekend sessions; 1 semester hour

NUTRITION 204
Principles of Nutrition
The principles of nutrition are presented with emphasis upon diet counseling and behavioral modification for the dental patient. The case method is used both in theory and practice to relate prevention and control of oral disease through nutritional status. Prerequisite: CHEM 114.

2 semester hours

NUTRITION 295
Fundamentals of Nutrition
The fundamentals of normal and therapeutic nutrition are presented. Attention is focused on the promotion of health, prevention of illness and the restoration of health following illness for injury. This course includes a self analysis of the participant’s diet.

3 semester hours

NUTRITION 299
Independent Study
Students examine specific nutritional topics of personal interest. Permission of instructor is required.

3-6 semester hours

NUTRITION 350
Community Nutrition
This course will provide students with the knowledge, skills, tools and evidence-based approaches needed by community nutritionists to promote health and prevent diseases.

3 semester hours

Philosophy

PHILOSOPHY 101
General Philosophy
A survey of the central problems of metaphysics, epistemology, and ethics. Topics include the existence of God, extreme skepticism, the relationship between mind and body, free will versus determinism, and freedom of expression. The course includes analysis of representative thinkers.

Offered: Spring/Fall only

3 semester hours

PHILOSOPHY 103
Men, Women, Issues
A discussion of gender differences and sex equality. The course critically examines topics such as sexual harassment, comparable worth, monogamous marriage, prostitution, and rape. These topics are examined from a variety of perspectives, including conservatism, liberal feminism, traditional Marxism, radical feminism, and the care and justice outlooks that Carol Gilligan has identified.

Offered: Every 3rd of 4th Semester

3 semester hours

PHILOSOPHY 104
Logic and Scientific Method
Study of logical inference, both deductive and inductive. Analysis of propositions, arguments, fallacies, language, and the nature and functions of the methods of the sciences.

Offered: Every 3rd of 4th Semester

3 semester hours

PHILOSOPHY 110
Health Care Ethics
Explores ethical issues relating to health care. Topics include doctor-patient confidentiality, the right to refuse treatment, animal experiments, abortion, and euthanasia, among others.

Offered: Spring/Fall only

3 semester hours

PHILOSOPHY 203
Ethics
A study of problems of applied ethics, such as abortion, animal experimentation, affirmative action, and gay and lesbian rights. These problems are explored from the standpoint of ethical theories such as utilitarianism and Kantian ethics. The course helps students formulate and interpret moral values by which they may think and act.

Offered: Spring only

3 semester hours

PHILOSOPHY 205
History of Western Philosophy
A survey of the historical development of philosophy from antiquity through the 19th Century, with weight given to the contributions of Greek philosophers and those of the Middle Ages and the Enlightenment. In the 19th Century, attention is given to the rationalist, idealist, and empiricist schools of thought and their influence. Prerequisite: English 101.

Offered: Every 3rd of 4th Semester

3 semester hours

PHILOSOPHY 210
Animal Rights
This course explores philosophical theories of animal rights as well as the practical applications of these theories. Topics include vegetarianism, animal experiments, hunting and fishing, the treatment of animals in zoos and circuses, the treatment of companion animals, the treatment of animals in the fur and leather industry, and the use of violence by some animal rights activists.

3 semester hours

PHILOSOPHY 211
Philosophy of Human Rights.
This course explores the following questions: Do human beings have rights? What rights do human beings have? Is torture ever morally justified? How far should freedom of speech and freedom of action extend? Does a fetus have a right to life? To what extent does a free market promote human rights? To what extent are Confucian ideas compatible with human rights?

Offered: Every 3rd of 4th Semester

3 semester hours

PHILOSOPHY 213
Philosophy of Science
This course will introduce students to the philosophy of science by focusing on connections between science and philosophy. Students will examine the ontological status of theories, the social organization of science and interactions between these topics and epistemological questions.

Offered: Spring only

3 semester hours

PHILOSOPHY 323 (PHIL 323/PSCI 323)
Classics in Political Theory
Analysis of principles of political theories of the Ancient Greek, Roman, Medieval, and Early Modern periods. Emphasis on the thought of Plato, Aristotle, the Stoics, St. Augustine, St. Thomas Aquinas, Machiavelli, Hobbes, Locke and Montesquieu. Application of these theories to contemporary political ideas and problems. Prerequisite: English 101.

Offered: Every 3rd of 4th Semester

3 semester hours

PHILOSOPHY 340
Selected Topics in Philosophy
Concentrated study of a major figure or theme that will supplement the offerings in the department.

Offered: Every 3rd of 4th Semester

3 semester hours

PHILOSOPHY 398
Internship
1-6 semester hours
PHYSICS 103
Basic Concepts of Physics I
Space and matter, particles in motion, Newtonian mechanics, atoms and heat, wave phenomena. Lab fee assessed.
Offered: Fall only
2 lectures; 1 two-hour lab; 3 semester hours

PHYSICS 111
Principles of Physics I
The principles of mechanics and their applications. Kinematics, Newtonian mechanics, conditions for equilibrium, static’s work, energy and conservation laws. Rotation. Simple harmonic motion. Lab fee assessed.
Offered: Spring/Fall only
3 lectures; 1 three-hour lab; 4 semester hours

PHYSICS 112
Principles of Physics II
Offered: Spring/Fall only
3 lectures; 1 three-hour lab; 4 semester hours

PHYSICS 201
General Physics I
A non-calculus course which presents an introduction to classical mechanics, heat and thermodynamics. Prerequisite: Mathematics 105 or 106; minimum grade C. Lab fee assessed.
Offered: Spring/Fall only
3 lectures; 1 three-hour lab; 4 semester hours

PHYSICS 202
General Physics II
A non-calculus course covering the fundamental laws of electricity and magnetism, electric circuits, and optics, including topics from modern physics. Prerequisites: Physics 201; minimum grade C. Lab fee assessed.
3 lectures; 1 three-hour lab; 4 semester hours

PHYSICS 207
Principles of Physics I
The principles of mechanics and their applications. Kinematics, Newtonian mechanics, conditions for equilibrium, static’s work, energy and conservation laws. Rotation. Simple harmonic motion. Prerequisite: Mathematics 109; Co-requisite: Mathematics 110. Lab fee assessed.
3 lectures; 1 three-hour lab; 4 semester hours

PHYSICS 208
Principles of Physics II
3 lectures; 1 three-hour lab; 4 semester hours

PHYSICS 209
Principles of Physics III
3 lectures; 1 three-hour lab; 4 semester hours

PHYSICS 251
Advanced Analysis for Scientists and Engineers
Matrix algebra and the eigen value problem. Fourier series, integrals and transforms. Partial differential equations. Sturm-Liouville Systems and Orthogonal Functions. Bessel, Legendre, Gamma, Dirac-delta and other special equations. Applications to various areas of science and technology. Prerequisites: Mathematics 215 and 281; minimum grade C.
3 semester hours

PHYSICS 351
Advanced Analysis for Scientists and Engineers II
Functions of a complex variable. Conformal mapping. Laurent Series, residues and contour integration. Prerequisites: Mathematics 215 and 281; minimum grade C.
3 semester hours

PHYSICS 399
Selected Topics in Physics
Selected topics in physics on specialized subjects beyond the scope of required courses to inform students of current areas of interest or to train students in special areas of physics.
3 semester hours

