The course descriptions which follow are listed alphabetical order by their three-letter prefixes. Courses are not necessarily offered every semester. The College reserves the right to cancel any course if the enrollment falls below a predetermined minimum level or for other reasons at the discretion of the Vice President for Academic and Student Affairs.

Course Prefixes

ANT=Anthropology
ART=Art
BUS=Business
CAR=Residential Carpentry
CEL=Residential Electrical
COM=Communication and Media Arts
CPT=Computing
CRJ=Criminal Justice
CUL=Culinary
DEN=Developmental English
DMA=Developmental Math
DOR=Operation Rebound
ECE=Early Childhood Education
ECO=Economics
EDU=Education
EMG=Emergency Management
ENG=English
FIR=Fire Protection Technology
FLA=Foreign Language
GEO=Geography
GRB=Green Building Management
HIS=History
HON=Honors
HUM=Humanities
IAS=Freshman Seminar
MAT=Mathematics
MED=Medical
MHA=Mental Health
MUS=Music
NUR=Nursing
PED=Physical Education
PHB=Public Health
PHO=Photography
PLA=Legal
POL=Political Science
PSY=Psychology
REL=Recreation and Leisure
RES=Respiratory Care
SCI=Science
SOC=Sociology
SUR=Surveying
THE=Theater
WTT=Wind Turbine Technology
Please Note: The following courses are only offered in the spring semester:

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<tr>
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Please Note: The following courses are only offered in the fall semester:

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<td>EDU 2203</td>
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<td>SCI 2120</td>
<td>SpTp: A&amp;P Human Performance I</td>
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<td>MHA 1510</td>
<td>Introduction to Human Services</td>
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</table>
ANT 1102 Cultural Anthropology, 3 credits, GE 3, GE 6
This course introduces the student to the great variety in human social life and customs throughout the world. Ways of classifying societies and analyzing cultural diversity are described and applied and questions of how individual life and personality are affected by living under these diverse forms are discussed.

ANT 2060 Cultural Paradigms in Health Care, 3 credits
Students examine culture through a self-assessment and experiential learning approach. An organizing framework drawn from cultural anthropology is used to understand how different groups respond to universal questions regarding human nature, time, natural environment, valued personality traits, and preferred ways of interacting. Students use this data to examine how ethnic/cultural background influences attitudes towards health and illness, the health care provider, and the health care system. Crosslisted with HUM 2060 and NUR 2060.

ART 1001 Drawing I, 3 credits, GE 8
Students explore and develop basic skills in the following areas: form and proportion, light and shade, perspective, still life, and gesture drawing in various media. Students enhance and develop their ability to render objects dramatically, while developing their own personal style.

ART 1002 Childhood Art, 3 credits, GE 8
Students are introduced to the creativity and aesthetics inherent in the art of children. Through hands-on experiences, students explore various forms of artistic expression and the creative processes appropriate for children. Students also have the opportunity to research and build a resource file of age-appropriate art activities for children. Crosslisted with EDU 1002, Childhood Art.

ART 1205 Design & Color, 3 credits, GE 8
Students are introduced to the principles of design on the 2D surface including movement, relationships, tension, order, and rhythm. Students create visual solutions with clarity, reason, and drama through layouts and computer experimentation, the study of color and typography, and the culmination of all design principles and elements.

ART 1310 Advertising Design, 3 credits
This is an intensive problem-solving class with the emphasis on conceptual thinking and development of a professional attitude. Critical thinking provides a foundation in strategy, concept, and design. The class incorporates actual advertising design projects and focuses on the design and structure of the printed page. Using computers, students study the creation and use of grids and other layout devices to explore the integration of typography and visual elements. Prerequisite: ART 2610 Computer Graphics II

ART 1601 Typography, 3 credits
Students are introduced to the study of the style, arrangement, and appearance of design in typography. The course covers a wide range of technical processes and design elements with assignments that define typography’s symbolic and communicative aspects. Both the visual concerns and functional principles are explored through the use of the computer. Prerequisite: ART 1610 Computer Graphics I

ART 1610 Computer Graphics I, 3 credits
This course serves as an introduction to the use of the computer in the graphic arts. Students learn how to create and modify art using image editing, drawing, and publishing programs. Students also learn the relationships between software programs.

ART 2001 Drawing II, 3 credits
Students explore the aspects of drawing as illustration for advertising and graphic design: pen and ink illustration, marker and color pencil renderings, as well as editorial, conceptual, layout, and line art illustration. Students also create original illustrations and tight conceptual studies in order to develop the ability to quickly and clearly relate ideas visually. Prerequisite: ART 1001 Drawing I

ART 2308 Creative Visualization, 3 credits, GE 8
Most people think of creativity as something you’re born with when, in reality, creativity is a gift that we all possess and need only nurture and develop. Taking chances and opening up to alternative viewpoints enhances creativity and, in turn, effectiveness in both professional and personal aspects of life. Through discussion, group brainstorming, looking at specific problems from as many viewpoints as possible and learning to produce as many ideas as possible, the application of individual creative flow are cultivated unleashed in new and relevant ways.
ART 2311 Graphic Design Workshop, 3 credits
This course combines studio, computer work with classroom instruction. Components of design theory are incorporated with problem definition to provide students with experience in concepts, execution and presentation of assignments. Students are expected to use creative thinking to solve communication problems. Lecture and visual media provide a broad introduction to professional possibilities. Prerequisite: ART 2610 Computer Graphics II

ART 2610 Computer Graphics II, 3 credits
Design projects require the in-depth use of software programs introduced in Computer Graphics I. Special emphasis is placed on the integration of software packages and the preparation of files for final output to various sources. Prerequisite: ART 1001 Drawing I

ART 2620 Digital Animation, 3 credits
This is an intensive course involving 3D modeling and 2D and 3D animation. The concepts of timing, keyframing, tweening and movement are explored. Students learn methods of creating efficient 3D models using different modeling and animation software packages. The process of animation from story development through storyboard and pencil sketches to final rendering and editing are included. Emphasis is placed on students developing their own creative visions. Prerequisites: ART 1001 Drawing I, ART 1205 Design and Color, ART 1610 Computer Graphics I, ART 2610 Computer Graphics II, or permission of the instructor.

ART 2630 Graphic Design, 3 credits
Students develop visual awareness which requires refinement of design and appropriateness of format and typography in relation to concept and specific target audiences. The student creates advertising through the study of the creative process, idea generation, understanding and evaluating information, applying research, and creating powerful communication idea-driven solutions. Students explore the computer environment as well as the traditional mediums and are encouraged to use their conceptual and analytical thinking skills. Overview, refinement and presentation of a final portfolio are a requirement of this course. Prerequisite: ART 2311 Graphic Design Workshop

ART 2710 Computer Graphics III, 3 credits
This course provides an introduction to industry-standard computer programs and techniques used in the production of portable (disk and other portable media) and web-based multimedia. Students learn 2-D and 3-D animation, digital video editing, digital sound editing, interactive design, interactive authoring, and world wide web design. Prerequisite: ART 2610 Computer Graphics II

ART 2711 SpTp: Computer Graphics Marketing, 3 credits
This course will further the student’s knowledge of graphic design and marketing strategies. Local businesses looking for design work will be the core of the course work. Prerequisite: ART 2710 Computer Graphics III

ART 2720 Digital Web Media, 3 credits
This course is an introduction to industry-standard programs and techniques used in the production of portable and web-based media. Subject areas covered are: basic Hyper Text Markup Language (HTML), utilization of web-compatible audio and video files, computer graphics, digital photographs, animation, and electronic interactive design. Students also learn procedures to upload media to servers. Prerequisite: ART 2710 Computer Graphics III

BUS 1101 Business Mathematics, 3 credits
This course covers the mathematics used in everyday business and accounting. Among the topics included are: fractions and decimals, the use of algebraic equations, percents and their applications, sales and trade discounts, markup, payroll, checking accounts, simple and compound interest, discounting of notes, present value, taxes, and business statistics. Students who place into and pass Basic Arithmetic DMA 0902 are not required to take Basic Algebra DMA 0995 before enrolling in BUS 1101. A grade of C or better in BUS 1101 will meet Math Competency.

BUS 1103 Introduction to Hospitality and Tourism, 3 credits
In this course, students study the growth and development of the hospitality and tourism industry. Topics include hotels, restaurants, major transportation companies, sustainable tourism, and various areas of industry specialization.

BUS 1125 Business Communications, 3 credits
Students use word processing software to learn how to write effective business letters, including sales letters, credit letters, collection letters, adjustment letters, letters of application and resumes, and the preparation of problem-solving business reports.
BUS 1223 SpTp: Keyboarding Skills, 1 credit
This course will develop touch keyboarding skills involving the input of alphabetic, numeric (10 key pad), and symbol information on a keyboard. Basic understanding of the vocabulary and concepts used in keyboarding operations for inputting and retrieving information will be developed.

BUS 1298 Word Processing for Personal Use, 3 credits
Students learn to use a popular word processing software package to create and edit letters, reports, and term papers while using correct keying techniques.

BUS 1301 Principles of Marketing, 3 credit hours
This course is an introduction to the complex marketing process, its functions, institutions and activities. Students complete a comprehensive survey of the marketing mix, consumer behavior, channels of distribution, marketing methods, policies, and organization.

BUS 1302 Principles of Advertising, 3 credits
This course provides an overview of the basics of advertising and its relationship to the field of marketing. Students explore advertising history, the various media, government control, research and trademarks.

BUS 1304 Principles of Sales, 3 credits
The basic principles of sales theory are explored in both retail and industrial applications. This course also draws heavily from the behavioral sciences, especially psychology and sociology. Areas covered include the role of selling in the American economy, consumer motivations, planning an effective sales presentation and the introduction to the field of sales management.

BUS 1310 Principles of Management, 3 credits
This course covers principles of managerial practice. The concepts center on an analysis of the four major functions of management: planning, organizing, leading and controlling. This course examines the integration of management principles with other business procedures. Topics include business ownership, organizational structure, human relations, marketing and finance.

BUS 1341 Entrepreneurship, 3 credits
Students are introduced to the processes for creating a successful business plan. Students will use entrepreneurial discovery processes, assess opportunities for venture creation, explore e-business principles, and develop presentation skills necessary to convince others of the potential success of the business venture.

BUS 1402 Fundamentals of Accounting, 3 credits
This course provides an introduction to accounting practice and theory using the model of the sole proprietorship. The accounting process for recording, summarizing and reporting financial data is analyzed. Topics include the preparation and use of financial statements, the accounting cycle for service and merchandising enterprises and the valuation of assets. Students explore the practical aspects of accounting.

BUS 1416 Financial Accounting, 4 credits
This course covers the role of accounting in the decision-making process and the application of current generally accepted accounting principles for measuring and communicating financial data about a business enterprise to external parties. Topics include preparation and use of financial statements, analysis and recording of business transactions, the accounting cycle for service and merchandising enterprises, accrued and deferred items, organization and financing of corporations, and other theoretical and practical aspects of financial accounting.

BUS 1501 Business Law I, 3 credits
The first part of this course concerns the legal environment within which business must function. The structure of existing US laws and court systems and the legal processes by which laws are made and applied to actual controversies are explored. The balance of the course is devoted to the subject of contract law and covers aspects of the rights and responsibilities of the parties to a contract. Throughout the course, students survey current business law topics as they occur in the business world.

BUS 1600 Sustainable Campus and Business Operations, 3 credits
In this course, students explore the frameworks, technologies, and methods for enhancing campus and business sustainability. Topics include sustainability strategies for water, energy, building design and operation, groundskeeping, purchasing, waste reduction and diversion, and community engagement and education. The college and the broader community are used as a case study and field site for the study of these topics. Crosslisted with SUS 1600.
BUS 1630 Transformational Leadership, 3 credits
In this course, students explore theories and practices related to transformational leadership and social change, specifically in the context of innovation and adaptation for sustainability. Students learn strategies for fostering transformative change in individuals, communities, organizations, and schools. Topics include models of leadership and change management; behavior of individuals and groups in organizations; communicating strategic intent; institutionalizing a capacity for change; creating successful and sustainable organizational cultures; integrating organizational silos; negotiating political landscapes; and managing for contingencies. Crosslisted with SUS 1630.

BUS 1650 Office Management, 3 credits
This course is an investigation into the operation, control, and management of the business office. Topics include: problem solving, communications systems, human resources, ergonomics, and records management.

BUS 1652 Human Resource Management, 3 credits
This course is an introduction to the psychology, purposes, and objectives of supervising the work of others. Topics to be covered include techniques of supervision, employment interviews, testing and evaluating, classroom training, on-the-job training, labor laws affecting workers, and labor-management relations.

BUS 1852 New York State Real Estate I, 3 credits
Successful completion of this course qualifies students to take the New York State Real Estate Salespersons’ Examination. The course covers business and legal aspects of real estate, including study of all legal documents, the law as it applies to the sale of real estate, fair housing, zoning, financing, and development.

BUS 1934 Meeting and Event Planning, 3 credits
In this course, students are introduced to the techniques of planning meetings and events within hotel, conference center, and corporate venues. Topics include: site selection, budgeting, meeting room layouts, sales and catering functions, and organizational timetables. (Formerly Meeting Planning and Conventions.)

BUS 2122 Computerized Business Systems, 3 credits
Students in this capstone course focus on how communication, decision-making, and critical thinking can be facilitated by the use of Microsoft Office software. Conversion of data into information used at all levels of a business is emphasized. Students create and maintain a variety of databases, spreadsheets, desktop publishing documents, mail merge documents, electronic presentation and reports as part of a simulated business environment. This course reinforces and applies the concepts learned in other required business courses.

BUS 2413 Intermediate Accounting I, 4 credits
An overview of the accounting system, financial statements and the conceptual framework of accounting is presented in this course. Topics include: a review of generally accepted accounting principles; recognition, valuation and disposition issues; cash and receivables; inventory flow procedures; plant and intangible assets; and revenue recognition. Prerequisite: BUS 1402 Fundamentals of Accounting or BUS 1416 Financial Accounting.

BUS 2416 Managerial Accounting, 4 credits
This course introduces students to managerial accounting as an information system that provides managers with a basis for decision-making. Topics include accounting systems, job and standard costing systems, breakeven analysis, short and long term decision-making, operating budgets and flexible budgeting. Emphasis is placed on the needs of managers to use internal accounting information to make business decisions. Prerequisite: BUS 1402 Fundamentals of Accounting or BUS 1416 Financial Accounting.

BUS 2418 Computerized Accounting, 3 credits
This course uses QuickBooks® accounting applications software. Topics include analyzing and recording business transactions, the trial balance, financial statements, receivables, payables, inventory and payroll. Pre-req BUS 1402 Fundamentals of Accounting, OR BUS 1416 Financial Accounting.

BUS 2460 Federal Income Tax Procedures, 3 credits
This course covers the basic principles of US Federal income tax procedures and a study of the law as it applies to taxation. Emphasis is placed on the preparation of individual returns. Topics include exemptions, deductions, credits, gains and losses, and other property transactions. Prerequisites: BUS 1402, Fundamentals of Accounting or BUS 1416, Financial Accounting.

BUS 2502 Business Law II, 3 credits
This course surveys topics governed by the Uniform Commercial Code. Topics include the law of sales and
commercial paper, employer and employee relations, and bankruptcy. Throughout the course, students survey current business law topics as they occur in the business world.

**BUS 2602 International Business, 3 credits**
An introduction to the challenges and problems faced by American firms in conducting business in world markets. The course will expose the student to the concepts and principles dealing with world trade, foreign environments, global operations, and the necessary global managerial skills required for success in such activities.

**BUS 2620 Medical Administrative Procedures II, 3 credits**
In this course students continue to learn medical administrative front office skills. This course focuses on using telephone techniques; scheduling appointments; managing the patient reception area; managing patient education; processing healthcare claims, billing, and collections; accounting for the medical office, and managing the medical office. Prerequisite: BUS 1620 Medical Administrative Procedures I

**BUS 2852 New York State Real Estate II, 3 credits**
Successful completion of this course qualifies students to take the New York State Real Estate Broker's examination. This course includes the study of appraisal, investments, construction, management, taxes, and assessments. Prerequisite: BUS 1852 New York State Real Estate I

**BUS 2906 Introduction to Financial Planning, 3 credits**
This course is an introduction to investments and the financial planning process. Topics include: the asset allocation model, types of investments, risk vs. reward, time value of money, the stock market, bond market, managed money, insurance products, domestic and international securities, trading securities and strategies.