POLITICAL SCIENCE 101
American Government
The Constitution. Structure and function of the national government: proper citizenship, civil rights, elections, and party organizations.
3 semester hours

POLITICAL SCIENCE 103
Introduction to Political Science
This course serves as a gateway to the study of political science for IPED majors and political science/international relations minors. We’ll survey the historical and philosophical foundations of the political science discipline, major subject fields under the general category of political science, key concepts and issues in political science, and basic scientific methods in political science study and research.
3 semester credits

POLITICAL SCIENCE 203
U.S. Foreign Policy
This course examines contemporary US foreign policy from theoretical and policy perspectives. How American foreign policy is formulated and conducted will be discussed during the first half of the semester. The second half will be devoted to evaluations of US policies, especially economic and trade policies, towards key regions of the world.
3 semester credits

POLITICAL SCIENCE 204
Government and Politics Abroad
Principal institutions, methods, and problems of government of selected foreign countries in Europe, Asia, Africa, and Latin America as compared with the American System.
3 semester hours

POLITICAL SCIENCE 206
The Political Economy of North-South Relations
Political-economic disparities between “North” (the developed nations) and “South” (developing countries). The causes of these disparities analyzed from an interdisciplinary point of view. Recurring patterns of obstacles to development in some new nations. The role of
international financial and other organizations.  

POLITICAL SCIENCE 207  
World Politics  
This course explores the principal elements of world politics, examining the context in which the major actors play their roles, as well as the salient features of the international community. It will review the most significant aspects of global politics by examining such topics as foreign policy, the nature of national power, and war. It will examine the origin, organization, and function of the major international institutions, and conclude with a discussion of global issues.  

3 semester hours  

POLITICAL SCIENCE 208  
Public International Law  
History and nature of international law, territorial sovereignty, natural resources and international norms (e.g., exclusive economic zones, the continental shelf, outer space, etc.), diplomatic & consular relations, International Court of Justice and other tribunals, and the use of force in international law. Prerequisite: Political Science 101 or 204.  

3 semester hours  

POLITICAL SCIENCE 209  
Introduction to United Nations Studies  
Examination of the successes and failures of the United Nations, its prospects for the future, principal organs, especially the Security Council, budgetary system, role in arms control, relations between the United Nations and the United States, and related issues.  

3 semester hours  

POLITICAL SCIENCE 215  
International Human Rights  
A study of the international protection of human rights. The course analyzes the origin and nature of human rights, the content of human rights standards guaranteed by international law, as well as the global international mechanism for the protection of human rights. It includes a comparative examination of the regional systems in Europe, the Americas, Asia, and Africa for the protection of human rights.  

3 semester hours  

POLITICAL SCIENCE 216  
Gender Politics from a Global Perspective  
This course examines the main theoretical approaches, questions, debates, and findings about the role of gender in politics across countries. Students will analyze the global variation in women’s political participation and voting behavior; women’s representation in executive and legislative offices; the impact of women’s leadership on various policy areas; and women’s participation and activism in civil society.  

3 semester hours  

POLITICAL SCIENCE 218  
Human Security  
Human Security involves looking at world security issues from the perspective of individual people. This course introduces students to the concept of Human Security, its importance in meeting the basic needs of people and preventing state collapse, and its usefulness, in forging greater transnational accountability.  

3 semester hours  

POLITICAL SCIENCE 223  
An Introduction to the U.S. Legal System  
This course will offer a comprehensive overview of the U.S. legal system, including an overview of legal practice sources and techniques with emphasis on the major substantive areas of the law. Students will begin examining issues in constitutional law, with an overview of how government functions and how laws are made. A legal writing segment of the course will allow students to use legal analysis while refining their writing skills.  

3 semester credits  

POLITICAL SCIENCE 299  
Selected Topics in Political Science  
A course with variable topic focus, dependent upon student needs and the expertise of the instructor.  

3 semester hours  

POLITICAL SCIENCE 303 (PSCI 303/IPED 340)  
Political Economy of Latin America  
This course will explore pre-Colombian, as well as colonial and post-colonial political and economic development in Latin America. It will pay particular attention to socio-political developments of the Cold War period as well as recent significant initiatives such as the Santiago Commitment, MERCOSUR, and NAFTA, attempting to assess their impact upon Latin America’s transformation from development to Third World politics, to an emerging center of democratic capitalism. Prerequisites: IPED 201 or 202 or instructor permission.  

3 semester hours  

POLITICAL SCIENCE 305  
International Relations  
International Relations is an upper-level course focused on the study of the interactions between diverse international actors, ranging from states and international organizations to individuals and non-governmental organizations (NGOs). In this course, we will explore some of the persistent problems of global politics, such as violence, inequality and environmental degradation. Prerequisite: Political Science 204 or 206 or 207.  

3 semester hours  

POLITICAL SCIENCE 312  
Diplomacy and Foreign Policy  
This course examines the role of diplomacy in international relations. Through readings and discussions we try to answer several questions: what is diplomacy? What is the role of diplomacy in foreign policy making? Who are diplomats and what do they do? What is the art of diplomacy? How to become an effective negotiator? How does culture affect international negotiations? What is public diplomacy? And what is the future of diplomacy in international relations?  

3 semester hours  

POLITICAL SCIENCE 321 (PSCI/IPED 321)  
Political Economy of East Asia  
In recent decades, the East Asian region has often been described as a model of socioeconomic development, which newly developing regions should emulate. This course will encourage learners to explore the extent to which the East Asian paradigm of development is valid for other regions. This course will explore the cultural and historical factors contributing to the political and economic trajectories China, Korea, and Japan. Through studying East Asia’s unique sociopolitical and economic trajectory, students should be equipped to better contextualize and assess the challenges and opportunities currently facing the Peoples Republic of China, Taiwan, Hong Kong, Japan, and the Koreas.  

3 semester hours
POLITICAL SCIENCE 323 (PSCI 323/PHIL 323)
Classics in Political Theory
Analysis of principles of political theories of the Ancient Greek, Roman, Medieval, and Early Modern periods. Emphasis on the thought of Plato, Aristotle, the Stoics, St. Augustine, St. Thomas Aquinas, Machiavelli, Hobbes, Locke and Montesquieu. Application of these theories to contemporary political ideas and problems. 3 semester hours

POLITICAL SCIENCE 324 (PSCI 324/PHIL 324)
Recent Political Theory
Analysis of the major contemporary ideologies, their historical-philosophical backgrounds and public policy implications. Among the ideologies and belief systems considered are liberalism, conservatism, Marxism (including Leninism and Maoism), fascism, anarchism, religious fundamentalism, and feminism. The cultural expressions of these ideologies in arts and literature are also examined. 3 semester hours

POLITICAL SCIENCE 343
Constitutional Law
This course examines the operation of the U.S. Constitution, as well as its origins, philosophical underpinnings, and current issues. Course work includes reading, discussing, and writing about constitutional issues. Prerequisite: Political Science 101 or 233. 3 semester hours

POLITICAL SCIENCE 371
Terrorism
This course introduces terrorism as a subject of sociological, legal, military, political, and strategic study. The course considers the objectives of the terrorist and terrorist organizations, and recent counter-terrorism strategies. The course also encourages students to think about long-term strategies to combat terrorism, both within a nation-state and across international borders. 3 semester hours