**BUS 2913 Business Field Experience, 3 credits**
This course is designed to provide the student with a supervised fieldwork experience. Students experience a cooperative work experience opportunity with a transportation company, travel agency, hotel, convention bureau, or other tourism-related firms. The major purpose is to develop a professional, occupational competence, using employment as a source of learning. The student works in a specific area of interest for a minimum of 120 hours.

**CAR 1000 Residential Carpentry NCCER Core, 4 credits**
This National Center for Construction Education and Research (NCCER) core course provides a basic introduction to students entering the construction trade. Students study six modules: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Introduction to Power Tools, Introduction to Blueprints, and Basic Rigging. Students are required to successfully complete this course prior to entering either the Construction Technology Certificate or AOS programs.

**CAR 1100 Introduction to Carpentry NCCER Level 1 Modules, 4 credits**
This is an introductory course for students interested in carpentry. It is offered by The National Center for Construction Education and Research (NCCER). Students study the following modules: Orientation to the Trade, Wood Building Materials, Hand and Power Tools, Floor Systems, Wall and Ceiling Framing, Roof Framing, and Exterior Doors and Windows. This course is a prerequisite to Advanced Residential Carpentry. Students are required to successfully complete this course prior to entering either the Construction Technology Certificate or AOS programs. Prerequisite: CAR 1000 Residential Carpentry NCCER Core

**CAR 2001 Advanced Residential Carpentry I, 4 credits**
Students are taught skills associated with reading and using blueprints; layout, including distance measurement and differential leveling, use of site/plot drawings and methods of on-site communication; concrete and reinforcing materials, foundation and flatwork and concrete forms. Prerequisites: CAR 1000 Residential Carpentry NCCER Core and CAR 1100 Introduction to Carpentry NCCER Level 1 Modules

**CAR 2002 Advanced Residential Carpentry II, 4 credits**
This course focuses on the skills and materials associated with roofing applications and advanced roofing systems, exterior finishes and installation, and thermal and moisture protection. Prerequisite: CAR 2001 Advanced Residential Carpentry I

**CAR 2003 Advanced Residential Carpentry III, 4 credits**
Students learn the skills associated with the construction of stairs and advanced stair systems for residential and light commercial use; installation and finishing of drywall and interior finishing skills including door, window, floor and ceiling trim. Prerequisite: CAR 2002 Advanced Residential Carpentry II
CAR 2004 Advanced Residential Carpentry IV, 4 credits
This course covers the principles, equipment and methods used to perform the site layout tasks that require angular measurements. These tasks include laying out building foundation lines and determining elevations by trigonometric leveling. The use of laser instruments, transits, electronic distance measurements and total stations is covered. Advanced floor systems, an introduction to light construction equipment, metal buildings and project management skills are also covered. Prerequisite: CAR 2003 Advanced Residential Carpentry III

CAR 2005 Advanced Residential Carpentry V, 4 credits
Students apply skills learned in previous residential carpentry classes in an actual workplace setting and obtain additional knowledge and proficiencies in selected competency areas determined by the employer, student and faculty. A student learning contract and student competency profile is used to determine objectives and outcomes. Prerequisites: CAR 2001 Advanced Residential Carpentry I and CAR 2002 Advanced Residential Carpentry II

CEL 2001 Advanced Residential Electrical I, 4 credits
Students focus on the following topics: alternating-current systems and the application of Ohm’s Law to AC circuits; grounding and bonding electrical systems; conduit bending; boxes and fittings; conductor terminations and splices; installation of electrical services; circuit breakers and fuses; and electrical residential lighting and fixtures. Prerequisites: Successful completion of content in NCCER CORE and Level 1 modules as documented through Mastery Tests, Performance Profiles and/or assessment of prior learning.

CEL 2002 Advanced Residential Electrical II, 4 credits
Students learn the industry standards for electrical work, including branch circuits, rating and derating, and various types of residential and commercial electrical trades; conductor selection and calculations; overcurrent protection; wiring devices; AC and DC motors, including main parts, circuits, and connections; and motor calculations. Prerequisite: CEL 2001 Advanced Residential Electrical I

CEL 2003 Advanced Residential Electrical III, 4 credits
Students learn load calculations feeder and services; lamps, ballasts, and components; practical applications of lighting; basic electronic theory, including semi-conductors, diodes, rectifiers, transistors, and solid-state digital electronics including counter and register circuits; and distribution equipment. Prerequisite: CEL 2002 Advanced Residential Electrical II

CEL 2004 Advanced Residential Electrical IV, 4 credits
Students learn examines simple cord and motor controllers, conventional controllers, and electronic controllers. Other topics include the basic principles of refrigeration and air-conditioning and compressors; NEC requirements; and HVAC control wiring, troubleshooting, and solid-state circuitry. Prerequisite: CEL 2003 Advanced Residential Electrical III

CEL 2005 Advanced Residential Electrical V, 4 credits
Students will apply skills learned in previous residential electrical classes in an actual workplace setting and obtain additional knowledge and proficiencies in selected competency areas, determined by the employer, student, and faculty. A student learning contract and student competency profile will be used to determine objectives and outcomes. Prerequisites: CEL 2001 Advanced Residential Electrical I and CEL 2002 Advanced Residential Electrical II

CHS 1010 Corporate and Homeland Security, 3 credits
Students examine the structure, organization, and key principles associated with federal, state and private organization security functions as they relate to the concept of homeland security.

CHS 1020 Critical Infrastructure Protection, 3 credits
The critical infrastructure of a nation is the system of highly complex and interdependent physical and cyber-based assets essential to the minimum operations of a nation’s economy and government. Students study and learn the various elements comprising this infrastructure including but not limited to, communications, energy, banking and finance, transportation, water supply, and emergency services in both the public and private sectors. Students learn about the various new vulnerabilities to equipment failure, human error, weather and other natural causes, and physical and cyber attacks. Flexible and evolutionary approaches are used to address these issues to provide both domestic and international security.
COM 1305 Intercultural Communication, 3 credits
Students analyze and utilize the theoretical and practical tools necessary to understand and attribute meaning to communicative behaviors during the process of intercultural communication. Analysis focuses on how culture influences the communication process and how cultural variations play a role in the process of communication.

COM 1500 Introduction to Broadcasting, 3 credits
Through lecture, discussion, and laboratory experience, students study the problems and practices of radio and television broadcasting, including basic technical aspects, staff organization, equipment and programming. Crosslisted with HUM 1500.

COM 2100 Mass Media, 3 credits, GE 7
Students are introduced to mass media-print sound, and visual. Mass media is presented as industries which shape and are shaped by, significant issues. Crosslisted with ENG 1100.

COM 2125 Mass Media Criticism, 3 credits
Students in this course develop a critical basis for judging the quality of mediated information. Emphasis is placed on judging both production values and content. The relationship between society and technology forms the background for understanding how media affects values, life choices and perceptions of both individuals and groups. Crosslisted with HUM 2125.

COM 2200 Media Writing Techniques, 3 credits
Students examine the techniques used in writing for radio and television. Emphasis is placed on the ability to apply skills in a variety of writing assignments, including commercials, newscasts, and drama. Crosslisted with ENG 2200.

COM 2300 Audio Production, 3 credits
Students examine audio design and production techniques, emphasizing audio aesthetics and design, editing, single and multi-track production, mixing, and remote production.

COM 2400 Video Production, 3 credits
Students examine design and production techniques for the video medium. Emphasis is placed on program production for commercial, industrial, and institutional use, along with new applications of video.

COM 2600 Advanced Media Production, 3 credits
Students increase their studio production skills. Emphasis is placed on expanded use of lighting, special effects, audio reinforcement, and on the use of electronic graphics.

COM 2601 Media Internship I, 3 credits
Students participate in a supervised practical experience in the field of communications providing the opportunity to work in a professional setting. This course is for Communications and Media Arts students only.

COM 2602 Media Internship II, 3 credits
Students participate in a supervised practical experience in the field of communications providing the opportunity to work in a professional setting. This course is for Communications and Media Arts students only.

CPT 1120 Computer Hardware and Software, 4 credits
This course involves classroom lectures and hands-on exposure to advanced microcomputer software and hardware. Topics include: current hardware technology, microcomputer operating systems, fixed disk management, communications, and local area networks. Prerequisites: MAT 1001, College Math I or higher.

CPT 1160 Networking I, 4 credits
This course will introduce students to the organization and design of networks. It contains the background information students would need to take the first part of the CCNA certification, however, certification preparation is not included in this course. Topics include networking media, networking topologies, the OSI reference model, TCP/IP protocol suite, subnets, routers, switches, and basic networking concepts. Students will learn industry standards and terminology. Prerequisite: CPT 1209, PC Hardware and Software.

CPT 1161 Networking Essentials, 3 credits
Students study current network technologies for local area networks (LANs), wide area networks (WANs), and the Internet. The course provides an introduction to the hardware, software, terminology, components, design, and connections of a network, as well as the topologies and protocols for LANs. Lastly, LAN-user concepts and the
basic functions of system administration and operational procedures as related to computer support are also covered. Students take the LabSim Network Pro certification exam which prepares them to take the CompTIA Network+ certification exam. Pre-requisite or Co-requisite: CPT 1200 Computer Information Systems with a grade of C or better or CPT 1210 Computer Literacy or permission of instructor.

CPT 1180 Operating Systems, 4 credits
This course is an overview of microcomputer operating systems, which includes installation, configuration, maintenance, and efficiency. Installation and management of peripheral devices such as hard disk, USB flash drives, floppy drives, printers, and monitors will be covered. Customizing the operating system environments, troubleshooting, evaluating system performance, and system utilities of operating systems are also covered. Both client and server operating systems will be discussed including but not limited to Microsoft Windows (Server, XP, and Vista), Linux, and DOS. Students will learn industry standards and terminology. Prerequisite: CPT 1200, Computer Information Systems with a grade of C or better or permission of instructor.

CPT 1200 Computer Information Systems, 3 credits
Students study and participate in extensive hands-on experiences in the fundamental principles of computerized information systems and computer processing. These include studies of computer hardware, programming, communications, and commonly used computer applications. New trends and developments in the industry are discussed.

CPT 1203 HTML, 3 credits
Students participate in an in-depth study of Hypertext Markup Language (HTML). Topics include the creation of an HTML document, controlling HTML text, adding graphics and multimedia, an introduction to forms, tables, frames, links and anchors, scripting for HTML and working with Dynamic HTML. Hands-on instruction and tutorials for the creation of sample pages and sites are emphasized.

CPT 1205 Web Graphics, 3 credits
Students are introduced to image editing and illustration software, such as PhotoShop®, Illustrator® and ImageReady® as related to the creation of web pages and sites. Topics covered include creating images which are user friendly and aesthetically pleasing, using hardware for input, image optimization for web output, creating navigation aids, and creating templates. Students create web pages and sites for their portfolios.

CPT 1207 Computer Applications, 3 credits
Students learn to use productivity software application packages in the Windows operating environment. The applications covered include word processing, spreadsheets, presentation and database software. Prerequisite: Windows Literate.

CPT 1209 PC Hardware and Software, 3 credits
Students study a broad range of PC hardware and software concepts. Emphasis is on configuration, installation, management, maintenance, and resources required. Students will take the LabSim PC Pro certification exam at the end of this course which will prepare them to take the CompTIA A+ certification exam. Prerequisite: CPT 1200 Computer Information Systems with a grade of C or better, or CPT 1210 Computer Literacy, or permission of instructor.

CPT 1210 Computer Literacy, 3 credits
This course is designed to give students an overview of computer technology, terminology, and the role of computers in society. The theoretical concepts that relate to computers and the Internet are discussed. This course provides students with research and critical thinking skills using current technology. Students use word processing, spreadsheet, database, and presentation software to present their theoretical findings.

CPT 1225 Microsoft Excel, 3 credits
This course is a hands-on, in-depth study of the Microsoft Excel spreadsheet component of the Microsoft Office Suite. It covers the commands, features and skill sets of Excel from the basic through advanced levels. Topics include building spreadsheets, simple and complex formulas and functions, creating charts, and the creation of useful forms. It prepares the student to be an accomplished user with the option of testing for the Microsoft "Proficient" level of certification.

CPT 1300 Introduction to Computer Science, 3 credits
Students gain a breadth of knowledge in topics pertaining to the area of computer science and information systems technology. Topics include, but are not limited to: computer history, basic computer concepts, data storage and manipulation, and an introduction to basic logic and computer programming. After completing the course, the
student will possess the foundation needed to progress further in the area of computer science or a variety of other disciplines. Students from both computing and non-computing majors are encouraged to take this course.

CPT 1301 Logic and Problem Solving, 3 credits
Students learn how to create, propose, and test algorithms in order to arrive at possible solutions to real-world problems. Using an efficient combination of a sequence of steps, conditional statements to make decisions, and loops for performing repetitive tasks, students will document and be able to defend their proposed solutions using logical arguments. This course is highly recommended for all students who plan to take a programming language course.

CPT 1303 Introduction to Simulation and Game Development, 3 credits
This course provides students with an introduction to simulation and game development. Topics include setting, storytelling, narrative, character design, interface design, game play, internal economy, core mechanics, game genres, artificial intelligence (AI), the psychology of game design and professionalism. Upon completion, students should be able to demonstrate knowledge of the major theoretical aspects of simulation and game design and development.

CPT 1305 Computer Applications for the Legal Office, 3 credits
This course is a hands-on, in-depth study of specialized legal software applications used in today's law office. Topics include calendar monitoring, document management, time and billing, computer-assisted legal research, and managing the automated law office environment.

CPT 1315 Multimedia Graphics, 3 credits
Students learn to use vector-based graphics and multimedia authoring software such as Maya and 3ds Max. Topics include integrating audio and video streaming, creating animations and interactivity for web pages and sites, creating interactive movies, creating vector-based sites, and optimizing material for rapid downloading. Students create multimedia-rich pages and sites to add to their portfolios. Prerequisite: CPT 1303 Introduction to Simulation and Game Development or permission of instructor.

CPT 1403 Simulation and Game Development Programming I, 3 credits
This course introduces the fundamentals of the programming languages and tools employed in simulation and game development. Emphasis is placed on specific programming concepts and frameworks used to create simulations and games. Upon completion, students should be able to program simple object-oriented 2-D games and/or simulations.
Prerequisite(s): CPT 1303 Introduction to Simulation and Game Programming Development or permission of the instructor.

CPT 1405 Programming in Microsoft Visual Basic, 4 credits
This course is an introduction to Microsoft Visual Basic. The course has four main objectives a) to teach the fundamentals of Microsoft Visual Basic for Windows, b) to acquaint the student with the three-step approach to building Windows applications, c) to use practical problems to illustrate application-building techniques, and d) to take advantage of the many new capabilities of building applications in a graphical environment. Prerequisites: CPT 1301 Logic and Problem Solving with a C or better or permission of instructor.

CPT 1408 Web Design, 3 credits
Students learn to create basic, effective and attractive web pages and sites using current software. The course is intended for those who need a general background in web production for businesses, organizations or as a supplement to their careers. To be successful students must be Windows literate with an understanding of word processing.

CPT 1411 Business on the Internet, 3 credits
This course covers the basic principles of business as they relate to the Internet. Topics include funding, creating a business plan, setting up books, policies and procedures, payroll, controlling inventory marketing and sales, achieving top search engine placement, and using list exchanges, web rings, email and list serves. Students create a basic business plan as a final project.

CPT 2030 Networking II, 4 credits
This course builds on the foundation developed in CPT 1160, Networking 1 and extends the students’ capability to understand and manage data networks. It contains the background information students would need to take the second part of the CCNA certification; however, certification preparation is not included in this course. Topics include LAN and WAN design, VLANs, Frame Relay, ISDN, and network administration. Students will learn industry
CPT 2040 Mobile Application Programming, 4 credits
In this course, students are introduced to software application programming for mobile devices. Topics include: graphical user interface design, hardware interaction and optimization, data storage, web service integration, application lifecycle events and trends related to device convergence and form factor. Students develop and test various types of data-driven mobile applications. Upon completion, students should be able to demonstrate applied knowledge of various software and related platform architecture frameworks used to develop mobile applications. Prerequisites: CPT 2216 C++ and Object-Oriented Programming or permission of instructor.

CPT 2170 Unix/Linux, 3 credits
This is a computer-based course that will introduce the student to the UNIX and LINUX operating system. Assignments will include installation, basic operation, file management, administration, and configuration of LINUX. Various editions of UNIX/LINUX will be discussed. Students may wish to use this course to prepare for the CompTIA Linux+ certification. Prerequisites: Management Information Systems (not currently offered at SUNY Sullivan) or permission of the instructor. MAT 1001, College Math I or higher.

CPT 2200 Network Forensics, 3 credits
This course will introduce the student to the accepted methods of properly conducting a forensics investigation over a network. Students should have a working knowledge of networks, hardware, and operating systems (OSs) to maximize their success on projects and exercises throughout the text. Specific topics covered include: network forensics investigation overview, the Microsoft network structure, processing crime and incident scenes, digital evidence controls, data acquisition, forensic analysis, recovering image files, the registry structure, registry evidence, presenting the results. Prerequisites: CPT 2030 Networking II, CPT 2213 Computer Forensics.

CPT 2207 Advanced Computer Applications, 3 credits
Students learn to use advanced-level productivity software application packages in the Windows operating environment. The applications covered include word processing, spreadsheets, presentation and database software. Prerequisite: CPT 1207 Computer Applications

CPT 2211 Database Management, 4 credits
Students analyze data and solve real-life business problems using current relational database management system and structured query language (SQL). Students learn how to create a normalized database schema using data definition language (DDL) and how to manage and query the data using data manipulation language (DML). Students use critical thinking and analysis in hands-on learning applications and create effective solutions to applied real-life business situations. Prerequisites: CPT 1200 Computer Information Systems with a grade of C or better, or permission of instructor.

CPT 2213 Computer Forensics, 3 credits
This course introduces the student to the accepted methods of properly conducting a computer forensics investigation, beginning with a discussion of ethics while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Students should have a working knowledge of hardware and operating systems (OSs) to maximize their success on projects and exercises throughout the text. Specific topics covered include: computer forensics and investigations as a profession, understanding computer investigations, the investigator's office and laboratory, current computer forensics tools, processing crime and incident scenes, digital evidence controls, working with windows and DOS systems, Macintosh and Linux boot processes and disk structures, data acquisition, computer forensic analysis, recovering image files, network forensics, email investigations. Prerequisites: CPT 1120, Computer Hardware and Software and CPT 1180, Operating Systems

CPT 2216 C++ and Object Oriented Programming, 4 credits
This course covers Object Oriented Programming (OOP) design methodology in the C++ environment. The fundamentals of C++ are presented. These include the concept and use of objects, control constructs, functions, libraries, parameter passing, classes, arrays, pointers; dynamic data types, and inheritance. Students are expected to have completed previous programming coursework. Prerequisite: CPT 1405, Programming in MS Visual Basic

CPT 2219 Real World Computer Applications, 3 credits
This course is an exploration of the advanced features of productivity software as applied to typical business activities. Students integrate the skills learned in the Computer Applications I and II to complete a career-oriented portfolio useful for job hunting or transfer applications. Prerequisites: CPT 1207 Computer Applications and CPT 2207 Advanced Computer Applications
CPT 2240 Network Perimeter Security, 3 credits
This course introduces firewalls and the network security components that can work together to provide an in-depth defensive perimeter around a local area network. Accordingly, this course examines firewalls in context with the other elements needed for effective perimeter security as well as security within a network. These include packet filtering, authentication, proxy servers, encryption, bastion hosts, virtual private networks, log file maintenance, and intrusion detection systems. Different firewall configurations will also be examined. Prerequisite: CPT 2030, Networking II.

CPT 2260 Cyber Crime Investigations, 3 credits
This course is designed to provide the student with foundational knowledge of common techniques used by most cyber crime investigators. Procedural approaches and documentation will be covered. These procedures identify the accepted approaches to protect a digital crime scene/incident, process the collected data/information, ensure and document the integrity of the entire process. The cyber crime investigative procedures will be scrutinized to identify potential problems. The student will be instructed in how the procedures and outcomes of those procedures create supporting documentation for a legal case. Prerequisite: CPT 2200 Network Forensics.

CPT 2301 Internship in Computing, 3 credits
Students participate in supervised practical experience within the field of computing. Students must complete a minimum of 120 hours in a professional work setting. A specific proposal by the student must be approved by the faculty member. This course is for Computer Information Systems students only. Prerequisite: CPT 1301, Logic and Problem Solving with a C or better or permission of instructor.

CPT 2330 Information Security, 3 credits
This course is designed to familiarize the student with the foundation utilized by most organizations in developing a management framework that will implement a secure, predictable and dependable system throughout the organization. In addition, it will help students preparing to take the Certified Information Systems Security Professional Exam (CISSP). This is a first course in the introduction and study of Information security. A broad view of the field is provided along with enough detail to facilitate an understanding of the topic as a whole. All pertinent terminology is covered, along with the field’s history and an overview of how to implement and manage an information security plan. Readings and cases are provided to further enable a student to master the text material while bringing realistic security issues to the forefront. Readings from current periodicals in the information security will also be reviewed. Prerequisite: CPT 1160, Networking I.

CPT 2403 Simulation and Game Development Programming II, 3 credits
The course covers advanced programming concepts used to create object-oriented 3-D simulations and games. Emphasis is placed on acquiring advanced programming skills for use in creating advanced object-oriented 3-D simulations and games. Upon completion, students should be able to program an advanced object-oriented 3-D simulation or game. Prerequisite(s): CPT 1403 Simulation and Game Development Programming I or permission of the instructor.

CPT 2607 Data Structures, 4 credits
This course focuses on object-oriented software development from a hierarchical data organization and storage perspective. Students will engage in hands-on development of algorithms, class hierarchy, and linear data structure creation including lists, and stacks and queues. Prerequisite: CPT 2216 C++ and Object Oriented Programming

CPT 2608 SpTp: Information Storage Management, 3 credits
This course is a study of the architectures, features, and benefits of intelligent storage systems; networked storage technologies such as FC-SAN, NAS, and IP-SAN; and long-term archiving solutions such as CAS Business Continuity and information management infrastructure. This course also focuses on the increasingly critical area of information security and the emerging field of storage virtualization technologies. Experience working with databases and permission of instructor is required.

CPT 2609 IT Certifications, 3 credits
This course prepares students for one of the currently available IT certification options: Microsoft Office Specialist (MOS) certification, which emphasizes skills in using the 2007 or 2010 Microsoft Office System; CompTIA’s Network+ which emphasizes the managing, maintaining, troubleshooting, installing and configuring of basic network infrastructures; or CompTIA’s Security+ which emphasizes system security, network infrastructure, access control and organizational security. Students should elect to prepare for either one MOS exam OR one CompTIA exam.
CPT 2611 Systems Analysis, 4 credits
This course presents a study of systems analysis, design, development, and implementation of computer information systems. The class covers all phases of the computer information system life cycle: analysis techniques, design techniques, resource acquisition, application development, system implementation, and ongoing maintenance procedures. Student learning experiences are heightened by project examples and assignments. Working as a member of a small team, students create a near-complete, modest information system for a small enterprise. Oral and written communication skills are employed throughout the course. Prerequisites: CPT 1200 Computer Information Systems with a grade of C or better, CPT 1301 Logic and Problem Solving with a grade of C or better, CPT 1405 Programming in Microsoft Visual Basic, and CPT 2211 Database Management or permission of instructor.

CRJ 1107 Police Operations, 3 credits
Students examine the organizational structure and operation of local, state and federal police departments. This course includes a discussion of the philosophy and laws guiding police policies and procedures and identifies major divisional units and operational components of most police departments. Prerequisite: CRJ 1115 Introduction to Criminal Justice

CRJ 1108 Introduction to Organizational Security, 3 credit hours
This course offers an overview of protective services, presenting the historical, philosophical and legal bases for the security field. It focuses on the various facets of modern security operations in a variety of settings: hospital, campus, corporate, industrial, retail and resort. The role of security organizations, awareness of security issues and methods and techniques of loss prevention are covered. Case analyses of specific security scenarios, problems, and solutions are incorporated.

CRJ 1113 Criminal Investigation, 3 credits
Students study techniques and procedures utilized in criminal investigation. The course includes a wide range of activities associated with criminal investigation, such as interviewing, report writing, and collecting and preserving evidence. Prerequisite: CRJ 1115 Introduction to Criminal Justice

CRJ 1114 SpTp: Examining Homicide, 3 credits
This course provides a general foundation for the study of homicide. Students will learn to define definitions, data sources, and theories of homicide as well as specific types of homicides. The course will focus on solving homicides, the personnel and technology involved, and a realistic picture of how often homicides are easily solved.

CRJ 1115 Introduction to Criminal Justice, 3 credits
This course examines the three segments of the criminal justice system: law enforcement, courts, and corrections. Topics include the extent, measurement, and classification of crime; identification of key personnel and procedures within the criminal justice process; and differences between adult and juvenile justice handling.

CRJ 1116 Cultural Diversity & Criminal Justice, 3 credits
This is a practical information guidelines course for students seeking cross-cultural knowledge and sensitivity. The course content stresses that those who are charged with the responsibility of public protection and service will demonstrate greater professionalism through cultural awareness, both within the multicultural workforce and in the community in which they serve.

CRJ 1117 Police-Community Relations, 3 credits
This course provides students with an introduction to and analysis of theories, techniques, programs, and philosophies involving police image, public response, and community policing. Special attention is given to social problems through problem-solving policing techniques, crime prevention, and the police-community partnership needed for effective public safety.

CRJ 1320 Criminal Law & Procedure, 3 credits
Students examine basic principles of criminal liability and procedural protections provided for defendants by the US Constitution. It explores the purposes of criminal law in America and the methods by which the criminal law is implemented within our society. It includes elements of general criminal liability and defenses, as well as elements of specific major offenses. The application of criminal law to the criminal justice process from investigation through post-conviction remedies is covered. Distinctions between the philosophy and practice of substantive and procedural criminal law for juveniles and for adults are considered. Prerequisite: CRJ 1115 Introduction to Criminal Justice.

CRJ 1322 Constitutional Law, 3 credits, GE 3
This course is an examination of the historical development of the relationship of the states to the Bill of Rights. Also examined are the due process clause of the Fourteenth Amendment and the scope and limits on criminal justice agencies. Crosslisted with POL 1322.

**CRJ 1324 SpTp: Constitutional Law for Corrections, 3 credits**
This course is a study of legal problems from conviction to release, pre-sentence investigation, sentencing, probation and parole, loss and restoration of civil rights, inmate constitutional rights and grievance procedures, legal assistance and alternatives to litigation.

**CRJ 1350 Introduction to American Law, 3 credits**
This course provides a survey of the American legal system. Students examine the structure of the system and the roles of participants, including legislators, judges, attorneys, and paralegals. Students are introduced to the sources of law and such substantive areas of law as contracts, torts, crimes, and property. Crosslisted with POL 1350.

**CRJ 2103 Introduction to Corrections, 3 credits**
Students examine institutional treatment of the inmate in the various correctional settings: jails, correctional facilities, juvenile detention facilities, work release programs, halfway houses, and narcotic addition control centers. Current administrative organization and practices in correctional institutions are studied. *(Formerly Inmate Treatment/Correctional Administration)* Prerequisite: CRJ 1115 Introduction to Criminal Justice

**CRJ 2104 Probation and Parole, 3 credits**
An introduction to the process of probation and parole with an emphasis on the legal procedures accompanying community-based corrections. The rehabilitative prospects of incarceration are considered, along with alternatives to incarceration. Prerequisite: CRJ 1115 Introduction to Criminal Justice or permission of instructor

**CRJ 2111 Juvenile Justice, 3 credits**
Students examine the history, philosophy and practice of juvenile justice in the United States. The course includes a discussion of theories of delinquency causation, prevention and control. Students survey practices and procedures used by police, courts and corrections to prevent and control youth crime and delinquency. The role of the school, the family, the community, and the culture in defining, causing, and controlling juvenile misconduct are discussed. Special emphasis is placed on a comparison of juvenile and adult handling at all levels of criminal justice intervention and treatment. Prerequisite: CRJ 1115 Introduction to Criminal Justice

**CRJ 2200 CRJ Field Work and Seminar, 5 credits**
This course is a supervised field experience for the student in a criminal justice setting. Each student spends 120 hours as a supervised intern in the setting and participates in a two hour weekly seminar on campus. Seminar sessions cover topics shared by all criminal justice agencies: legal, ethical, political, economic, and organizational issues affecting criminal justice administration. Students entering this course are expected to have completed the first three semesters of CRJ courses or their equivalent. Approval of the CRJ Coordinator is required for registration. Students must provide their own transportation to the intern site.

**CRJ 2512 Forensic Psychology, 3 credits**
This course considers the application of psychology to law and the legal system. It focuses on uses of psychology in civil commitment proceedings and various aspects of the criminal justice system. Applications of psychology to law enforcement, to the courts and to corrections are discussed. Subjects covered include topics such as determining criminal responsibility, employment testing, jury selection and decision making, witness credibility and competency, crime-related issues, family law issues, explaining criminal behavior, and correctional psychology. Prerequisite: PSY 1500 General Psychology

**CRJ 2608 Introduction to Criminology, 3 credits**
Students discuss the nature and extent of crime, past and present theories of crime causation, criminal behavior in American society and its relation to personal and cultural conditions. Prerequisite: SOC 1600 Introduction to Sociology

**CUL1001 Hospitality Seminar, 3 credits**
The course serves as an introduction and overview of the hospitality industry and its many varied career opportunities. The course includes job classifications, job selection procedures and career ladder steps. Personal aptitudes and self-evaluation for success are stressed.

**CUL 1104 Introduction to Food and Baking, 3 credits**
Students are introduced to the fundamental concepts, skills and techniques of basic food preparation and baking.
Students learn about ingredients, cooking methods, terminology, equipment, and procedures. The class includes lecture, demonstration and participation in basic food production (including the preparation of eggs, batters, vegetables, starches, thickening agents, stocks, soups, breads, rolls, pies and cakes).

**CUL 1121 Hospitality and Food Service Operations, 3 credits**
This course will introduce students to the hospitality and food service industry, its growth and development, past and present status, and future trends. The topics to be covered are culinary terminology, primary cooking and baking methods, basic knife skills, cooking techniques, menu development, techniques of table arrangements, and various types of dining room service. Practical work will include French, Russian, English, American, Banquet and Buffet preparation and procedures.

**CUL 1150 Culinary Sculptures, 2 credits**
This course provides an introduction to understanding the tools and techniques involved in the production of culinary sculptures. Various mediums (ice, tallow, salt dough, etc.) are used in the production of sculptures.

**CUL 1160 Cake Decorating, 3 credits**
Students in this course learn the skills required to prepare cakes in both traditional and contemporary styles are taught. Instruction is provided in making decorative icing, sugar molds, lattice designs and flowers as well as in making orders, use of decorative writing, color blending and designs. Decorative techniques in the making of cakes for special occasions such as birthdays, weddings, and anniversaries are demonstrated. Students are provided with an introduction to rolled fondant, chocolate fondant, chocolate dough and gum paste flowers. Corequisite: CUL 1104 Introduction to Food and Baking

**CUL 1205 Bakery Management, 3 credits**
The retail and wholesale aspects of the baking industry are explored. Bake-off systems, scheduling, production control, distribution, sales and marketing, display techniques, layout and design as used in a bakery are practiced. Regulatory requirements are discussed. Prerequisite: CUL 1104 Introduction to Food and Baking

**CUL 1206 Principles of Baking, 2 credits**
This course covers the fundamentals and theoretical aspects of baking. Topics include: nomenclature, ingredients, techniques, equipment and portion control; the history of baking; an introduction to the equipment used and composition of ingredients; production procedures, service, weights and measures; and basic recipes for bread, rolls, and cakes. Students do practical work on rolls, breads, pastries, pie dough, Danish, Choux paste, puff paste, doughs and prepared mixes. Prerequisite: CUL 1104 Introduction to Food and Baking

**CUL 1312 Hospitality Purchasing, 3 credits**
This course focuses on purchasing policies and procedures in procuring foods, beverage, equipment, supplies and services for the hospitality industry.

**CUL 1340 Beverage Service, 2 credits**
This course offers students the theory and practice skills needed to prepare and serve various hot and cold beverages in the hospitality industry. This course is also designed to familiarize the student with wines, beers, spirits, coffees, teas and other beverages from a manufacturing, legal service and sales viewpoint.

**CUL 1500 Sustainable Food and Farming, 3 credits**
In this course, students explore the theories and practices related to sustainable agro-food systems. The emphasis is on the relationship between agriculturally productive environments, natural ecosystems, and sustainable communities. Topics include organic and biodynamic farming, agroecology, permaculture, community-based food systems, and community gardens. This course will include fieldtrips to regional sites that exemplify sustainable food and farming practices. Crosslisted with SUS 1500.