POLITICAL SCIENCE 373
Islam and Democracy
This course aims to address the following questions: Are Islam and democracy compatible? How is religious interest defined? How are Islamic images and institutions used? What is the historical relationship between Islam and politics? When and under what conditions is Islam publicized and politicized? Is Islam compatible with modernity? Is it possible to be modern and Muslim at the same time? How do Islamic scholars deal with the questions of “difference”, democracy, and science? The major task of this course will be to assess how religion makes an impact on politics, state and society and in turn is impacted upon and potentially transformed by society, politics and the state. Instructor's permission may be required for this course. 3 semester hours

POLITICAL SCIENCE 395
Senior Thesis
After completing Social Science Research Methods, students work individually with a faculty advisor to research and write a thesis on a topic of interest related to the field of Political Science. The project should build upon research methodologies and theoretical perspectives introduced in Introduction to Political Science and Methods and Social Science Research Methods as well as other relevant courses in the major. Prerequisite: completion of 90 credits. 3 semester hours

POLITICAL SCIENCE 398
Internship
Professional, supervised, unpaid work in an organization related to career goals. Prerequisite: Permission of advisor and School Director. 1-6 semester hours

POLITICAL SCIENCE 399
Independent Studies
This course permits the advanced political science student to undertake individual research in the area approved by the instructor. Continuous consultation with the instructor is required. Prerequisite: Permission of School Director. 1-6 semester hours

Professional Studies

PROFESSIONAL STUDIES 201
Fundamentals of Management and Leadership
This course familiarizes managers with the core tasks needed for effective financial planning and explains the budgeting process in diverse organizations. Organization, techniques, and politics of administrative planning, budget preparation and legislative appropriations, and control systems in public administration. Prerequisite: PRST 202

PROFESSIONAL STUDIES 202
Business Math
Business Math will assist students in learning to use mathematics effectively as a tool in their personal and business lives. After students complete this course, they will be able to understand the terminology used, apply basic math skills, and use common mathematical formulas to solve a variety of personal and business mathematics problems. Prerequisite: None

PROFESSIONAL STUDIES 204
Social Impact of Technology
This course is designed to critically assess the institutional forces that shape and create the demand for information technology (IT). It will also discuss how the consumption of IT impacts economy and society. The course will help participants think about how changing social and economic conditions determine what technologies are consumed and how they are consumed, who consumes them and where they are consumed. Prerequisite: None

PROFESSIONAL STUDIES 220
Analytical & Persuasive Writing
Continuing to practice the rhetorical skills introduced in ENGL 101, students will develop analytical, interpretive, and information literacy skills necessary for constructing a well-supported, researched, academic argument. Prerequisite: ENGL 101

PROFESSIONAL STUDIES 224
Critical Thinking & Writing
Develops the ability to analyze, criticize and advocate ideas. Examines relationship of language to logic, induction and deduction, facts, inferences, judgments, formal and informal fallacies of language and thought. Instructs in writing about issues of critical thinking to develop both thinking and writing skills. Prerequisite: ENGL 101

PROFESSIONAL STUDIES 260
Budgeting & Finance for Organizations
This course familiarizes managers with the core tasks needed for effective financial planning and explains the budgeting process in diverse organizations. Organization, techniques, and politics of administrative planning, budget preparation and legislative appropriations, and control systems in public administration. Prerequisite: PRST 202
Healthcare Administration

HEALTHCARE ADMINISTRATION 333
Management of Health Care Information Systems
This course examines healthcare organizations from the perspective of managing the information systems that exist within the enterprise. Identifying the clinical and healthcare delivery processes and how they relate to information systems is a main focus. The intent of the course is to identify the key issues confronting the management of healthcare information systems today, examine their causes, and develop reasonable solutions to these issues. Prerequisite: PRST 201 & MGMT 300

HEALTHCARE ADMINISTRATION 331
Law and Ethics in Health Care
This course presents an overview of the legal and ethical issues faced by healthcare consumers, practitioners, and administrators. The course will introduce students to the legal aspects of health care at the federal, state, and local levels. Topics covered will include criminal and civil claims against health care providers, corporate and individual liability, and legal and ethical decision-making. Prerequisite: PHIL 203

HEALTHCARE ADMINISTRATION 334
Healthcare Financial Management
This course is an application of financial management techniques to decision making for health care professionals. This course examines aspects of modern hospital & health care organization financial management to prepare students for supervisory and management roles. In addressing the types of financial decisions that health care executives are most likely to be involved in the course objective is to understand the underlying importance of (1) accounting information; (2) health care industry knowledge; and (3) principles of economics. Prerequisite: PRST 250

HEALTHCARE ADMINISTRATION 332
Health Care Organization & Administration
This is an introductory course on the organization, finance and delivery of health care services from a societal perspective. It examines alternatives that a society may organize, finance, and deliver health care services, and the philosophical, social, and political economic foundation underlying a health care system. It begins with examining the nature of health and health care services, and followed by reviewing the role of government and free market on health and health care services. Alternative ways of organizing and financing health care services are then explored. Among private health institutions, the focus of inquiry is on health insurance and its provision, hospitals, the role of physicians, and long-term care organizations. Finally, current issues of the U.S. health care system and possible development are also studied. While this course uses mostly examples from the U.S., experiences from other countries are also discussed where it is pertinent. Prerequisite: PRST 201 & MGMT 300

HEALTHCARE ADMINISTRATION 365
Healthcare Strategic Management
This course will introduce students to concepts, principles, and practices of strategic management in multiple healthcare settings. Case studies will be used from the health care industry as well as other business sectors to expose students to the field of organizational behavior. Students will develop their knowledge in areas including negotiation, leadership, organizational design, organizational culture, how people work in organizations, and strategy (including stakeholder and SWOT analysis, and the current approaches to the development of strategic plans). Prerequisite: HLAD 334 & 332

Human Resource Administration

HUMAN RESOURCE ADMINISTRATION 334
Training Methods
This course explores current and emerging models and theories, and practical methods to effectively connect training and learning to organizational/business goals. In this course, the student will learn how to 1) identify training and development needs through needs assessments, 2) analyze jobs and tasks to determine training and development objectives, 3) create appropriate training objectives, 4) design effective training and development programs using different techniques or methods, 5) implement a variety of different training and development activities, and 6) evaluate training and development programs. Prerequisite: MGMT 305

Organizational Leadership

ORGANIZATIONAL LEADERSHIP 341
Supervision and Team Building
The course develops management theories of planning, organizing, staffing, leading, and controlling. Emphasis will be given to the effectiveness of human relations in communication, leadership matters, and team-building concepts as it relates to the workplace. Although the course emphasizes principles and practices of first-line supervision, it also introduces concepts and skills for supervisory leadership and supervisory management needed for effective team building, program or organizational innovation, group decision-making, and mediating intra-staff conflict as well as conflict between staff and administration. Prerequisite: MGMT 300

ORGANIZATIONAL LEADERSHIP 342
Non-profit Management
This course will introduce students to strategic management issues in the nonprofit sector. The course will cover key issues in founding, leading, managing, and governing nonprofit organizations and new nonprofit ventures, including organizational mission, strategic analysis and planning, board governance, multiple constituencies, partnerships and collaborations, human resources, financial management, fundraising and resource development, and performance measurement and impact. Prerequisite: MGMT 300

ORGANIZATIONAL LEADERSHIP 350
Organizational Change and Leadership
This course offers students a comprehensive, relevant perspective on leadership and management. While the course provides grounding in important concepts, it also stresses application to professional and community settings. Students analyze concepts such as leading as an interactive process (involving the leader, the “followers”, and the situation), managing with innovation and creativity, escaping from embedded practices, and embracing new managerial principles. Prerequisite: PRST 201 & MGMT 300

ORGANIZATIONAL LEADERSHIP 351
Challenges in Leadership Seminar
This course will explore in a seminar format leadership and leadership situations. The key elements of leadership will be discussed and should facilitate the development of a coherent and consistent perspective on leadership. Prerequisite: ORLD 350

Psychology

PSYCHOLOGY 103
Introduction to Psychology
An introduction to the field of psychology, including such topics as research methods, the brain, neuronal structure and function-
Psychology

\textbf{3 semester hours}

\textbf{Lifespan Developmental Psychology}
The course will examine the theories and issues surrounding biological, cognitive and psychosocial development from birth through death. Topics will include attachment, social development, theories and theorists related to developmental change, aging, and health factors impacting each stage of development.