**CUL 1702 Applied Nutrition Lab, 1 credit**
Students who take this course examine the basic principles of nutrition, including the application to food preparation and menu planning. Attention is given to providing nutritionally balanced and attractive meals. Menu planning using sound nutritional guidelines is stressed. Selection of lower calorie, low fat, low salt food items and their application to special diets are introduced. Low fat preparation techniques are explored. Prerequisite: CUL 1104 Introduction to Food and Baking

**CUL 1804 Advanced Baking Techniques, 3 credits**
This course provides an introduction to the quality aspect of baking as related to the hospitality industry. Included are: decorating with royal icing, chocolate, butter cream, coco painting, chiffon pies, chiffon cake mixes, foam cake
mixing, meringues, quakenbush, tarts and torte of fruits, petit fours, breads, ice creams, cookies and soufflés. Bakery organization and sanitation is stressed. Prerequisite: CUL 1206 Principles of Baking

CUL 1907 Sanitation and Safety, 2 credits
 Students examine the proper use of sanitation and safety methods in the hospitality industry. Emphasis is placed on the problems and procedures, techniques and practices in sanitation and safety. This course includes an examination of the sanitary handling of foods in purchasing and storage, preparation and serving.

CUL 2104 Culinary Arts Theory & Development, 3 credits
 Students explore the fundamentals of basic hotel, restaurant and industrial catering through lecture, demonstration and participation in basic food production, including the preparation of eggs, batters, potatoes, vegetables, shellfish, fish, salads and dressings. Theory and practice of cooking methods such as frying, roasting, broiling, griddle work, poaching, and sautéing, with a basic understanding of use and care of kitchen equipment are practiced. Emphasis is placed on the preparation of stocks, broth, consommés, and various soups. Students prepare various basic and compound sauces, stews, seafood dishes, hors d'oeuvres and canapés. Lectures and demonstrations on primal meat cuts and basic butchering are conducted. Prerequisite: CUL 1104 Introduction to Food and Baking

CUL 2114 Restaurant Operations, 3 credits
 This course is designed as an introduction to kitchens and dining rooms found in the hospitality industry. Students practice concepts and skills learned in CUL 2104 Culinary Arts Theory & Development in a restaurant setting and are introduced to dining room and beverage service. Preparation, production and service of complete menus are covered. The course also covers such areas as recipe costing, menu planning and terminology, personnel needs, dining room arrangement and various types of service. Quantity food production and dining room operations are stressed. The dining room, kitchen and bar function as a coordinated unit. Students work all stations in the kitchen, dining room, and beverage service areas on a rotating basis. Prerequisite: CUL 2104 Culinary Arts Theory and Development

CUL 2121 Banquet and Catering Practices, 3 credits
 This course elaborates on the techniques of food preparation and service while relating these activities to the catering and banquet business. The course is designed for those students who have successfully completed the introductory food courses. The functions of the catering or banquet operation are explained and taught through the use of actual functions. Prerequisites: CUL 1312 Hospitality Purchasing, CUL 1340 Beverage Service, CUL 1907 Sanitation and Safety, and CUL 2114 Restaurant Operations.

CUL 2131 International Cuisines, 2 credits
 This course is designed to introduce students to cuisines of other countries. Emphasis is placed on student's production and presentation of complete menus and techniques as they apply to European and Asian Cuisines. Prerequisite: CUL 2104 Culinary Arts Theory and Development

CUL 2134 American Cuisine, 2 credits
 This course is designed to introduce students to the development of American Cuisine through the study of traditional American dishes and multi-cultural influences. Students cook and bake a variety of dishes based on regional culture and products. Trends in modern American cooking are explored. The emphasis is on authenticity and product presentation. Prerequisite: CUL 2104 Culinary Arts Theory and Development

CUL 2140 Garde Manger, 2 credits
 This course is designed as an introduction to cold foods produced in the kitchen. Garde Manger techniques such as appetizers, aspics, pates, chaud-frois, terrines, galantines, cold sauces, relishes, and garnishes are demonstrated and produced. Students learn the proper care and use of tools and correct preparations of products. Prerequisite: CUL 2104 Culinary Arts Theory and Development

CUL 2160 Culinary Demonstration, 3 credits
 Students create live demonstrations before audiences using various types of food products and showmanship. Students have the opportunity to organize, plan, layout, develop and cost out a presentation.

CUL 2225 Bakery Production, 3 credits
 This course is designed for students as an introduction to quality and quantity baking for the hospitality industry. Students create sweet doughs, assorted breads, cakes, pies, petit fours sec and various types of glazed Danish as well as assorted French pastries. Bakery sanitation and organization are stressed. Full student participation is required as students are assigned to duties on a rotating basis. Prerequisite: CUL 1206 Principles of Baking

CUL 2227 Pastry Production, 3 credits
Students learn to produce classic and contemporary pastry items for dessert menus or retail bakeries. Included are tortes and tarts, meringue items, fillings, puddings and custards, strudels, chous past items, frangipan, glazes, shortbreads, and assorted french pastries. Bakery organization and sanitation are stressed. Students practice bakery duties and work assignments. Prerequisite: CUL 1206 Principles of Baking

**CUL 2241 The Art of Confection, 3 credits**
This course provides an introduction to candy making, almond paste modeling, coco painting on pastilage, blown and pulled sugar, fudge and candy, roasting nuts to make nougats, melting and tempering chocolate, and the preparation of culinary art display pieces in the areas of confections, pastry and baking. Food preparation for garde manger items is also included. Prerequisites: CUL 1206 Principles of Baking and CUL 2225 Bakery Production

**CUL 2252 Bread and Roll Production, 3 credits**
Students in this course learn the skill of making quick breads, yeast raised, sourdough and international breads. Scientific principles such as dough fermentation and formulation as well as various current operational processes in both wholesale and retail establishments are explored.
Prerequisite: CUL 1104 Introduction to Food and Baking

**CUL 2504 Hospitality Cost Control, 3 credits**
This course covers techniques used in the hospitality industry that show the relationship of food, beverage and labor costs to selling prices and profit. Cost control procedures for purchasing, receiving, storing, issuing, production and revenue controls are examined. Menu and portion costings, preparation of daily reports to management and the use of percentages in the hospitality industry are studied. The practical application of these systems for various types of feeding operations are studied and practiced. Preparation of yield test, pre-costing, forecasting and sale history, beverage and bar control, inventory control with analysis of operation ratios, and potential profits are included. Prerequisite: BUS 1101 Business Mathematics

**CUL 2913 Hospitality Field Experience, 3 credits**
A cooperative work experience opportunity with a transportation company, travel agency, hotel, convention bureau, or other tourism-related firms. Minimum: 120 hours

**DEN 1000 Basic English, 3 equivalent credits**
This course is designed for students who need work in the basic reading and writing skills. Students review writing skills such as grammar, mechanics, spelling, sentence structure, paragraph development and outlining, and reading skills such as comprehension and vocabulary. This course is required of students who do not demonstrate the minimum proficiency established for entrance into ENG 1001. This course may not be used to satisfy the English requirement at this College. Students must complete DEN 1000 with a grade of C or better to progress to ENG 1001 Composition I.

**DEN 1001 Writing Workshop, 1 equivalent credit**
Writing Workshop (1 equivalency credit) is a co-requisite of a typical Developmental English DEN 1000 course (3 equivalency credits); the two parts create one connected class. Students may not take a Writing Workshop section without taking the connected Developmental English section. In Writing Workshop, students work with two instructors to improve critical thinking, reading, study, writing, revision, and time management skills designed, primarily, to prepare them to enroll in a Composition I course. Students also work closely with instructors, who act as mentors to guide them successfully through their first semester of College, including the potential to enhance writing assignments for other classes. The grade students earn for the typical Developmental English portion constitutes the grade for the Developmental English class and the Writing Workshop course; however, poor attendance and poor performance in the Writing Workshop can lead to failure and withdrawal from both courses. Students who are withdrawn from Developmental English will be withdrawn from Writing Workshop and vice versa.

**DEN 1003 Writing Studio, 3 equivalent credits**
Composition I with Writing Studio students meet in a typical Composition I course (3 credits) and also meet separately in a Writing Studio (3 equivalency credits); the two parts create one class and are listed as having the same meeting times and meeting locations on a student’s schedule. In Writing Studio, students learn critical thinking, reading, study, writing, revision, and time management skills designed, primarily, to help them produce college-level writing and pass their Composition I course. Students also work closely with instructors, who act as mentors helping to guide them successfully through their first semester of College. The grade students earn for the typical Composition I portion constitutes the grade for the Composition I with Writing Studio course and the Writing Studio course; however, poor attendance and poor performance in the Writing Studio can lead to failure and withdrawal from both courses. Students who are withdrawn from Composition I with Studio will be withdrawn from
Writing Studio and vice versa. Students who fail or withdraw from Composition I with Writing Studio or Writing Studio must take Developmental English DEN 1000 or retake the English Placement exam to determine placement. Corequisite: ENG 1003, SpTp: Composition I with Writing Studio.

**DMA 0902 Basic Arithmetic and Introductory Algebra, 3 equivalent credits**
This course is designed for students who need to improve their arithmetic skills primarily involving fractions, decimals, and percents. Students concentrate on these topics as well as estimation, problem solving, and interpretation of statistical data and graphs. An introduction to elementary algebra is included. Satisfactory completion of this course (C- or better) or the basic arithmetic competency exam is required for all students for entrance into BUS 1101 or DMA 0995. This course does not apply toward the mathematics requirement for any degree at this institution. Corequisite: DMA 0903 Basic Arithmetic Workshop.

**DMA 0903 Basic Arithmetic Workshop, 1 equivalent credit**
This course is required for any student enrolled in DMA 0902. Students will review all topics covered in DMA 0902. Corequisite: DMA 0902 Basic Arithmetic and Introductory Algebra.

**DMA 0904 Review of Basic Arithmetic, 1 equivalent credit**
Students review fractions, decimals, percents, and beginning algebra. Students earning 52-68% on the math competency exam are eligible for this course. Corequisite: DMA 0995 Basic Algebra.

**DMA 0995 Basic Algebra, 3 equivalent credits**
This is a course in working with real numbers, solving linear equations and inequalities, graphing linear equations, working with polynomials and rational expressions, solving quadratic equations by factoring and the square root property, and applying algebraic techniques to solving situation problems. Students who take DMA 0902 must earn a C- or better to register for DMA 0995. This course is not open to students who have passed MAT 0990, except with permission of the Math Program Facilitator. This course does not apply toward the mathematics requirement for any degree at this institution.

**DOR 1000 Operation Rebound, 1 equivalent credit**
This is a personalized course designed to assist students who have been placed on academic probation at the completion of their first semester. This course combines an academic contract which mandates class attendance, tutoring, and weekly interactive sessions. Operation Rebound is only open to second semester students who meet specific academic criteria as defined in this catalog. Corequisite: DOR 1001

**DOR 1001 Operation Rebound Study Lab, 0 equivalent credit**
This course is designed to allow students structured group time with a tutor to complete assignments, while improving study skills. Corequisite: DOR 1000 Operation Rebound

**ECO 1401 Macroeconomics, 3 credits, GE 3**
Students study macroeconomics with the main emphasis on solving the problems of economic growth and stability. The course includes the study of such topics as monetary policy, fiscal policy, employment, inflation, international trade, and current economic problems.

**ECO 1402 Microeconomics, 3 credits, GE 3**
Students study microeconomics with the main emphasis on the economic problems of allocation, distribution, and efficiency in the American economy. The course includes a study of the market system, supply and demand, the price system, the firm, and comparative economic systems. Emphasis is placed on specific segments of the American economy such as consumers, business, labor and agriculture. Environmental topics will include externalities, cap and trade, public goods and common resources.

**ECO 2001 Environmental Economics, 3 credits, GE 3**
This course examines the economy and its interaction with the environment. Students examine the use of economic tools in developing new environmental approaches and policies. Prerequisite: ECO 1402, Microeconomics.

**EDU 1002 Childhood Art, 3 credits, GE 8**
Students are introduced to the creativity and aesthetics inherent in the art of children. Through hands-on experiences, students explore various forms of artistic expression and the creative processes appropriate for children. Students also have the opportunity to research and build a resource file of age-appropriate art activities for children. Crosslisted with ART 1002, Childhood Art.
EDU 1102 Creative Learning Activities, 3 credits
This course introduces students to creative activities suitable for preschool children: art, music and movement, math, science, sensory, social studies, and dramatic play within the context of creativity. Instruction is provided in locating, planning, implementing and evaluating creative learning activities. Emphasis is placed on stimulating learning, creativity and imagination through the use of a variety of methods and materials. Lectures and demonstrations are combined with laboratory hands-on experiences.

EDU 1106 Nutrition, Health and Safety, 3 credits
This course is designed to provide an overview of the interrelation of health, safety, and nutrition for the young child. Students explore the development of eating habits in young children, as well as basic nutrients, their major sources and their effect on growth and development. Nutrition education and menu planning are stressed. The topics of common childhood diseases, health appraisals, universal precautions, poison control, child abuse, and classroom safety are also discussed. Students receive training in the American Red Cross programs of Infant/Child First Aid and CPR. Course completion may lead to certification in same.

EDU 1207 Observation/Participation in Early Childhood Education, 3 credits
This course serves as an introduction to the application of child development techniques through observation and participation experiences with young children in the on-campus laboratory school. Weekly seminars address the use of objective techniques for observing and recording behaviors as well as communication skills, guidance techniques, developmentally appropriate practices, and the role of the teacher in early childhood education. As a laboratory course, each hour of class is matched with an hour of observation or participation scheduled separately. Students must pass with a "C" or better to continue in the program. No student may participate in the Center without completing all required clearances for work with children.

EDU 2100 Children's Literature, 3 credits, GE 7
This course is concerned with literature as an art form and the ways that literature supports children's language. Students study the various types of literature for children, and gain familiarity with different authors, of both fiction and nonfiction, American and cross-cultural children's books. The creative usage of these forms of literature is applied for both individual and group teaching of young children (preschool, primary and early elementary school-age groups). Prerequisite: ENG 1001, Composition I.

EDU 2200 Introduction to Education, 3 credits
This course provides an overview of schools and schooling for students in grades Pre K-6. It is organized around the principle themes of school, teacher, and curriculum. Topics include preschool, primary and intermediate grade cultures, staff roles, special population needs, issues related to student diversity and multiculturalism, teaching skills, classroom management, and introduction to instructional strategies, state curricula, and current reforms. This course is a gateway course designed to allow students to determine if becoming an early childhood or elementary school educator is an appropriate career choice. Students are asked to view early childhood and elementary education through the lens of a professional teacher, perhaps for the first time. Prerequisites: PSY 1500 General Psychology and PSY 2402 Child Development and Guidance

EDU 2201 Sociological and Philosophical Foundations of Education, 3 credits
This course provides a comprehensive introduction to the historical, sociological, and philosophical foundations of education. Students are required to examine the social purposes of education in historical and contemporary contexts. Students engage in the study of education through the academic disciplines of sociology, history, and philosophy; examine the significance of social differences (class, culture, race/ethnicity, gender, sexual orientation, religion) for education; develop and express a personal philosophy of education; and examine the relationship of schooling to democratic practices and principles. This course includes 30 hours of field work. Prerequisite: PSY 1500 General Psychology

EDU 2202 Early Child/Nursery Ed Practicum I, 5 credits
Practicum experience provides the student with supervised experience in the education, guidance and care of young children. Students have the opportunity to observe appropriate curriculum, then plan and carry out age-appropriate activities. All activities are under the careful supervision of trained staff members in the on-campus Child Development Center. Students receive both written and verbal feedback on their activities and skills. Entry is limited to Early Childhood Education majors. Students must earn a "C" or better to continue in this program. Prerequisites: EDU 1102 Creative Learning Activities and EDU 1207 Observation/Participation in Early Childhood Education

EDU 2203 Teaching Exceptional Children, 3 credits
This course defines categories of exceptional children likely to be encountered in the field of education and human services. The effects of the special needs in the behavior of the individual, the family, and the larger society will be considered. Current approaches of mainstreaming, intervention, and remediation are studied, compared, and when possible, demonstrated or observed. Legal aspects and value issues involving persons with special needs will be explored. Resources available to work effectively with persons from minority cultures, homes where English is not spoken, persons with handicapping conditions, and those who are gifted and talented will be identified.