\textbf{3 semester hours}

\textbf{256}

\textbf{Exceptional Child}
Major categories of exceptional children, their identifying characteristics, and programs to meet their special needs. Course also includes

\textbf{3 semester hours}

\textbf{230}

\textbf{Abnormal Psychology}
The course will focus on the study of those thoughts, feelings, and behaviors that interfere with psychologically adaptive functioning. The causes and appropriate treatments of mood disorders, personality disorders, schizophrenia, adjustment reactions, and other disorders as specified in the DSM will be discussed. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

\textbf{3 semester hours}

\textbf{240}

\textbf{Social Psychology}
This course is designed to provide an overview of the field of social psychology. Learning will be accomplished through reading and discussion of the text, as well as presentation of supplemental material provided by the instructor along with in-class activities, videos and discussion. Topics will include discussion of the varying domains of research in social psychology, important studies in the field, and how it applies to academia and everyday life. Topics will include: attitudes and attitude formation, persuasion, aggression, conformity, obedience, culture, helping behaviors, attraction, self-concept, as well as discrimination and prejudice. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

\textbf{3 semester hours}

\textbf{203}

\textbf{Maturity and Aging}
This course will examine the theories and issues surrounding biological, cognitive and psychosocial development from adulthood through death and the process of dying. This course is interactive and focuses on personal experiences and reactions. Important questions about health, longevity, aging, and the dying process are explored. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

\textbf{3 semester hours}

\textbf{205}

\textbf{Lifespan Developmental Psychology}
The course will examine the theories and issues surrounding biological, cognitive, and psychosocial development from birth through death. Topics will include attachment, social development, theories and theorists related to developmental change, aging, and health factors impacting each stage of development.

\textbf{3 semester hours}

\textbf{201}

\textbf{Child Psychology}
This course will examine the theories and issues surrounding biological, cognitive and psychosocial development from conception to pubescence. Students explore experiences and values related to risk taking, friendship, peer-groups, peer-pressure, marriage, relationships, parenting, and sexuality. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

\textbf{3 semester hours}

\textbf{202}

\textbf{Adolescence}
This course will examine the theories and issues surrounding biological, cognitive and psychosocial development from pubescence to adulthood. This course is interactive with a focus on personal life experience and current social events. Can be taken concurrently with PSYC 103.

\textbf{3 semester hours}

\textbf{203}

\textbf{Maturity and Aging}
This course will examine the theories and issues surrounding biological, cognitive and psychosocial development from adulthood through death and the process of dying. This course is interactive and focuses on personal experiences and reactions. Important questions about health, longevity, aging, and the dying process are explored. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

\textbf{3 semester hours}

\textbf{205}

\textbf{Lifespan Developmental Psychology}
The course will examine the theories and issues surrounding biological, cognitive, and psychosocial development from birth through death. Topics will include attachment, social development, theories and theorists related to developmental change, aging, and health factors impacting each stage of development.

\textbf{3 semester hours}

\textbf{230}

\textbf{Abnormal Psychology}
The course will focus on the study of those thoughts, feelings, and behaviors that interfere with psychologically adaptive functioning. The causes and appropriate treatments of mood disorders, personality disorders, schizophrenia, adjustment reactions, and other disorders as specified in the DSM will be discussed. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

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\textbf{3 semester hours}

\textbf{316}

\textbf{Current Topics in Psychology}
Examination of one or more currently prominent topics in psychology, such as memory reconstruction, sexual orientation, emotional intelligence, brain plasticity, or hate crimes. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

\textbf{3 semester hours}

\textbf{321}

\textbf{Research Methods}
Students will explore and evaluate the validity of various experimental and non-experimental research strategies and gain experience collecting psychological data, in groups and individually. The course provides foundations of statistical analysis, including both descriptive and introductory inferential statistics. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

\textbf{3 semester hours}

\textbf{333}

\textbf{Exceptional Child}
Major categories of exceptional children, their identifying characteristics, and programs to meet their special needs. Course also includes
Psychology

an introduction to child psychopathology. Nature of different disorders, theories of causation, and treatment approaches such as play therapy, behavioral modification, and family therapy. Prerequisite Course: PSYC 103 with a grade of "C" or higher.

PSYCHOLOGY 345
Health Psychology
This course will explore how psychological theories are applied to behaviors associated with health. Students will examine the cognitive and behavioral processes associated with a wide range of mental and physical health activities. Theories and research from clinical, social, developmental and biological backgrounds will be discussed in regards to their application to health behaviors. Specific topics will include stress and coping, drug and alcohol use, social support, health stigmas, patient/provider interactions, pain and pain management, and disorders related to health. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 346
Animal Behavior
This course integrates the proximate and ultimate causes of behavior through survey of key concepts, theories and models in the field of Animal Behavior. Students will explore the mechanistic causes of behavior including the genetic, hormonal, neural and environmental influences on behavioral development and expression. Students will examine behaviors important to survival (such as finding food and avoiding predators) and those important to reproduction (such as selecting mates) while considering the manner in which these behaviors are shaped and constrained by ecology and evolutionary history. Students will actively examine classic theories and research in this area, and compare and contrast it with modern scientific perspectives from numerous disciplines. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 348
Psychology of Gender
This course will cover various aspects of the psychology of women such as gender stereotypes and biases, gender comparisons social situations, women and work, love relationships, women and psychological disorders, and violence against women. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 355
Sports Psychology
A study of the psychological foundations of physical activity. An overview of the psychological and mental factors that influence and are influenced by participation and performance in sports, exercise and physical activity. Included are applications of the knowledge gained through research to everyday settings. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 370
Forensic Psychology
Surveys the overall intersection of psychology and the American court system. Emphasis will be placed on issues related to clinical psychology/psychiatry in the criminal justice system such as sanity evaluation, criminal profiling and assessment of dangerousness. Students will explore how forensic psychologists have been involved in the jury selection process and have contributed to our understanding, of eyewitness testimony (limitations of memory) and the detection of deceit through the polygraph and other techniques. Finally, students will explore how professionals trained in developmental, organizational, and clinical psychology interact with the court system when they serve as “expert witnesses” in a variety of civil and probate matters. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 375
Psychology of Stigma
This course will broadly explore the psychological foundations of stigma, as well as the ramifications of being stigmatized. Theories as to why people stigmatize others, how this is justified and rationalized, and how people cope with being stigmatized will be explored. Specific topics will include racism and discrimination, social exclusion, gender and sexuality bias, stigma consciousness and self-concept, ageism, and taboo behavior. Students will integrate theories of stigma with other modern psychological principles, and will actively discuss and write on these concepts. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 376
Biological Psychology/Neuroscience
The biological mechanisms underlying human behavior will be explored. This course will focus on evolution, genetics, and the anatomy and physiology of the human brain and nervous system. How these systems are affected and impacted by sensory systems, movement, waking and sleeping, homeostasis, hormones, sexual behavior, emotions, learning, memory, and language will be discussed. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 2 – 4 semester hours

PSYCHOLOGY 381
Drug Effects and Behavior
Fundamentals of psychopharmacological research with emphasis on human drug-taking behavior will be discussed. A discussion of the various psychoactive drugs and implications of their use will occur. Prerequisite Course: PSYC 103 with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 385
Statistical Methods in Psychology
This course will provide the student with an overview of basic statistical theories and methodologies used in modern psychological research. Topics will include the theoretical basis, application, and methodologies involved in descriptive statistics, correlations, t-tests, ANOVAs and regressions. Prerequisite Course: PSYC 103 with a grade of "C" or higher and MATH 103p with a grade of "C" or higher. 3 semester hours

PSYCHOLOGY 390
Psychology Research Practicum
This course is designed to give students the opportunity and experience of assisting with empirical research in psychology, under directed mentorship of a faculty member at UB. Prior approval by that faculty member is required. Directed mentorship in a psychology laboratory outside of UB will be considered. Students will learn about the ethics involved in human research, and will assist a faculty member in their research through activities such as participant recruitment, survey administration and other forms of data collection, data entry, and empirical literature review. Students will provide a written summative overview of their experience at the end of the semester. This course is by instructor permission only, and is limited to psychology (or closely related area) majors with a minimum of sophomore standing and a 3.3 cumulative GPA. Prerequisite Course: PSYC 103 with a grade of "C" or higher.
PSYCHOLOGY 395
Senior Thesis in Psychology
Students work individually with their advisor to produce an integrative review or conduct empirical research on a specific topic within psychology. Prerequisite Course: PSYC 103 with a grade of “C” or higher.
3 semester hours

PSYCHOLOGY 398
Careers in Psychology (Internship)
This course is designed to give students practical experience applying their knowledge of psychology or psychology related principles to an actual career or work setting. Internships may take place in local businesses, mental health and crisis centers, schools, residential settings, criminal justice programs, camps, college campuses, hospitals, community centers and other related environments. Students must have a designated, qualified supervisor within the work environment. Students provide written documentation that relates their knowledge to the work setting. This course is by instructor permission only. Prerequisite Course: PSYC 103 with a grade of “C” or higher.
1-6 semester hours

PSYCHOLOGY 399
Individual Study in Psychology
An opportunity to study topics not covered in regular course offerings or to carry out an individual course of instruction. Prerequisite Course: PSYC 103 with a grade of “C” or higher.
1-6 semester hours

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Retailing

RETAILING 180
Seminar in Professional Development
Surveys retail and related career areas, entry requirements and employment opportunities. Students are provided with opportunities to develop pertinent retailing related resumes, professional portfolios and interview techniques, as well as letters of application. Detailed study of the current job market and business ethics are also included.
3 semester hours
Offered: Alternating semesters annually

RETAILING 201
Retail Advertising and Fashion Promotion
Principles and methods of advertising and promotion for producers, manufactures and retailers with emphasis on the retailers most often used media — the newspaper. Varying advertising approaches of the mass merchandiser, the prestigious department store and the specialty store are included. Additionally, students work on individual or group assignments in special events planning, visual merchandising, direct marketing, publicity, newspaper and magazine advertising. The role of the retail buyer and product developer in the advertising function in the planning and budgeting of ads is also included.
3 semester hours
Offered: Alternating semesters annually

RETAILING 202
Retailing 205
Offered: Alternating semesters annually

RETAILING 203
Fashion and Retail Buying I
The study of buying theory and techniques for department stores and specialty retailers. Analyzes the buying function and examines how buyers’ responsibilities vary in different types of merchandising organizations. Study of the principles, procedures, and techniques practiced by merchandisers of fashion goods in determining resources to select, and assortments to buy includes private label development.
3 semester hours
Offered: Alternating semesters annually

RETAILING 205
Textiles I
Basic concepts of textiles dealing with fibers, yarns and methods of fabric construction. Speciﬁc laboratory assignments devoted to natural and synthetic fiber identiﬁcation and testing. $50 lab fee.
3 semester hours
Offered: Alternating semesters annually

RETAILING 206
Textiles II
Continuation of textile concepts including the study of ﬁlms, foams, laminated fabrics, ﬁber webs, knitted constructions, knotted fabrics, laces and flocked fabrics. In depth study of aesthetic and functional fabric ﬁnishes with emphasis on speciﬁc needs of the clothing and home furnishings industries. Laboratory work applies industry testing standards to individual fabrics. Woven, knitted, and applied fabric patterns are explored using a variety of mediums including CAD, CAM software. Students are responsible for submitting testing results and aesthetic development projects in addition to preparing sample books of commercially produced designs and functional ﬁnishes. Prerequisite: RETL 205. $50 laboratory fee.
3 semester hours
Offered: Alternating semesters annually

RETAILING 207
Strategies of Selling
Development of professional selling techniques necessary for efficiency and success in all phases of retailing and wholesaling. Expertise in a retail product line is developed through a product research project.
3 semester hours
Offered: Alternating semesters annually

RETAILING 280
Industry Internship
Paid work experience in a faculty-approved retail organization. Six week full-time on-the-job assignment combined with written research into corporate structure and marketing strategy. Holiday selling season of sophomore year. Prerequisite: 2.5 Q.P.R. Student must maintain 2.5 Q.P.R. during the internship semester. Fashion Merchandising and Retailing majors only.
3 semester hours
Offered: Alternating semesters annually

RETAILING 300
Mass Merchandising and Marketing
An analytical study of national and multi-national mass merchandising organizations that include origin, concepts, operations, technology, and profitability. Comparison of in-store mass merchandisers and non-store catalog retailers, on-air merchandisers, and on-line marketers. Students research one in-store and one non-store mass merchandiser of their choice in depth. Students prepare a catalog, an on-air, and an e-tailing presentation using a mass market approach. Students utilize “CATALOG,” “STORY-BOARD,” software to prepare presentations. Students explore the benefits of social media on the mass market. Prerequisites: RETL
201, RETL 204, RETL 207 and RETL 213; open to juniors and seniors only.

3 semester hours
Offered: Alternating semesters annually

RETAILING 304
Fashion and Retail Buying II
Inventory and stock control procedures, analysis of consumer demand in the buying and marketing of fashion products. Six month budget planning of sales, goods, and promotional activities. Spreadsheets and computer applications are used to plan, analyze, and adjust retailing activities by revisions in quantities and merchandise assortments. Practice in buying from a variety of domestic and international resources. Prerequisites: RETL 102 with a grade of “C” or better and RETL 203.

3 semester hours
Offered: Alternating semesters annually

RETAILING 307
Surface Design I
Introduction to the business of Textile Surface Design. Course focus is on applied surface designs using natural and geometric motifs as they apply in a variety of fashion markets including infant's and children's, women's, men's, domestics and paper goods. Students research current market design and color trends. Using classic, modern, or ethnic motif students work with layout, repeat size and color ways. Students develop their own collection libraries in paper and disc formats. Students design applied patterns and alternative color ways using “DESIGN and REPEAT” and “EASY COLORING” CAD/CAM software. Students prepare portfolios of their best designs. Open to juniors and seniors only. Prerequisites: RETL 205, RETL 206, Design 103. $50.00 lab fee.