Prerequisite: PSY 1500

EDU 2206 Early Child/Nursery Ed Field Exp, 5 credits
Supervised Field Experience is an educational partnership with the community, whereby a college student receives career-related, on-the-job training and experience under the supervision of the College and the employer. The student receives credit and a grade for their work. The objective is to provide work experience that gives meaning and direction to the student's total education experience as well as an opportunity to apply the theories and practices presented in the program. Students must pass with a "C" or better to graduate from this program.

Prerequisite: EDU 2202 Early Child/Nursery Ed Practicum I

EDU 2300 Infants and Toddlers, 3 credits
The course is designed to examine the growth and development of infants and toddlers in family or group settings. Care techniques related to dressing, diapering, feeding and sleeping as well as the modification of the environment for optimal development and safety is studied. Observation of infants and toddlers as well as lectures, text, guest lecturers and discussion offer a varied treatment of the topic.

Prerequisites: PSY 1500 General Psychology, and PSY 2402 Child Development and Guidance

EDU 2502 Early Childhood Admin & Supervision, 3 credits
This professional course in early childhood education provides an overview of administration and operation of child care centers, site location and development, regulatory agencies and license requirements, policy formation and development, and planning space and equipment. Topics in supervision include staff selection and management, boards and advisory committees, funding sources and legal responsibilities.

Prerequisite: EDU 2202 Early Childhood/Nursery Ed Practicum I

EDU 2510 Home, School and Community, 3 credits
This course begins by addressing issues of communication, problem-solving, active listening, and perspective-taking. Parenting styles, skills, and training programs are outlined. The impact of the community, its resources and its referral systems is discussed. Throughout the course, awareness of familial diversity and multicultural issues are stressed.

Prerequisites: PSY 1500 General Psychology, and PSY 2402 Child Development and Guidance

EMG 1010 - Introduction to Emergency Management, 3 credits
At no time in our recent history has the need for an understanding of emergency management been more evident. In this course students gain an historical perspective of emergency management and an overview of how the various components of emergency management integrate across the four phases of emergency management - mitigation, preparedness, response and recovery.

EMG 1020 Emergency Response Planning, 3 credits
In order for a community to be truly prepared to respond to any type of emergency, it must develop effective emergency planning. Students learn effective emergency planning related to surviving natural and man-made disasters and study the foundation for the emergency planning process, including the rationale behind planning. They also delve into the patterns of human disaster behavior, social psychology, and communication as well as the basics of generic protective actions, planning concepts, implementation, and action. Pre-requisite: Intro to Emergency Management.

EMG 1030 Emergency Management Leadership, 3 credits
In emergency management, the ability to lead and motivate others is essential. Students learn the contemporary approach to a variety of management theories and explore the best practices for making ethical, compassionate and competent leadership decisions under emergency conditions. Pre-requisite: Intro to Emergency Management.

EMG 1040 Domestic/International Terrorism, 3 credits
Students explore the phenomenon of terrorism through historical perspectives that affect the U.S. and its domestic and foreign policies. Students learn how the United States is combating terrorism internationally and domestically, using strategies that will shape America in the future.

EMG 1500 Principles of Emergency Management, 2 credits
This course is intended to provide information that will enable persons just entering the profession or expanding their roles to have the ability to work with emergency management issues. It will provide an overview of the characteristics, functions, and resources of an integrated system and of how various emergency management services work together in an integration of resources and capabilities. Emphasis will be placed on how this system is applied to all hazards for all government levels, across the four phases, and all functions of emergency management.

**EMG 1520 Pub Safety Critical Incident Mgmt, 1 credit**
This course provides students with information relevant to public safety forces (fire, police, and emergency medical services) roles and responsibilities when responding to an emergency. Additionally, the course provides information dealing with support service agencies and the concerns and roles of private business and local government in supporting public safety forces in emergency situations. It also provides information to encourage cooperation of all groups and agencies at the scene of an emergency, with a key component focusing on the goals and critical tasks of each public safety agency operating at a given scene.

**EMG 1600 Developing Volunteer Resources, 1 credit**
This course allows students to learn the necessary skills to be able to make appropriate volunteer assignments, structure programs to maintain or increase the skill levels of volunteers, and motivate them to both maintain readiness and operate effectively during emergency situations.

**EMG 1620 Resources & Donations Management, 2 credits**
This course is designed to provide Resource Management Coordinators with the knowledge and skills they need to perform resource management functions within the overall framework of the emergency operations center (EON). This performance-based course is intended to introduce local officials (i.e., representatives of local governments and leaders of local voluntary organizations) to the concept of donations management and their roles and responsibilities in the donations management process.

**EMG 1700 Public Information Officer Basic Course, 3 credits**
This course provides students with the skills needed to perform public information duties as they relate to emergency management. It focuses on the definition of the job of the public information officer. The course assists participants with building the skills needed for this position, such as oral and written communications, understanding and working with the media, and the basic tools and techniques PIOs need to do the job.

**EMG 1820 Basic Incident Command System, 1 credit**
The Basic Incident Command System course is designed to increase participants’ knowledge and understanding of the Incident Command System. Utilizing lectures and small group activities, participants will acquire the ability to organize and manage an incident through implementing the ICS. The material covered during the course includes an introduction to the principles and features of ICS, organizational overview, incident facilities, incident resources, and common responsibilities of key ICS positions.

**EMG 1840 Emergency Response to Terrorism, 1 credit**
The Emergency Response to Terrorism course provides the knowledge and skills needed by public safety forces that respond to terrorist acts. The course provides public safety and related support personnel the information to understand terrorism and its root causes and motivations. The course also provides methods to enable students to recognize circumstances indicating a potential terrorist attack and to protect themselves from a variety of potential dangers.

**EMG 2010 Emergency Response – All Hazards, 3 credits**
Students acquire a well-rounded understanding of disaster response. They explore various types of disasters and examine the myriad components that are involved in emergency incidents, the typical challenges encountered and the tools and techniques that will enhance the ability to protect lives, reduce property damage, and minimize disruption. Pre-requisite: Intro to Emergency Management.

**EMG 2020 Incident Command Systems, 3 credits**
Incident Command Systems encompass the management practices used by responders during emergency situations and pre-planned events. Students study and learn Incident Command System structure and responsibilities; including planning, organizing, staffing and incident resource management during these incidents.

**EMG 2030 Emergency Exercise and Design, 3 credits**
A key component of emergency planning and preparedness is the designing and evaluation of emergency exercises. Students study exercise design issues in depth and learn how to design and evaluate emergency
exercises in order to identify and address gaps between plans and capabilities.

**EMG 2040 Weapons of Mass Destruction, 3 credits**
The post-9/11 fear of a terrorist using a weapon of mass destruction has never been more real. Students participate in an in-depth examination of the history, characteristics, availability, dangers and defenses against chemical, biological, radiological, nuclear and explosive weapons.

**EMG 2050 SpTp: From Radicalization to Terrorism, 3 credits, GE 3**
Students examine the process of radicalization and its phases as it pertains to terrorism in the West, especially in the United States and the United Kingdom. Through studying specific case studies, as well as religious, sociological, and political motivators, students explore how radicalization in the West can produce both global and homegrown terrorism. Crosslisted with PSY 1400 and SOC 1400.

**EMG 2520 Disaster Response & Recovery Operations, 2 credits**
The purpose of this course is to introduce students to the basic concepts and operations applicable in a disaster environment (particularly for major disasters) and enhance understanding of the proper roles and responsibilities of various local and state emergency management officials, why they matter, and how these roles and responsibilities relate to those carried out by the Federal government. To foster multi-level partnership, the course emphasizes the problem-solving aspects of disaster operation as well as associated coordination requirements. Prerequisite: EMG 1500 Principles of Emergency Management

**EMG 2560 Mitigation for Emergency Managers, 1.5 credits**
This course addresses the important roles of the emergency program manager or other local government representative in mitigation. It provides the emergency manager direction on how to implement into a locality recognized and accepted national mitigation strategies. The course provides students information helpful in the coordination of public safety agencies, local businesses, and professional organizations. Also provided in the course is information on funding mitigation efforts through public and private sources. Prerequisite: EMG 1500 Principles of Emergency Management

**EMG 2620 Intermediate Incident Command System, 1.5 credit**
The Intermediate Incident Command System course is designed to increase the participants’ knowledge and understanding of the Incident Command System. Utilizing lectures and small group activities, participants will acquire the ability to organize and manage staffing. The material covered during the course includes organization and staffing, organizing incidents and events, incident resource management, air operations, and incident and event planning. Prerequisite: EMG 1820 Basic Incident Command System

**EMG 2700 Emergency Response Planning for Schools, 1 credit**
This course will provide participants with the basic information and tools needed to develop effective plans for the wide array of potential emergencies that schools may face. Participants completing the course will be able to explain the importance of effective planning to others and lead individuals in their schools and community through the process of developing an effective multi-hazard program. Prerequisite: EMG 1780 Emergency Response Planning

**EMG 2780 Emergency Operations Center Management, 1.5 credits**
The EOC Management course provides students with the knowledge and skills they need to design, initiate, build, and operate an Emergency Operations Center. The curriculum is designed using a performance-based approach, which emphasizes learning activities that are easily transferable to the job.

**EMG 2800 Emergency Exercise Program Management, 3 credits**
The Emergency Exercise Program Management course is intended to provide participants with the knowledge and skills to develop and conduct disaster exercises that will test a community's emergency operations plan and operational response capability.

**EMG 2820 Advanced Incident Command System, 1.5 credits**
The Advanced Incident Command System course is designed to increase the participants' knowledge and understanding of the inherent flexibility of the Incident Command System to manage major or complex incidents. Utilizing lectures and small group activities, participants will acquire the ability to organize and manage major or complex incidents. The material covered during the course includes command and general staff duties and responsibilities, unified command, major incident management, and area command structures.

**EMG 2840 Terrorism Response Planning, 2 credits**
This course will help emergency planners, first responders, and others at all levels to review their preparedness efforts and response capabilities to a terrorist incident. It will also assist participants in the ongoing re-evaluations of their threats, current emergency operations plan, and the implications of a terrorist incident on continuity of critical services and long-term recovery.

**ENG 1001 Composition I, 3 credits, GE 10 (in conjunction with ENG 1301 Fundamentals of Speech)**

This is a writing-intensive course in which students draft and revise college-level essays. Students study the conventions of academic prose, examine various methods of organization and development, and learn research skills.

**ENG 1003 Composition I with Writing Studio, 3 credits, GE 10**

Composition I with Writing Studio students meet in a typical Composition I course (3 credits) and also meet separately in a Writing Studio (3 equivalency credits); the two parts create one class and are listed as having the same meeting times and meeting locations on a student’s schedule. In Writing Studio, students learn critical thinking, reading, study, writing, revision, and time management skills designed, primarily, to help them produce college-level writing and pass their Composition I course. Students also work closely with instructors, who act as mentors helping to guide them successfully through their first semester of College. The grade students earn for the typical Composition I portion constitutes the grade for the Composition I with Writing Studio course and the Writing Studio course; however, poor attendance and poor performance in the Writing Studio can lead to failure and withdrawal from both courses. Students who are withdrawn from Composition I with Studio will be withdrawn from Writing Studio and vice versa. Students who fail or withdraw from Composition I with Writing Studio or Writing Studio must take Developmental English DEN 1000 or retake the English Placement exam to determine placement.

Composition I with Writing Studio is a substitute for Composition I for all degree and pre-requisite requirements. Like Composition I, this is a writing-intensive course in which students draft and revise college-level essays. Students study the conventions of academic prose, examine various methods of organization and development, and learn research skills. Composition I with Writing Studio meets the writing component requirement for Gen Ed 10. Corequisite: DEN 1003, SpTp: Writing Studio.

**ENG 1040 Critical Reading I, 3 credits**

Students are introduced to the critical approach of reading, emphasizing strategies to improve reading comprehension and vocabulary. Students examine both the structure of the written word—rhythm, context, connotation, tone, and other areas which affect meaning—and the skills necessary to progress in college level study. Extra hours in the writing lab are required. Students are assigned to take this course based on assessment criteria.

**ENG 1100 Mass Media, 3 credits GE 7**

Students are introduced to mass media-print sound and visual. Mass media is presented as industries which shape, and are shaped by, significant issues. Crosslisted with COM 2100

**ENG 1301 Fundamentals of Speech, 3 credits, GE 10 (in conjunction with ENG 1001 Composition I)**

This course provides public speaking training and practice.

**ENG 1502 SpTp: Close Encounters with Film, 3 credits, GE 7**

Students examine the techniques of filmic expression through a focused, detailed analysis of film form and ideology in celebrated cinematic works from around the world. Course content is organized around the establishment or subversion of narrative, generic, and stylistic conventions through the works of one director, a particular genre, or a film movement. Prerequisite: ENG 1001 Composition I. Crosslisted with HUM 1502.

**ENG 2001 Introduction to Literature, 3 credits, GE 7**

This course offers a variety of readings in fiction, poetry and drama. Prerequisite: ENG 1001 Composition I.

**ENG 2004 Creative Writing I, 3 credits, GE 8**

This course provides directed practice in the creative process of writing. Prerequisite: ENG 1001 Composition I.

**ENG 2005 Composition II, 3 credits**

This course emphasizes analytical skills in both writing and reading. Students write analytical and argumentative essays and a research paper. Prerequisite: ENG 1001 Composition I.

**ENG 2007 South African Literature, 3 credits, GE 6, GE 7**
Students examine the prose, drama, and film created by the multi-ethnic voices of the country, from the oral traditions of the indigenous people to the works of modern South African writers and film makers. This course is inter-disciplinary, examining the relationship of history and culture. Prerequisite: ENG 1001 Composition I.

ENG 2008 Creative Nonfiction, 3 credits, GE 7, GE 8
Students will write and revise a variety of creative nonfiction essays, paying particular attention to the relationships between form and content, audience and purpose. Students also will workshop papers and discuss the work of published authors. Note: For the purpose of transfer, this course is not a substitute for Composition II. Prerequisite: ENG 1001 Composition I.

ENG 2009 SpTp: Performance Poetry, 3 credits, GE 8
Through in-class writing assignments, performances of their own and other poets' works, theater exercises, critiquing poetry performance videos, and discussions of student work, students produce and perform poetry of increasing quality. Prerequisite: ENG 1001 Composition I.

ENG 2030 The Comic Vision, 3 credits
Students study the nature of comedy in poetry, fiction and drama. Prerequisite: ENG 1001 Composition I.

ENG 2032 SpTp: Shakespeare's Romantic Comedies, 3 credits
Students examine and analyze Shakespeare's romantic comedies, placing the plays within the context of English Renaissance culture, aesthetics, and the genre of comedy. Prerequisite: ENG 1001 Composition I.

ENG 2100 Masterpieces of Literature, 3 credits, GE 7
Selected great works of literature are examined in English through a variety of approaches. Prerequisite: ENG 1001 Composition I.

ENG 2107 SpTp: The Graphic Novel, 3 credits, GE 7
Students will analyze the graphic novel in the context of literary studies, especially the way that narrative fiction using sequential art functions in popular culture both in a contemporary and historical context. Prerequisite: ENG 1001 Composition I.

ENG 2117 American Literature I, 3 credits, GE 7
Students study the development of American thought through the study of representative American authors from colonial times through the romantic period. Prerequisite: ENG 1001 Composition I.

ENG 2118 American Literature II, 3 credits, GE 7
Students study representative American authors from the romantic period until the present. Prerequisite: ENG 1001 Composition I.

ENG 2122 The Modern Novel, 3 credits, GE 7
This course acquaints the student with the historical growth and aesthetic directions of contemporary fiction and develops the student's critical and interpretive faculties. Prerequisite: ENG 1001 Composition I.

ENG 2123 20th Century Literature, 3 credits, GE 7
Students focus on some of the significant works of the twentieth century. The novels, plays and poetry of several American, British and European authors are read and discussed. Prerequisite: ENG 1001 Composition I.

ENG 2127 SpTp: Young Adult Literature, 3 credits, GE 7
Students study literature for young adults, with an emphasis on works for readers in high school or within a high school curriculum. Texts will include both traditional and graphic novels employing a variety of issues that move beyond the traditional "coming of age" texts, including sexuality, psychology, race, gender, ethnicity, and child development. Students examine works from a variety of genres, which may include realism, fantasy and science fiction, and poetry. Prerequisite: ENG 1001 Composition I.