3 semester hours
Offered: Alternating semesters annually

RETAILING 313
Organizational Management
A study of the management decisions faced by the retail executive in today’s marketplace. Topics include locations, retail store layout, security, the customer service mix, retail credit arrangements and their cost-benefit relationships. Human resource concerns include recruitment, personnel changes, retraining and layoffs; employee benefits and their impact on both morale and budgets. Students research in-depth one of the top international retailers for practical solutions to a profitable retail environment. Prerequisite: Retailing 201, and Marketing 305; junior and seniors majors only.

May not be taken same semester as Fashion Merchandising 270.

3 semester hours
Offered: Alternating semesters annually

RETAILING 330
International Fashion Marketing/Product Development
An examination of international trade for textile and apparel industries. This course studies supporting agencies, foreign manufacturing, distribution, financing, transportation, tariffs and customs regulation. The student will be required to research exporting and importing a product and to prepare both a written and oral presentation. Prerequisites: RETL 205 and RETL 206.

3 semester hours
Offered: Alternating semesters annually

RETAILING 396
Internship Experience
Field study of an organization in action, Students participate in an internship experience at an outside organization in the Fashion or Retail Industries. Students receive a performance evaluation from their supervisor in that organization and from an FM faculty evaluator who will visit the internship site periodically during the term. Students submit a paper with an analysis of their experiential learning. Offered: Every semester

3 semester hours
Offered: Alternating semesters annually

RETAILING 399
Independent Study in Fashion Merchandising, Textiles or Related Retailing Techniques
Independent study in fashion merchandising, textiles or related retailing techniques. Prerequisite: B.S. Degree Fashion Merchandising and Retailing seniors only; permission of chair. A three-credit internship is possible which combines one-credit of work experience with two-credits of independent research.

1-3 credits
Offered: Alternating semesters annually

RUSSIAN 102
Elementary Russian II
This course builds on the foundations laid in Russian 101 and continues to introduce students to Russian language and culture. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course students are expected to reach a beginner level of Russian language proficiency and should be able to understand/identify familiar vocabulary and conversation topics; engage in a conversation in a target language on a familiar topic; express opinions/feelings about a familiar topic; read short simple sentences. Prerequisite: Russian 101.

3 semester hours

RUSSIAN 103
Intermediate Russian I
This course builds on the foundations laid in Russian 101 and Russian 102 and provides an opportunity to improve Russian language proficiency beyond the beginner level. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. Prerequisite: Russian 102.

3 semester hours

RUSSIAN 104
Intermediate Russian II
This course builds on the foundations laid in Russian 103. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Russian language proficiency and should be able to understand/identify a range of vocabulary items and topics; engage in a conversation in a target language on a range of topics; express opinions/feelings about a range of topics; read and comprehend...
Science

SCIENCE 107
Environmental Conservation
A module driven lecture and laboratory course that will introduce students to important ecological issues and conservation efforts. We will mix lecture with engaging discussions and hands-on lab work in a hybrid format that will explore climate change, pollution, extinction, and other “hot topics” impacting our ecology today. Students will have the opportunity to review lecture material with module based videos and supplement their knowledge by reading news and research articles. Our laboratory experience will culminate in a group research project exploring the impact of various pollutants on the growth of plants over several laboratory sessions.
2 lecture periods; 1 two-hour laboratory; 3 semester hours

SCIENCE C101
Our Environment: The Earth
The scientific examination of our planet focusing on the interaction of astronomy, biology, chemistry, geology, and physics, in the formation, evolution, and dynamics of the Earth. Lab fee assessed.
Offered: Spring/Summer/Fall
2 lecture periods; 1 two-hour laboratory; 3 semester hours

SCIENCE C102
Humans and the Environment
A scientific examination of the human organism and the interactions between humans and the environment as they affect not only humans but also the health and viability of home planet Earth. Lab fee assessed.
2 lecture periods; 1 two-hour laboratory; 3 semester hours

SCIENCE C106
Microbes in Our World
A course designed to provide the student with an understanding of the role of microbes in our lives, and their real and alleged effects on the environment. Emphasis is placed on both the beneficial and the detrimental effects of microbes on humans and the environment. Lab fee assessed.
2 lecture periods; 1 two-hour laboratory; 3 semester hours

Social Sciences

SOCIAL SCIENCES 201
Introduction to the Social Sciences I
A survey of the development of the social sciences, how they were shaped by historical forces, and their role in understanding society. The emergence of economics, anthropology, sociology, psychology, and political science from social philosophy. Prerequisite: ENGL C101 or department permission. A Core Heritage Course.
3 semester hours

SOCIAL SCIENCES 207
World Regional Geography
A survey of world physical and human geographic patterns. Each world region will be analyzed in terms of its environment and resource distributions, agricultural systems and rural development, population growth and characteristics, and patterns of urbanization and industrial growth. Considerable emphasis will be placed on the non-Western world, issues of sustainable development, and the changing nature of geography. Students will be required to write one research paper on a particular world region of their choice.
3 semester hours

SOCIAL SCIENCES 299
Internship
Professional, supervised, unpaid work in an organization related to career goals. Prerequisite: Permission of advisor and School Director.
1-6 semester hours

SOCIAL SCIENCES 399
Independent Study
For the student who wishes to specialize in ad-
Sociology

SOCIOLOGY 101
Principles of Sociology
Offered: Fall and Spring
3 semester hours

SOCIOLOGY 102
Sociology of Social Problems
Analysis of major problems in modern society; existing methods for dealing with these problems.
3 semester hours

SOCIOLOGY 118
Introduction to Criminal Justice
This course is intended to introduce you to the field of criminal justice and criminology. More specifically, we will explore how the American criminal justice system interacts with society and react to societal issues. In turn this will help us understand how society functions in response to the criminal justice system.
3 semester hours

SOCIOLOGY 204
Marriage and the Family
Courtship, marriage patterns, social sexual adjustment. Social interaction within the family. The family and society.
3 semester hours

SOCIOLOGY 231
Cultural Anthropology
Origins and growth of culture. Pattern of culture as related to personality and social structure. Comparative cultures. Prerequisite: SOC 101 or 102; minimum grade C.
3 semester hours

SOCIOLOGY 270
Sociology of Deviance
Specialization into deviance; social typing; deviant subcultures; deviant identity; accommodation to deviance; public and informal regulation of deviance; treatment approaches to deviance; theoretical frameworks. Implications for policy-making. Prerequisite: CJHS 118 or SOC 118; minimum grade C.
3 semester hours

SOCIOLOGY 299
Selected Topics in Sociology
A course with variable topic focus; dependent upon student needs and the expertise of the instructor.
3 semester hours

SOCIOLOGY 305
Social Psychology
Prerequisite: PSYC 305.
3 semester hours

SOCIOLOGY 310
Race and Ethnicity
Racial and ethnic stratification; causes and consequences of prejudice and discrimination; problems of assimilation and pluralism; racial and ethnic conflict in the U.S. and in other societies.
3 semester hours

SOCIOLOGY 311
Juvenile Delinquency
Analysis of delinquency causation, methods of treating delinquents, juvenile court procedures, interrelationship of police and youth, and problems of prevention. Prerequisite: CJHS/SOC 118 or SOC 101 or SOC 204.
3 semester hours

SOCIOLOGY 315
Criminology
A critical examination of the conditions under which crime and delinquency occur. Theories of crime and punishment. Treatment of offenders. Prerequisite: CJHS/SOC 118; minimum grade C.
3 semester hours

SOCIOLOGY 316
White Collar Crime
3 semester hours

SOCIOLOGY 348
Religion & Society
A sociological and anthropological analysis of religion as a universal social institution, with emphasis upon theories of the origins of religion, relationships of religion to other social institutions, study of selected Western and non-Western religions in their socio-cultural contexts, religion as a source of social equilibrium and conflict, types of religious movements.
3 semester hours

SOCIOLOGY 355
Globalization
This course examines the phenomenon of globalization as an economic, political, and cultural reality. The focus of lecture and discussion will arise through consideration of treatment of the issue by current social theorists: e.g., Roland Robertson, Peter Berger, Immanuel Wallerstein, Mike Featherstone, Thomas Friedman. Critics of globalization will also be read and considered: e.g., Lourdes Beneira, John Cavanaugh, Joseph Stiglitz.
3 semester hours

Spanish

SPANISH 101
Elementary Spanish I
In this course students are introduced to the Spanish language and culture of Spanish-speaking countries. Basic skills in speaking, listening, reading, and writing are developed. Cultural readings and videos are included in each lesson giving the students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. This is a course for students with little or no knowledge of Spanish language.
3 semester hours

SPANISH 102
Elementary Spanish II
This course builds on the foundations laid in Spanish 101 and continues to introduce students to the Spanish language and culture of Spanish-speaking countries. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary
and grammar in a classroom conversation. By the end of this course students are expected to reach a beginner level of Spanish language proficiency and should be able to understand/identify familiar vocabulary and conversation topics; engage in a conversation in a target language on a familiar topic; express opinions/feelings about a familiar topic; read and comprehend short simple texts; write short simple sentences. Prerequisite: Spanish 101.

3 semester hours

SPANISH 103
Intermediate Spanish I

This course builds on the foundations laid in Spanish 101 and Spanish 102 and provides an opportunity to improve Spanish language proficiency beyond the beginner level. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. Prerequisite: Spanish 102.

3 semester hours

SPANISH 104
Intermediate Spanish II

This course builds on the foundations laid in Spanish 103. Skills in speaking, listening, reading, and writing are further developed. Cultural readings and videos are included in each lesson giving students additional opportunities to utilize target vocabulary and grammar in a classroom conversation. By the end of this course the students are expected to reach an intermediate level of Spanish language proficiency and should be able to understand/identify a range of vocabulary items and topics; engage in a conversation in a target language on a range of topics; express opinions/feelings about a range of topics; read and comprehend medium length texts; write medium complexity sentences. Prerequisite: Spanish 103.

3 semester hours

Theatre

THEATRE 103
Introduction to Theatre

The art of the theatre: its literature, structure and aesthetics. Explanation of how each of the elements of theatre - acting, directing, design, playwriting, dramaturgy, and theatre spaces - contribute to the creation of the total production.

3 semester hours.

THEATRE 107
Movement for Theatre I

Basics of movement for the stage, focusing on posture, flexibility and strength, as well as expressive use of the body.

3 semester hours.

THEATRE 108
Voice and Diction for the Stage

An introduction to basic techniques of voice, speech and diction. Development of a more vibrant and expressive speaking voice through fundamentals of breath, posture, and vocal tract development. Introduction to the International Phonetic Alphabet as a path to correct English pronunciation and easier acquisition of dialects. Body-voice exercises to free body, voice, and breath.

3 semester hours.

THEATRE 109
Scene Study

The creative process by which an actor constructs an interpretation are studied in theory and pursued in practice with heavy emphasis on scene work. Repeatable for credit.

3 semester hours.

THEATRE 299
Special Topics

Seminar focused on a particular area of dramatic literature. Fulfills the Fine Arts requirement. Repeatable for credit.

3 semester hours.

World Religion

WORLD RELIGION 101
Introduction to Religions

This course introduces students to all major world religions. Religions considered include: Native American oral traditions, Shintoism, Hinduism, Buddhism, Sikhism, Jainism, Taoism, Confucianism, Judaism, Christianity, Islam and Bahá’í. Some attention is given to primary religious texts.

3 semester hours

WORLD RELIGION 102
Introduction to Eastern Religions

This course offers students a comparative and historical introduction to Hinduism, Buddhism, Confucianism, and Taoism. Attention is given to primary texts and rituals, historical and doctrinal development, socio-cultural setting and political impact.

3 semester hours

WORLD RELIGION 103
Introduction to Western Religions

This course offers students a comparative and historical introduction to Judaism, Christianity, and Islam. Attention is given to primary texts and rituals, historical and doctrinal development, socio-cultural setting and political impact.

3 semester hours

WORLD RELIGION 201
Hinduism

This course introduces students to the major textual, practical, communal, doctrinal, and philosophical features of Hinduism. Special attention is given to Hindu mythology, the Upanishads, and the Bhagavad-Gita.

3 semester hours
World Religion

WORLD RELIGION 205
Buddhism
This course introduces students to the major textual, practical, communal, doctrinal, and philosophical features of Buddhism. Special attention is given to the relationships between Theravada, Mahayana, and Tantric texts.
3 semester hours

WORLD RELIGION 207
Judaism
This course introduces students to the major textual, practical, communal, doctrinal, and philosophical features of Judaism. Special attention is given to the Hebrew Bible (Tanakh) and the Holocaust. Differences among contemporary forms of Judaism (Orthodox, Reform, Conservative, and Reconstructionist) are studied in some detail.
3 semester hours

WORLD RELIGION 208
Early Christianity
This course introduces students to the major textual, practical, communal, doctrinal, and philosophical features of Christianity. Special attention is given to the New Testament. Differences among contemporary forms of Christian community (Roman Catholicism, Orthodoxy, and Protestantism) are studied in some detail.
3 semester hours

WORLD RELIGION 209
Introduction to Islam
This course aims to investigate the historical development of Islam in terms of its beliefs and practices as well as the society and culture that has arisen with it. Ultimately, students should come to understand both the faith itself and the relationship of believers to the world in which they live today. Students will acquire this knowledge through a series of readings and some videos. They will have the opportunity to develop critical thinking skills and show what they have learned by way of writing assignments, discussion boards, and a final project. Special attention is given to primary texts.
3 semester hours

WORLD RELIGION 211
Protestantism
This course addresses the history and the reasons for the rise of Protestantism in Europe in the 16th century. It considers the authority and the role of the Roman Church at the time and looks at how Protestantism gained a foothold in Europe and beyond. By the end of the course, students will be able to: Identify major historical threads which gave rise of European Protestantism; Identify and explain the differences in thought between John Calvin, Martin Luther, Thomas Cranmer, as well as others who came to shape Protestantism in Europe; Describe how Protestantism has come to influence and shape elements of life in our time such as economics, politics, feminism, spirituality, and missions; and Identify the role Protestantism has played in Biblical Science.
3 semester hours

WORLD RELIGION 216/PHILOSOPHY 216
Philosophy of World Religions
A comparison and analysis of the philosophical foundations of some of the world’s major religions. Among the religions studied are: Judaism, Christianity, Islam, Hinduism, Buddhism, and Confucianism.
3 semester hours