ENG 2128 SpTp: Film Directors, 3 credits, GE 7
In this course, students analyze the multiple aspects of feature filmmaking, as well as film's social and ideological impacts, through the study and discussion of a single director's film oeuvre. The choice of directors may vary. Prerequisite: ENG 1001 Composition I. Crosslisted with HUM 2128.
ENG 2130 Modern Poetry, 3 credits, GE 7
Students examine major poets of the modern period in both England and America. Prerequisite: ENG 1001 Composition I.

ENG 2132 Introduction to Poetry, 3 credits, GE 7
This course is designed to acquaint the student with the essentials necessary for a more thorough understanding and appreciation of poetry. Some topics of study will be denotation, connotation, figurative language, imagery, and tone. Prerequisite: English 1001 Composition I.

ENG 2142 Modern Drama, 3 credits, GE 7
Students examine contemporary playwrights, beginning with Ibsen. Prerequisite: ENG 1001 Composition I

ENG 2146 Shakespeare, 3 credits, GE 7
Students examine and analyze representative examples of Shakespearean tragedies, comedies and historical plays. Prerequisite: ENG 1001 Composition I

ENG 2150 The Short Story, 3 credits, GE 7
Students examine the short story as a tradition and as a mode of contemporary fiction. Prerequisite: ENG 1001 Composition I

ENG 2170 Gothic Lit: Seduction, Sex, Blood, 3 credits, GE 7
Students analyze the historical inception and evolution of Gothic fiction and themes, including sexuality and the supernatural, from the eighteenth century to the present. Particular attention is paid to the political and cultural forces that led to the creation and continued success of the genre, as well as the literary elements and techniques that make Gothic fiction a unique category of artistic expression. Prerequisite: ENG 1001 Composition I.

ENG 2176 English Literature I, 3 credits, GE 7
This course provides an introduction to significant works of English literature from the Middle Ages (before 1485) to the Restoration and early eighteenth century (early 1700s), with particular attention paid to literary trends and traditions, forms, and history. Prerequisite: ENG 1001 Composition I.

ENG 2177 English Literature II, 3 credits, GE 7
This course provides an introduction to significant works of English literature from the Neoclassical and Romantic Periods (mid-to-late 1700s) to the Modern Period (early 1900s), with particular attention paid to literary trends and traditions, forms, and history. Prerequisite: ENG 1001 Composition I.

ENG 2200 Media Writing Techniques, 3 credits
Students examine the techniques used in writing for radio and television. Emphasis is placed on the ability to apply skills in a variety of writing assignments, including commercials, newscasts, and drama. Crosslisted with COM 2200.

ENG 2285 Introduction to Film, 3 credits, GE 7
This course introduces students to aesthetic, formal, rhetorical, and social conventions of film. Students examine the multiple ways that cinema produces meaning and consider what distinguishes film from the other arts. Crosslisted with HUM 2285. Prerequisite: ENG 1001 Composition I

ENG 2286 Literature to Film Adaptation, 3 credits, GE 7
This course offers a comparative look at the aesthetic, formal, rhetorical, and social conventions of literature and film. Students examine the complex relationship that has evolved between word and image through the multiple ways literature and film have modified one another since film’s invention. Prerequisite: ENG 1001 Composition I

ENG 2288 SpTp: American Popular Culture, 3 credits, GE 7
In this course students study the wide variety of literary manifestations of American popular culture as reflections and symptoms of the concerns of modern American society. Prerequisite: ENG 1001 Composition I. Crosslisted with HUM 2288.

ENG 2301 Advanced Speech, 3 credits
This course is designed for students who have demonstrated the speaking ability to successfully prepare, interpret and deliver a wide range of advanced material utilizing a variety of techniques. Prerequisite: ENG 1301 Fundamentals of Speech
ENG 2516 SpT: Cane & Able: Culture and Disability, 3 credits, GE 7
Historically, people with disabilities have been killed, isolated, and exempted from citizenship by the allegedly able-bodied. To better understand disability's pervasive role in our knowledge, values, and perceptions of others, students take a multi-media and interdisciplinary approach to examining disability in its multiple forms—the visible and invisible, physical and cognitive, psychological and social. Prerequisites: PSY 1500 General Psychology; ENG 1001 Composition I. Crosslisted with PSY 2516.

ENG 2701 Journalism I, 3 credits, GE 7
This course is an introduction to basic concepts and procedures in journalism. Students are exposed to an overview of the history of journalism and the ethical practice of it. Through ongoing analysis of professional and student news and by examining topics of interest to the campus community, students work as a team to write and edit articles for the digital student news site. Prerequisites: ENG 1001 Composition I.

ENG 2702 Journalism II, 3 credits, GE 7
This course is a continuation of Journalism I. Students enhance their journalistic skills and take leadership roles in the production of the digital student news site. Prerequisites: ENG 2701 Journalism I.

ENG 2926 African-American Literature, 3 credits, GE 7
This course focuses on some of the most important works of African-American literature from colonial times to present. The novels, plays, and poetry of African-Americans are read and discussed. Prerequisite: ENG 1001 Composition I.

ENG 2933 Women in Literature, 3 credits, GE 7
This course introduces students to representations of women in literature. It will consider issues of gender in relation to sexuality and culture and encourage students to consider their own perceptions of women in literature within their cultural, historical, and political relationships. Prerequisite: ENG 1001 Composition I.

ENG 2960 Creative Writing II, 3 credits
This is an intensive workshop-based class for students who have completed ENG 2004: Introduction to Creative Writing. Students will have the opportunity to workshop their own poetry and fiction. We will also analyze published poems and stories in order to better understand how great writers construct their work.

FIR 1010 Introduction to Fire Technology, 3 credits
This course is an essential component within the Fire Protection Technology core group. The student is introduced to the field of fire protection technology through a review of tragic fires of yesterday to provide a historical perspective on the development of fire safety practices in place today. Students are introduced to the chemistry and behavior of fire in order to develop an understanding of how technology is applied to detect, control and suppress fire today.

FIR 1020 Introduction to Fire and Emergency Services Administration, 3 credits
The premise of the course is to provide an introductory understanding of the administrative, management and leadership skills that are required in today’s fire and emergency services. To accomplish this goal, the history and past practices of the Fire Service will be examined. An overview of the administration, financial management, human resources, customer service, training, educational requirements, and health and safety issues of the Fire and Emergency service will be explored.

FIR 1030 Principles of Building Construction, 3 credits
This course is part of the Fire Protection Technology core group. It is designed to introduce the student to methods and techniques of building construction and how building construction impacts both fire behavior and the life safety of building occupants. Students are also introduced to the causes of building failures (structural collapse) and the role of interior finish in fire spread and toxic gas production.

FIR 1110 - Fire Hazard Properties of Materials, 3 credits
This course will introduce the student to various chemical and physical properties of solid, liquid, and gaseous materials that contribute to their potential for fire and explosion. Reactivity and health hazards will also be examined. The student will review basic combustion chemistry and chemical terminology. The student will be introduced to identification systems for hazardous materials, transportation practices, storage practices, and fire control strategies for a wide range of flammable and combustible substances.

FIR 2010 - Fire Service Hydraulic Theory and Application, 3 credits
This course of study is designed to provide the student with a thorough understanding of the scientific laws of
hydraulics and a working knowledge of pumps at all levels befitting today's professional fire fighter. Students will examine theories of hydrostatics and hydrokinetics, velocity and discharge, and water distribution systems; including mains, hydrants, standpipe and sprinkler systems, and fire hose. Design, testing and use of fire pumps, fire appliances, fire fighting foams and foam systems are also discussed. For the student to be successful in the study of hydraulics, a basic comprehension of math and chemistry is required. Prerequisites: FIR 1010 Introduction to Fire Technology.

FIR 2020 - Strategic and Tactical Consideration on the Fireground, 3 credits
The purpose of this course is to address the uncontrolled environment of the fire service professional. The many uncertain factors that influence the fireground are learned through experience however; pre-incident factors such as training, planning and the experience of the fire officer professional have a tremendous influence on the outcome of the fire scene. The student learns about the influence of the building construction, incident site management and their role in a successful outcome of a fireground incident. Prerequisites: FIR 1010 Introduction to Fire Technology.

FIR 2030 - Fire Protection and Detection Systems, 3 credits
A study of the various types of fire detection and extinguishing systems. Portable fire extinguishers, sprinkler systems and special agent systems are discussed. The operation of municipal and private alarm systems, automatic fire detection systems and guard services are also examined.

FIR 2040 Fire Safety and Building Codes, 3 credits
This course examines the importance of building codes promoting the life safety of building occupants. The student is introduced to the nature of human physiological and psychological responses to fire and its by-products. Topics include: combustion pharmacology, adaptive and non-adaptive behavior, life safety assessment in buildings, concepts of egress design, the history and origins of NFPA 101 Life Safety Code (a model code), contrasting performance codes and specification codes, fire modeling, and the "defend in place" concept. Historic multiple death fires are also examined for the lessons they offer. Prerequisites: FIR 1030 Principles of Building Construction.

FIR 2070 - Legal Aspects of the Fire and Emergency Services, 3 credits
The focus of this course is the exploration of the many legal issues associated with fire and emergency services. Issues confronting today's fire and emergency services include legal and civil liability, Occupational Safety and Health Administration (OSHA) compliance, workers compensation, physical abilities testing, negligence, discrimination and sexual harassment. These are but a few of the pivotal issues confronting today's fire and emergency services. Prerequisites: FIR 1010 Introduction to Fire Technology.

FIR 2110 - Investigation and Detection of Fire Incidents, 3 credits
This course examines the causes of incendiary and accidental fires. In the study of intentional fires and explosions the scientific method is the analytic process now used that leads to accurate and defensible conclusions in fire investigation. The course will focus on the application of this process and create a sound basis for the student to use when evaluating fire scenes, preparing reports, gather evidence and offer testimony in an arson investigation case. Topics discussed include: investigation techniques, interrogation, reports, court procedures, testimony, legal opinions and processing of criminal evidence. State and local statutes related to the crime of arson are examined.

FIR 2730 - Fire and Emergency Service Field Experience / Internship, 3 credits
A fire science technology internship will allow students to develop new skills in this demanding field of study. The opportunity of learning outside of the traditional classroom is an important component to a student's overall education. The students will enhance their understanding and expand their knowledge of the complexities of today's fire science and emergency services first responder and the many other support areas that are needed in this field. This course enables the student to experience and evaluate many areas of fire science and emergency services, providing an opportunity to expand their understanding of the goals and philosophy of these specific agencies through a hands-on work experience. Prerequisites: FIR 1010 Introduction to Fire Technology, FIR 1020 Introduction to Fire and Emergency Services Administration, FIR 1030 Principles of Building Construction.

FLA 1410 Japanese Language I, 3 credits, GE 9
This is an introductory course to provide students with a fundamental knowledge of Japanese grammar, form, structure and the sociolinguistic contexts in which the language is used. Also, considerable time will be spent studying Japanese cultural values, and how an understanding of human relationships in Japan can greatly enhance the individual student's mastery of Japanese language skills.

FLA 1445 Spanish Language and Culture I, 3 credits, GE 9
This course provides students with exposure to Spanish culture through the study of language, utilizing popular
media and a culture-oriented text. The course covers language structure essential for basic communication in Spanish.

**FLA 1455 French Language and Culture I, 3 credits, GE 9**
This course provides an exposure to French culture through the study of language, utilizing popular media and a culture-oriented text. The course covers the language structure essential for basic communication in French.

**FLA 1458 SpTp: German Language and Culture I, 3 credits, GE 9**
This course will cover language structure essential for basic communication in German. The course provides students with exposure to German culture through the study of language, utilizing popular media and a culture-oriented text.

**FLA 1809 American Sign Language I, 3 credits, GE 9**
* This course introduces students to the language and culture of persons in the Deaf community. Students demonstrate a basic competence in the structural elements of American Sign Language, including non-verbal communication techniques, grammar principles, basic vocabulary, and conversational skills. Students examine the role of American Sign Language within the context of the culture of the Deaf community.

* American Sign Language may be used to satisfy this category only by students in the following programs:
  - programs leading to certification in elementary and secondary education;
  - programs leading to careers where there is likely to be significant contact with the hearing-impaired.

**FLA 1921 Latin I, 3 credits, GE 9**
This course introduces students to the basics of ancient Latin. Students learn the grammar and vocabulary necessary to read Roman literature.

**FLA 1922 Latin II, 3 credits, GE 9**
Continuing where Latin I left off, this course introduces students to the basics of ancient Latin. Students learn the grammar and vocabulary necessary to read Roman literature. Prerequisite: FLA 1921 Latin I

**FLA 2410 Japanese Language II, 3 credits, GE 9**
This course is a continuation of FLA 1410 with greater emphasis on elementary oral and aural skills. Prerequisite: FLA 1410 Japanese Language and Culture I

**FLA 2445 Spanish Language and Culture II, 3 credits, GE 9**
This course is a continuation of FLA 1445 with greater emphasis on elementary oral and aural skills. Prerequisite: FLA 1445 Spanish Language and Culture I

**FLA 2446 Spanish Language and Culture III, 3 credits, GE 9**
This course is a continuation of FLA 2445 together with an introduction to Spanish literature and more detailed language study. This is an intermediate level course. Prerequisite: FLA 2445 Spanish Language and Culture II

**FLA 2447 Spanish Language and Culture IV, 3 credits, GE 9**
This course is a continuation of FLA 2446. This is an intermediate level course. Prerequisite: FLA 2446 Spanish Language and Culture III

**FLA 2455 French Language and Culture II, 3 credits, GE 9**
This course is a continuation of FLA 1455 with greater emphasis on oral and aural skills. This is an elementary level course. Prerequisite: FLA 1455 French Language and Culture I

**FLA 2456 French Language and Culture III, 3 credits, GE 9**
This course is a continuation of FLA 2455 together with an introduction to French literature and more detailed language study. This is an intermediate level course. Prerequisite: FLA 2455 French Language and Culture II

**FLA 2457 French Language and Culture IV, 3 credits, GE 9**
This course is a continuation of FLA 2456. This is an intermediate level course. Prerequisite: FLA 2456 French Language and Culture III

**FLA 2458 SpTp: German Language and Culture II, 3 credits, GE 9**
This course is designed to develop listening, reading, speaking, and writing skills in German. This course also gives the student a solid understanding of culture in the German speaking realms. Linguistic structures for everyday conversation will be introduced as well as a high priority of the class is to assist students in obtaining a high level of
oral proficiency. Prerequisite: FLA 1458 German Language and Culture I or equivalent knowledge of German language and culture.

**FLA 2809 American Sign Language II, 3 credits, GE 9**
This course is an expansion of American Sign Language I with emphasis on increasing receptive and expressive conversational skills through vocabulary growth, use of idioms and creativity. Students further investigate the Deaf community as it defines its own culture and how it relates to that of the Hearing world. Prerequisite: FLA 1809 or equivalent based upon the assessment of the instructor.

*American Sign Language may be used to satisfy this category only by students in the following programs:
- programs leading to certification in elementary and secondary education;
- programs leading to careers where there is likely to be significant contact with the hearing-impaired.

**GEO 1700 World Geography, 3 credits, GE 3, GE 6**
The purpose of this course is to provide an introduction to the geographic analysis of various regions of the world. Emphasis is placed upon each region's major natural environmental features (terrain, climate, natural vegetation, and natural resources) and how these features relate to and influence man's occupation and culture of the region.

**GIS 1102 Intro Geographic Information Tech, 3 credits**
This course provides introductory experience in various aspects of Geographic Information Technologies (GIT). Basic theories and applications of GIT are discussed and students gain hands-on training for collecting, editing, manipulating, processing, and integrating spatial or geographic data from diverse sources. Students use a variety of software in completing assignments and projects.

**GRB 1001 Sustainability Seminar, 1 credit**
This course is designed for first time, full time students who are pursuing careers related to green technologies. The course will provide an overview of key environmental challenges and issues related to sustainability, and key components of a green-collar economy.

**GRB 1100 Introduction to Green Buildings, 3 credits**
In this course, students study the principles, methods, and equipment associated with sustainable building systems and design. Topics include ecological design, energy efficiency, passive and renewable energy, water conservation and treatment, sustainable site selection, green building materials, indoor and outdoor environmental quality, and building assessment tools.

**GRB 1200 Intro to Renewable Energy Systems, 3 credits**
In this course, students study the principles, methods, and equipment associated with renewable energy systems. Topics include solar, wind, biomass and biofuels, fuel cells, hydropower, oceanic energy, geothermal, and energy storage. Nonrenewable energy sources, climate change, and the economics and politics of energy are also discussed.

**GRB 1300 Energy Management, 3 credits**
In this course, students learn how to calculate, measure, and manage the energy consumption of buildings. Students learn to navigate the growing list of energy efficiency strategies and technologies. Topics include energy auditing, accounting, monitoring, targeting, and reporting; energy management opportunities; and project and financial management.

**GRB 1400 Green Building Materials, 3 credits**
In this course, students learn how to take longevity, cost, performance, and environmental factors into account when making decisions about various building materials and products. This course covers both the selection and specification processes for green building materials. Environmentally preferable purchasing guidelines related to cleaning, maintenance, and other materials and supplies are also covered.

**GRB 1501 SpTp: Straw Bale Construction, 1 credit**
This course offers students hands-on experience in straw bale construction and earthen plasters. Students will work together to build a small straw bale structure in its entirety. Topics include basic techniques for straw bale construction, handling and cutting of bales, construction of bale walls, and preparation and application of plasters. Additional topics may include straw bale design, site selection and preparation, framing, and finishing work.

**GRB 1502 SpTp: Straw Bale Construction II, 1 credit**
This course offers hands-on experience in straw bale construction. The focus will be on the preparation and application of gypsum, lime, and earth plasters. Other finishing work will also be included in this course.
GRB 2100 Building Automation & Controls, 3 credits
In this course, students learn the basic principles of building automation and controls for energy management. Topics include control devices, signals, logic, and applications for various systems, such as electrical, lighting, HVAC, plumbing, fire protection, security, access control, voice-data-video, and elevator systems.

GRB 2200 Solar & Wind Systems, 3 credits
In this course, students learn the basic principles of photovoltaic and wind generated power, with an emphasis on how to maintain and manage these technologies, as well as the buildings with which they are associated. The key components and principles, site issues, and economic considerations of solar and wind systems are covered.

GRB 2300 Commercial Electrical, 3 credits
In this course, students learn about the essential components of the electrical systems of commercial buildings. Topics include reading commercial building plans and specifications, computing electrical loads, branch circuits and components, and electronic service equipment. Electrical considerations specific to renewable energy systems are also covered.

GRB 2400 Care of Green Spaces, 3 credits
In this course, students learn to make decisions about the design and maintenance of the green spaces incorporated in and around green buildings. Topics include site protection and restoration, materials and plant selection, sustainable water strategies, noise and light abatement, and maintenance of green spaces.

GRB 2500 Troubleshooting Green Building Systems, 3 credits
In this course, students apply their knowledge of sustainable building systems, energy management, renewable energy, green building materials, and other green building principles to analyze and solve specific problems related to building maintenance and management. Building assessment tools related to sustainable design, construction, operations, and maintenance are utilized.

GRB 2600 Green HVAC, 3 credits
In this course, students learn the basic principles of heating, ventilation, and air conditioning (HVAC) systems in commercial buildings, with an emphasis on energy efficiency and renewable energy. Topics include heat loss calculations, fuels and combustion, waste heat recovery, and maintenance considerations for these systems.

HIS 1016 World War II, 3 credits, GE 4, GE 6
This course examines the world at war, 1939-45. Particular attention is given to the causes of the war, the principle battles fought in Europe and in Asia, and the resulting aftermath. Documentary films are incorporated, where appropriate.

HIS 1023 The Vietnam Experience, 3 credits, GE 6
Students examine the Vietnam War and its profound effect on the people and society of both Vietnam and the United States. Students learn the background on events leading up to the war and explore its lasting effects on post-war society.

HIS 1204 Western Civilization Before 843, 3 credits, GE 5
This course is an introductory study of the political, economic, social, and cultural development of Western society and its institutions. The period covered will extend from the origin of civilization in the ancient Near East and the Mediterranean world to the rise of Islam and the beginnings of Carolingian Europe.

HIS 1205 Western Civilization from 843 to 1648, 3 credits, GE 5
This course is an introductory study of the social, political and cultural development of western civilization from the Treaty of Verdun that divided the Carolingian Empire in 843, through the end of the Thirty Years' War in 1648.

HIS 1206 Western Civilization Since 1648, 3 credits, GE 5
This course is an introductory study of the political, economic, social and cultural development of Western Civilization and its institutions. It covers the material, from the Enlightenment to the present. Particular attention is given to the major revolutions, the rise of modern nation states, and the causes and effects of twentieth century conflicts.

HIS 1207 SpTp: Cultural History of Italy, 3 credits, GE 5
Students in this course analyze the historical, political, and cultural development of Italy. This involves consideration of the area's rich regional diversity, including the autonomous South Tyrol in the Alps, the Republic of
Italy, the island of Sicily, and the Vatican.

**HIS 1208 SpTp: Cultural History of Japan, 3 credits, GE 6**
Students in this course analyze the historical, political, and cultural development of Japan. This involves consideration of the area’s rich regional diversity and heritage.

**HIS 1215 SpTp: American History Through Film, 3 credits, GE 4**
This course examines twentieth-century American history through film. Students explore key periods in recent American history and then watch popular films from each era, whereupon they critically analyze how American cultural and social conflicts are portrayed and resolved in popular films and how motion pictures create a window into American culture and society. Students examine also the history of the American film industry. Crosslisted with HUM 1215.

**HIS 1223 History of Africa, 3 credits, GE 6**
This course examines the history of the continent of Africa from the emergence of early humans to the present. Topics include: Pre-history, Nations and Empires of the Classical Age, Encounters with Europe, the Colonial Period, Independence, and the New Nations Coming of Age on a Global Stage. Emphasis is placed on sub-Saharan Africa.

**HIS 1224 The History of the African-American, 3 credits, GE 4**
Students study the role played by the African-American in the history of the United States from the introduction of slavery to the present time. Emphasis is placed on the influence of slavery, political, social and economic developments, as well as on the growth of the African-American protest groups in the twentieth century.

**HIS 1225 SpTp: History of Slavery, 3 credits, GE 6**
In this course students analyze important dates, facts, persons, and places related to the history of slavery. Slavery is discussed as a phenomenon of political, economic, social, and cultural import, utilizing detailed archaeological and historical accounts. Though the course is not limited to one region or people, there is an emphasis on the institution of slavery as it was practiced in the Atlantic World, largely between Africa and the Americas.

**HIS 1226 History of Women in America, 3 credits, GE 4**
This course examines the chronology of American history from colonial times through the 1980s with an emphasis on women’s perspectives and experiences. The course also explores general experiences of women in America including their political, social, and familial relationships.

**HIS 1227 U.S. History Until 1860, 3 credits, GE 4**
This course is a study of the development of the United States from the pre-Columbian era to 1860. Students will analyze the European arrival in the Americas, expansion of colonial settlements, the American Revolution, the creation of the U.S. Constitution, Jacksonian democracy, westward expansion, and slavery.

**HIS 1228 U.S. History 1860 to 1940, 3 credits, GE 4**
This course provides a survey of the development of the United States from the Civil War period to 1940. Students will analyze the Civil War, post-Civil War agricultural and industrial revolutions, urbanization, immigration, the emergence of the United States as a world power, World War I, and the Great Depression.

**HIS 1229 U.S. History Since 1940, 3 credits, GE 4**
This course surveys and examines selected problems and opportunities facing the United States in the 20th century and early 21st century. Students will analyze significant social, economic, and political changes in contemporary American life since 1940.

**HIS 1252 Modern History of Latin America, 3 credits**
This course is designed to broaden student’s knowledge of the modern history of Latin America. The class covers the major Latin American countries from the colonial period to the present day. Central themes include European-New World interaction, racial identity, military takeovers, and US involvement in the region. The class also looks at current events concerning Latin America, including NAFTA, the increasing trend toward democratic politics, and the large-scale immigration of Latin Americans into the United States.

**HIS 1261 History of the Holocaust, 3 credits, GE 5**
This course is designed to broaden students’ knowledge of the Holocaust. The class examines the formation and growth of the Nazi movement, the mass deportations, the concentration camps, and the experience during and after the war of the survivors of those camps.
HIS 1270 Development of Modern Middle East, 3 credits, GE 6
This course explores the development of the modern Middle East by examining, first, the religious, cultural, and historical background that has shaped the modern era and second by looking at the present political, economic, and social composition of the region. Particular attention is paid to the influential ideologies of the region, the diverse political and ethnic conflicts, the differing leadership styles of political figures, the interests and roles of the superpowers, and most of all, to the way the complex interaction of all of the above creates the modern Middle East.

HIS 1287 Introduction to East Asia, 3 credits, GE 6
This course provides a survey of the major political, social, and economic features of East Asia, with emphasis given to China, Japan, and Korea. Students examine the ideas and ideals that shaped modern East Asia, from Confucianism to Communism, as well as explore the current trends and future directions of this vast region.

HIS 1290 History of Sullivan County, 3 credits
Students learn the history of Sullivan County from its glacial formation through the Indian and early settlement period to the present. Some of the special subjects to be covered include: rafting, the tanning industry, the Delaware & Hudson (D&H) Canal, railroads, resorts, and current trends in Sullivan County.

HIS 1300 History of the US Environmental Movement, 3 credits, GE 4
In this course, students study the history of the U.S. environmental movement. Students examine different approaches to environmental protection and restoration in view of the movement's historical roots, as well as contemporary debates. Crosslisted with SUS 1300.

HIS 1301 SpTp: US History and the Paranormal, 3 credits, GE 4
Students study the connection between United States History and a wide range of beliefs -- commonly referred to as paranormal -- that do not fit within accepted scientific, cultural, or social boundaries. Students analyze how these phenomena can be understood within the context of changes in American society. Examples may include: the Salem Witch Trials and demographic changes in the Colonies; Spiritualism and gender roles in Antebellum society; séances, scientific advances, and the industrial revolution; and UFOs, xenophobia, and the Cold War.

HIS 1907 History of World Religions, 3 credits, GE 6
This course explores the development of the world’s religious and wisdom traditions within the cultural and historical contexts from which they have emerged. It addresses their origins, institutions and ideas as well as examines how their values and world views have influenced contemporary life in various world cultures.

HIS 2100 SpTp: The Cold War, 3 credits, GE 5, GE 6
In this course students analyze the history of the Cold War from its beginnings at the end of World War II to the fall of Communism in Europe in 1989. This includes an in depth consideration of how our present world has been shaped by the post World War II international organizations, the rivalries and policies of the great powers in the context of emerging third world nations, and the seminal crises and events of the Cold War to include among others: the Korean War, the Suez Crises, the Vietnam War, the Cuban Missile Crisis, the Arms Race, the Space Race and Détente. PREREQUISITE: A Western Civilization course (HIS 1204, HIS 1205, HIS 1206), or a US History Course HIS 1227, HIS 1228, HIS 1229), or permission of the instructor

HON 1010 Honors Forum I: Freshman Experience, 1 credit
This class serves as an orientation to collegiate life and the Honors Program. Students work with Honors instructors and second-year Honors mentors to develop skills for academic success. This course is “pass/fail.”

HON 1011 Honors Forum: Service Learning I, 1 credit
Students co-create a culture of excellence through their individual performance and by completing class service projects, which fit into an over-arching service learning program as determined by the Honors Coordinator and Honors students on a yearly basis. In Service Learning I students focus on taking part in the implementation of the service learning projects. This class is pass/fail. Service Learning I and Service Learning III meet at the same time in the Fall only.

HON 1012 Honors Forum: Service Learning II, 1 credit
Students co-create a culture of excellence through their individual performance and by completing class service projects, which fit into an over-arching service learning program as determined by the Honors Coordinator and Honors students on a yearly basis. In Service Learning II students focus on taking part in the implementation of the service learning projects and on planning the projects and program for the next year. This class is pass/fail.
Service Learning II and Service Learning IV meet at the same time in the Spring only.

HON 1020 Honors Forum II: Academic Research, 1 credit
Students study forms of academic research in various disciplines. Each student chooses a research topic and develops an extensive annotated bibliography and research essay. This course is “pass/fail.”

HON 1021 Honors Research I, 1 credit
Honors Research: Students work with the Honors Coordinator, who acts as their mentor, on the transition into college in the first semester and onto a capstone research project, which culminates in the fourth semester. In Honors Research I students collaborate with a mentor to acclimate to the College and the Honors Program. This is a hybrid course, combining online work with individual conferences, and full-class sessions as needed. These courses are available only to students in the Honors Program.

HON 1022 Honors Research II, 1 credit
Honors Research: Students work with the Honors Coordinator, who acts as their mentor, on the transition into college in the first semester and onto a capstone research project, which culminates in the fourth semester. In Honors Research II students analyze research methods. This is a hybrid course, combining online work with individual conferences, and full-class sessions as needed. These courses are available only to students in the Honors Program.

HON 1901 Legacy of Western Society I, 3 credits, GE 5
This course offers a broad survey of seminal works and ideas from Greek civilization up through the Middle Ages. Students focus on connections between these works and modern experience.

HON 1902 Legacy of Western Society II, 3 credits, GE 5
This course is a continuation of HON 1901 and surveys works from the Middle Ages up through contemporary times. Students focus on exploring ways these works have shaped modern consciousness.

HON 2010 Honors Forum III: Service Learning, 1 credit
Students mentor incoming freshman Honors students and participate in the development and completion of a service learning project. This course is “pass/fail.”

HON 2013 Honors Forum: Service Learning III, 1 credit
Students co-create a culture of excellence through their individual performance and by completing class service projects, which fit into an over-arching service learning program as determined by the Honors Coordinator and Honors students on a yearly basis. In Service Learning III second year students focus on taking part in the implementation of the service learning projects and mentoring first year students through Service Learning I. This class is pass/fail. Service Learning I and Service Learning III meet at the same time.

HON 2014 Honors Forum: Service Learning IV, 1 credit
Students co-create a culture of excellence through their individual performance and by completing class service projects, which fit into an over-arching service learning program as determined by the Honors Coordinator and Honors students on a yearly basis. In Service Learning IV students focus on taking part in the implementation of the service learning project and on assessing the projects and program of the past year. This class is pass/fail. Service Learning II and Service Learning IV meet at the same time in the Spring only.

HON 2020 Honors Forum IV: Leadership, 1 credit
Students select a topic of significance in contemporary society and develop a presentation on that topic that they deliver in a public forum. This course serves as a discussion opportunity for students and as a forum for special projects and activities. This course is “pass/fail.”

HON 2023 Honors Research III, 1 credit
Honors Research: Students work with the Honors Coordinator, who acts as their mentor, on the transition into college in the first semester and onto a capstone research project, which culminates in the fourth semester. In Honors Research III students formulate and plan a capstone project. This is a hybrid course, combining online work with individual conferences, and full-class sessions as needed. These courses are available only to students in the Honors Program.

HON 2024 Honors Research IV, 1 Credit
Students work with the Honors Coordinator, who acts as their mentor, on the transition into college in the first semester and onto a capstone research project, which culminates in the fourth semester. In Honors Research IV
students complete a capstone research project in their chosen area. This is a hybrid course, combining online work with individual conferences, and full-class sessions as needed. These courses are available only to students in the Honors Program.

**HUM 1002 Theory and History of Design and Color, 4 credits, GE 8**
Students analyze the principles of design and their historical relationship to society, including fashion, industry, architecture, and advertising. This analysis requires the application of historical and theoretical concepts in order to examine and present examples of movement, relationships, tension, order, and rhythm. Students furthermore create visual solutions demonstrating clarity, reason, and drama through conceptual layouts, computer experimentation, and the study of integrated color and typography.

**HUM 1110 20th-Century Art, 3 credits, GE 7, GE 8**
Students study Western art, architecture, decorative arts, photography, advertising art, and graphic design. The "Arts and Crafts Movement" through "Deconstruction" is analyzed.

**HUM 1200 Music Appreciation, 3 credits, GE 7, GE 8**
This is a general course to develop discriminating understanding and enjoyment of music through the study of its various elements, forms and styles.

**HUM 1204 Introduction to Jazz, 3 credits, GE 7, GE 8**
Students study jazz as an American art form, tracing its African and European beginnings to the present time, with emphasis on the contributions made to Jazz by Black Americans.

**HUM 1214 History of American Popular Music, 3 credits, GE 7**
Students analyze the development of popular music in America in the context of its role in popular culture and cultural studies. Musical styles from the early 20th century to the present may be covered.

**HUM 1215 SpTp: American History Through Film, 3 credits, GE 4**
This course examines twentieth-century American history through film. Students explore key periods in recent American history and then watch popular films from each era, whereupon they critically analyze how American cultural and social conflicts are portrayed and resolved in popular films and how motion pictures create a window into American culture and society. Students examine also the history of the American film industry. Crosslisted with HIS 1215.