WORLD RELIGION 221
Religion and Fiction
An introduction to religion and literature, this course will examine ways in which works of fiction (both secular and more overtly religious narratives) address issues that are intrinsically religious, such as: the relation between human spirit and human nature, the presence of evil and suffering, the need for meaning and personal and communal fulfillment.
3 semester hours

WORLD RELIGION 222
Confucianism
An examination of the major figures, texts, and ideas of Confucianism. Attention is given to social setting and political influence.
3 semester hours

WORLD RELIGION 230
Taoism
An examination of the major figures, texts, and ideas of Taoism. Attention is given to the dialogue with Confucianism.
3 semester hours

WORLD RELIGION 254
Religion and Science
Do science and religion belong to completely separate realms? Can they benefit each other? Will religious conflicts fade as scientific reason sweeps away the cobwebs of bias and superstition? Or will science run out of control without the guidance of religiously inspired ethics? In grappling with such controversial questions, this course examines historical and modern approaches to the relationship between science and religion. Based on a typology, which classifies such approaches as tending towards “conflict,” “independence,” “dialogue,” and “integration,” we will examine the work of both religious and scientific thinkers who exemplify these trends or challenge the status quo.
3 semester hours

WORLD RELIGION 273
Global Christianity
Themes of the course include the reasons for the success or failure of Christianity in different contexts; the relationship between religious expansion and the fate of empires; the role of globalization; the impact of culture on belief, practice, and theology; and the changing relationships between the great world faiths.
3 semester hours

WORLD RELIGION 274
Islamic World
This course aims to investigate the historical development of Islamic societies and cultures globally.
3 semester hours

WORLD RELIGION 275
Religion, Conflict Analysis and Mediation
This course examines economic, political, and cultural aspects of religious conflict, and proposes a theory for conflict mediation that entails recognizing the key role played by religious institutions and ‘cultural rationality’ within society. Models of conflict mediation (Augusberger’s Conflict mediation Across Cultures; Avruch’s Culture & Conflict Resolution; Said’s Peace and Conflict Resolution in Islam; Shrock-Shenk, Making Peace with Conflict: Practical Skills for Conflict Transformation) are studied. These theories are practiced in case studies and class models. The relationship of interreligious and conflict mediation is considered.
3 semester hours

WORLD RELIGION 278
Religion, Peace, and War
This course will explore the contributions of several world religions (typically a combination of Western and Eastern religions; e.g. Buddhism and Islam; Judaism and Hinduism) to issues of peace and war. Topics may include just war theory, pacifism, non-violent forms of resistance, jihad, and ahimsa. Topics will also be situated within historically significant experiences of the various religions (e.g. con-
World Religion

sideration of Buddhism in Sri Lanka; the Israeli / Palestinian question.

3 semester hours

WORLD RELIGION 288
Internet Religion
This course examines the impact of the internet on classical religious forms (ideas, practices). In a lab component, we explore whether religious ideas and practices undergo mutation when they are expressed virtually. We set the stage for this topic by examining Religions and the Silk Road, which sets forth the dynamic nature of religious change in the ancient world. Topics include: the nature of change within religious communities; social dimensions of belief and faith-oriented practice; solitary and virtual modes of religious experience; human nature and internet; addiction to virtually; connectivity, self-experience, and orthodoxy.

3 semester hours

WORLD RELIGION 301
World Religious Literature
A Study of primary source readings in world religious literature. Attention is also given to critical research methods. In the course we will read from the Upanishads, Bhagavad-Gita, Dhammapada, Koran, Tanakh, New Testament, and the Analects.

3 semester hours

WORLD RELIGION 305
Comparative Religious Ethics
A comparative study of Hindu, Buddhist, Christian, and Islamic accounts of human rights, ecology, family, violence, and economy. The possibility of developing a universal ethic is considered. Topics vary from semester to semester.

3 semester hours

WORLD RELIGION 312
Religion and Film
This seminar offers an introduction to the study of film and religion. We do not seek to understand how film and religion simply intersect in the medium of visual aesthetics, but how film could perform a religious worldview with distinct set of practices. This class, therefore, serves as a way to understand cinema as representing a religiosity in its own right, and a way of being in the world.

3 semester hours

WORLD RELIGION 345
Calvinism and American Literature
This course studies the extent of Calvinist cultural penetration of American civilization and examines the specific literary evidence linking seventeenth century Puritanism the primary vehicle of Calvinist thought in America and later manifestations of Calvinism in eighteenth and nineteenth century culture. All reading in the course will be in works of intrinsic literary merit.

3 semester hours

WORLD RELIGION 348/SOCIOLOGY 348
Religion and Society
A sociological and anthropological analysis of religion as a universal social institution, with emphasis upon theories of the origins of religion, relationships of religion to other social institutions, study of selected Western and non-Western religions in their socio-cultural contexts, religion as a source of social equilibrium and conflict, and types of religious movements.

3 semester hours

WORLD RELIGION 353
Seminar in American Literature and Civilization
This course is intended to provide a basic familiarity with one of the first and still most significant genres in popular American literature. A study of the origins and formal traditions of the sermon in various American religious cultures will enable students to experience American civilization from a most intimate and yet social perspective, that of communal worship.

3 semester hours

WORLD RELIGION 366
Psychology and Religion
Both psychology and religion address, in distinct ways, questions about ultimate concerns: love, desire, identity, purpose, and meaning in human life, and how our humanity develops and finds expression in relation to self, others, and the sacred. In this course, we will explore the ways in which psychological and religious experience are interrelated on both the individual and collective levels. Issues to be explored include the Unconscious, faith development, God-images, the body, the psychological power of religious symbols, the difference between submission and surrender, and prayer.

3 semester hours

WORLD RELIGION 373
Islam and Democracy
This course aims to address the following questions: Are Islam and democracy compatible? How is religious interest defined? What are Islamic images and institutions used? What is the historical relationship between Islam and politics? When and under what conditions is Islam publicized and politicized? Is Islam compatible with modernity? Is it possible to be modern and Muslim at the same time? How do Islamic scholars deal with the questions of “difference”, democracy, and science? The major task of this course will be to assess how religion makes an impact on politics, state and society and in turn is impacted upon and potentially transformed by society, politics and the state. Instructor’s permission may be required for this course.

3 semester hours

WORLD RELIGION 374
Religion and Politics in the Middle East
This course examines the intersection of religion and politics in the current landscape of the societies of the Middle East. While the West has emphasized separation of church and state, numerous nations and political parties in the Middle East emphasize the relationship between the two and the guiding role that religion is meant to play in political decision making. This course also examines the impact that secularization has had upon religion in the Middle East and it notes how this has played a key role in the development of Islamic militarism and the strengthening of some of the religiously based political parties of the region. Instructor’s permission may be required for this course.

3 semester hours

WORLD RELIGION 395
Senior Thesis Seminar
Instructor’s permission may be required for this course. Prerequisites: Senior standing, world religions major. Introduction to and preparation of a senior research thesis.

3-6 semester hours

WORLD RELIGION 398
Internship
Professional, supervised, work in an organization related to career goals. Prerequisite: Permission of advisor and School Director.

1-6 semester hours
World Religion

WORLD RELIGION 399

Independent Study
A course with variable topical foci, dependent upon student request and the expertise of the instructor. Student will work independently to acquire specified and approved research projects and readings under the supervision of a faculty member.

1-6 semester hours