**HUM 1216 SpTp: The History of Ideas, 3 credits, GE 7**
In this interdisciplinary class, students explore concepts of “identity” and “knowledge” as they have been historically, socially, scientifically, and culturally constructed. Though “identity” and “knowledge” are fairly modern constructions, the practice of questioning “who am I?” and “how do I know what I know” remain timeless. In this class we attempt to understand how and why humanity has climbed the often shifting mountain of knowledge, all the while pushing, pulling, or carrying the evolving rock of identity with them. Approaches in the class may include, but are not limited to some of the following texts and authors: *The Hebrew Bible*, *The Odyssey*, Shakespeare, Galileo, Jefferson, Darwin, Marx, etc. Prerequisites: 3.25 GPA or higher, or Honor Program students.

**HUM 1300 Introduction to Philosophy, 3 credits, GE 7**
This course provides an introduction to the concepts and views of ancient and modern philosophies, and the basic problems of philosophy.

**HUM 1301 Environmental Ethics, 3 credits, GE 7**
Students in this course apply ethical concepts to current environmental problems, especially to question if non-human entities can have rights and how we justify those claims. Issues may include relations between humans and their natural environment including the role of animal rights, technology, science, law, politics, beauty, and religion. When appropriate the course will emphasize issues of local concern. Crosslisted with SUS 1301.

**HUM 1304 Ethics, 3 credits, GE 7**
This course is a study of various historical and contemporary value systems with emphasis on alternative criteria for making decisions in the contemporary conflict of moral values. It is designed to help students develop their own value system and basis for ethical decision.

**HUM 1307 SpTp: Food Ethics, 3 credits, GE 7**
Increasingly, food is becoming the central battlefield in the war between those committed to consumerism and economic growth at any cost and those advocating a more modest, organic, and localized lifestyle. Students
explore the ethical implications of fast food, factory farming, globalization of the food supply, genetically-engineered food, food subsidies, regulation of slaughterhouses, community gardens, among other topics. In light of the impact of current food practices on animals, on people, on soil, and on water, students will consider whether our current system is environmentally sustainable and morally justifiable. Students also consider what actions that knowledge obliges us to take, if any.

Class activities will combine lecture (including guest lecturers), discussion, videos, and a field trip to the Woodstock Farm Animal Sanctuary. In addition, students will participate in the final harvest in SCCC’s community garden.

**HUM 1310 Philosophical Foundations of Social and Behavioral Thinking, 3 credits, GE 7**
This course provides an examination of the philosophical thinking from which various contemporary theories of the "individual" and "society" arise.

**HUM 1320 Introduction to General Semantics, 3 credits, GE 7**
This course introduces the student to the study of words as language and symbol: how words persuade and control, transmit information, foster social cohesion and provide artistic expression.

**HUM 1330 SpTp: Memorial, Tattoos, and US Culture, 3 credits, GE 7**
Students analyze the development, importance, and aesthetics of memorialization in American and other cultures. Topics may include the following: memorial and funerary practice, tattooing, national traumas and catastrophes, Native American practices. Special emphasis is placed on contemporary memorial practice by government and private citizens and visual culture in a post-9/11 era. Students visit formal and spontaneous memorials.

**HUM 1400 Nature, Culture, and Sustainability, 3 credits**
In this course, students learn how environmental thought has affected the way different societies have viewed nature, their place with respect to the natural world, and in turn, their interactions with it. By exploring that theme, students learn to see connections between ideas, writers, and thinkers of the past and the current global environmental crisis. Students are encouraged to explore their own connections with the past, develop principles and values that have personal meaning, and contemplate their place in nature and society. Crosslisted with SUS 1400.

**HUM 1500 Introduction to Broadcasting, 3 credits**
Through lecture, discussion and laboratory experience, students study the problems and practices of radio and television broadcasting, including basic technical aspects, staff organization, equipment and programming. Crosslisted with COM 1500.

**HUM 1502 SpTp: Close Encounters with Film, 3 credits, GE 7**
Students examine the techniques of filmic expression through a focused, detailed analysis of film form and ideology in celebrated cinematic works from around the world. Course content is organized around the establishment or subversion of narrative, generic, and stylistic conventions through the works of one director, a particular genre, or a film movement. Prerequisite: ENG 1001 Composition I. Crosslisted with ENG 1502.

**HUM 1702 Acting I, 3 credits, GE 8**
Students analyze method acting as a movement within the history of the modern theatre. Students demonstrate the techniques of method acting, especially those of Constantin Stanislavski, and apply these theories to the craft of acting. This application uses acting as a vehicle for learning self expression, focus, discipline, and confidence when performing for an audience. Students learn to overcome the fear of being in front of people by focusing on purpose rather than on one’s self. These objectives are demonstrated by the acting student through pantomime, voice, improvisation, monologues and scene study.

**HUM 2060 Cultural Paradigms in Health Care, 3 credits**
Students examine culture through a self-assessment and experiential learning approach. An organizing framework drawn from cultural anthropology is used to understand how different groups respond to universal questions regarding human nature, time, natural environment, valued personality traits, and preferred ways of interacting. Students use this data to examine how ethnic/cultural background influences attitudes towards health and illness, the health care provider, and the health care system. Crosslisted with ANT 2060 and NUR 2060.

**HUM 2125 Mass Media Criticism, 3 credits**
Students in this course develop a critical basis for judging the quality of mediated information. Emphasis is placed on judging both production values and content. The relationship between society and technology forms the background for understanding how media affects values, life choices, and perceptions of both individuals and
HUM 2128 SpTp: Film Directors, 3 credits, GE 7
In this course, students analyze the multiple aspects of feature filmmaking, as well as film’s social and ideological impacts, through the study and discussion of a single director’s film oeuvre. The choice of directors may vary. Prerequisite: ENG 1001 Composition I. Crosslisted with ENG 2128.

HUM 2285 Introduction to Film, 3 credits, GE 7
This course introduces students to aesthetic, formal, rhetorical, and social conventions of film. Students examine the multiple ways that cinema produces meaning and consider what distinguishes film from the other arts. Crosslisted with ENG 2285. Prerequisite: ENG 1001 Composition I

HUM 2286 Literature to Film Adaptation, 3 credits, GE 7 pending System Administration Approval
This course offers a comparative look at the aesthetic, formal, rhetorical, and social conventions of literature and film. Students examine the complex relationship that has evolved between word and image through the multiple ways literature and film have modified one another since film’s invention. Prerequisite: ENG 1001 Composition I

HUM 2288 SpTp: American Popular Culture, 3 credits, GE 7
In this course students study the wide variety of literary manifestations of American popular culture as reflections and symptoms of the concerns of modern American society. Prerequisite: ENG 1001 Composition I. Crosslisted with ENG 2288.

HUM 2702 Acting II, 3 credits
Acting II builds on the theories introduced in Acting I by enhancing knowledge of character development through techniques by one or more of the following acting influences: Constantin Stanislavski, Michael Chekhov, Uta Hagen and/or The Actor’s Studio. Students analyze the use of acting techniques and theories developed by the aforementioned acting teachers and the development of modern acting in America. Students demonstrate an understanding of these techniques and theories through script analysis, audition practice, and performance production. Prerequisite: HUM 1702 Acting I

IAS 1001 Freshman Seminar, 1 credit
This course is designed for first time, full time students. It is designed to assist the student in making a successful transition to college life by focusing on the behaviors and study skills that lead to taking responsibility for one’s own academic success. A computer component provides an introduction to word processing and e-mail. Orientation to services and activities on campus enhance the students’ ability to access support services and participate in the social and cultural events that are part of the college experience.

IAS 1004 Freshman Enhancement Seminar, 3 credits
Freshman Enhancement Seminar is designed to assist students whose placement testing indicates a need for enhanced support and attention to achieve success in college. The course provides expanded workshops and coaching in study skills, test taking strategies, time management, interpersonal skills, information management, and wellness. Students in this course focus on developing and exhibiting the positive behaviors that contribute to personal and career success in college and in life. The course is required of all first semester students who test into two developmental courses. It satisfies the college requirement for Freshman Seminar. Corequisites: DEN 1000 or DEN 1003 AND DMA 0902 or DMA 0904

IAS 1005 Metamorphosis, 2 credits
In this course, students actively create the conditions and environment to be successful in college and more specifically at SUNY Sullivan. Students utilize a range of resources on campus to improve both academic and personal success. They co-create a culture of excellence through their individual performance and by completing a sustainability-oriented class service project. Students work closely with instructors, who act as mentors to guide them successfully through their first semester of college.

IAS 2001 SpTp: Educational Leadership Seminar, 1 credit
This is an elective leadership course in which students gain critical knowledge pertaining to effective leadership actions, analyze processes, and learn about student development theory and practice. To enroll in this course, students must receive a recommendation from their Freshman Seminar instructor and apply to the Coordinator for First Year Experience. Prerequisite: IAS 1001 Freshman Seminar

MAT 1004 Elementary Statistics, 3 credits, GE 1
Students learn about probability, frequency distributions, mean and standard deviation, the binomial distribution, the
normal distribution, hypothesis testing, samples from a finite population, regression and correlation, confidence intervals, and chi-square tests. Prerequisite: DMA 0995 Basic Algebra or one year of NYS high school Regents level mathematics.

**MAT 1005 Intermediate Algebra, 3 credits, GE 1**
Students review basic algebra and learn about polynomials, radicals, and linear inequalities. They learn to graph and work with linear, quadratic, polynomial, rational, radical, and exponential functions. Prerequisite: DMA 0995 Basic Algebra, or 1 year of high school Regents level mathematics.

**MAT 1105 Elementary Math Logic & Set Theory, 3 credits, GE 1**
This is a course in discrete mathematics intended to teach the student basic skills in logic, set theory and proofs. These skills are necessary for students advancing in mathematics, GIS and science. Prerequisite: MAT 1005 Intermediate Algebra or MAT 1205 College Algebra and Trigonometry.

**MAT 1205 College Algebra and Trigonometry, 4 credits, GE 1**
Students learn about polynomials, radicals, trigonometry of right triangles, Laws of Sine and Cosine, and the following types of functions: linear, quadratic, polynomial, rational, radical, exponential and logarithmic. Prerequisite: MAT 1005 Intermediate Algebra, or two years of NYS high school Regents level mathematics.

**MAT 1206 Precalculus, 4 credits, GE 1**
This course is intended to form a bridge between the static concepts of algebra and geometry and the dynamic concepts of the calculus. Students study basic algebraic, trigonometric, exponential, and logarithmic functions; functional inverses; graphs; complex numbers; systems of equations; introductory matrix algebra; the binomial theorem; and proof by mathematical induction. Prerequisite: MAT 1205 College Algebra and Trigonometry, or three years of NYS Regents level mathematics.

**MAT 1210 Math for Elementary School Teachers, 3 credits, GE 1**
This course is designed for students intending to be elementary school teachers. Students gain theoretical understanding of the kinds of mathematics taught in the elementary grades. Students learn basic operations with rational and real numbers, problem-solving, measuring, set theory, numeration systems, statistics, probability, and use of calculators and computers. Prerequisite: MAT 1005 Intermediate Algebra or higher with a grade of C or higher, or two years of NYS Regents level mathematics with an average of C or higher.

**MAT 1301 Analytical Geometry & Calculus I, 4 credits, GE 1**
Students learn about geometry of the line, limits, differentiation of algebraic and trigonometric functions, differentials, and indefinite and definite integrals. Prerequisite: MAT 1206 Precalculus or a high school precalculus class.

**MAT 2203 Linear Algebra, 3 credits**
Linear algebra includes the study of geometrical vectors, matrices and simultaneous linear equations, vector spaces, linear transformations, determinants, and inner product spaces with particular emphasis on applications to the social, management and physical sciences. Prerequisite: MAT 1301 Analytical Geometry & Calculus I.

**MAT 2301 Analytical Geometry & Calculus II, 4 credits, GE 1**
Students learn about differentiation and integration of logarithmic, exponential, inverse trigonometric, and hyperbolic functions, polar coordinates, infinite series, Taylor and Maclaurin polynomials, techniques of integration, and conic sections and their equations. Prerequisite: MAT 1301 Analytical Geometry & Calculus I.

**MAT 2302 Analytical Geometry & Calculus III, 4 credits, GE 1**
Topics include vectors, solid analytical geometry, partial derivatives, and multiple integrals. Prerequisite: MAT 2301 Analytical Geometry & Calculus II.

**MAT 2401 Differential Equations, 4 credits, GE 1**
Students learn about equations of the first order and higher order, and systems of linear first order equations, with applications. Students also study initial value and boundary value problems and Laplace Transforms. Prerequisite: MAT 2302 Analytical Geometry & Calculus III.

**MED 1110 Medical Terminology I, 3 credits**
In this course students learn the medical vocabulary used in the health care professions. This course focuses on the root words, prefixes, and suffixes commonly used in medical terminology. Other topics include the vocabulary associated with health and disease and the following anatomical systems: skeletal, muscular, cardiovascular,
lymphatic, respiratory and digestive systems.

**MED 1501 Health Care Law and Ethics, 3 credits**
This is an introductory course in the legal and ethical aspects of healthcare, standard ethical and legal principles, and their application to various issues that arise in the healthcare context, such as duty to treat, confidentiality and privacy, withholding and withdrawing treatment, euthanasia, and informed and uninformed consent.

**MED 1620 Medical Administrative Procedures I, 3 credits**
In this course students learn medical administrative front office skills. This course focuses on communicating, using and maintaining office equipment, using computers in the office, managing correspondence, managing office supplies, and managing office medical records.

**MED 1824 Medical Insurance and Billing, 3 credits**
This course is an introduction to medical insurance, billing, and the coding process. Students will learn how to bill patients and companies using the universal medical coding system which includes CPT and ICD codes. This course will also cover manual and electronic billing systems, claims submission, reimbursement protocols, and working with different payers. Prerequisites: MED 2120 Medical Terminology I, and BUS 2620 Medical Administrative Procedures II

**MED 2104 Basic Pharmacology, 3 credits**
In this course students learn about drugs and their origin, nature, properties, and effects on living organisms used in health care and their classifications, characteristics, purposes, side effects, cautions, and interactions. Students also learn administrative procedures related to the dissemination of drugs. Prerequisite: SCI 2124 Human Anatomy & Physiology I

**MED 2105 Basic Phlebotomy and EKG for Medical Assistants, 3 credits**
This course provides an introduction to the basic concepts of phlebotomy and electrocardiography by outlining the role of the Medical Assistant in the physician’s office. Students will acquire a comprehensive knowledge of the theory, principles and practice of phlebotomy, including selection and use of instrumentation, asepsis and safety issues, laboratory information and systems, legal issues, diagnostic tests and proper labeling, documentation and transport of specimens. Students will also be introduced to the concepts of electrocardiography, including an understanding of cardiac electrophysiology and electrode placement and lead systems; both rhythm strip and 12-lead EKG interpretation will be emphasized. Students will work with phlebotomy practice arms and traditional, as well as PC-based interpretative EKG equipment in a classroom setting only. Prerequisite: SCI 2128 Human Biology.

**MED 2120 Medical Terminology II, 3 credits**
This course is a continuation of the study of the medical vocabulary used in the health care professions. This course focuses on the vocabulary associated with the following anatomical systems: urinary, nervous, integumentary, endocrine, respiratory, and reproductive systems; the eyes and ears; diagnostic procedures; and pharmacology. Prerequisite: MED 1110 Medical Terminology I

**MED 2210 Medical Assisting I, 4 credits**
Students learn the basic administrative procedures of medical assisting in the physician’s office. Topics include the use and management of medical office procedures, records, and equipment; related patient care; and professional ethics. Prerequisite: MED 2120 Medical Terminology II or consent of instructor.

**MED 2211 Medical Assisting I Lab, 2 lab hours**
Students practice the application of basic administrative procedures for assisting in the physician’s office. Skills include the use and management of medical office procedures, records, and equipment. Corequisite: MED 2210 Medical Assisting I

**MED 2220 Medical Assisting II, 4 credits**
This course introduces the clinical skills required for assisting in a medical office. Students will learn to identify and assist in use of surgical instruments and procedures including lab tests, asepsis, specimen collection, physical exams, and emergency procedures. Prerequisite: MED 2120 Medical Terminology II

**MED 2221 Medical Assisting II Lab, 2 lab hours**
Lab activities will include application of clinical skills required for assisting in a medical office. These skills include identification and use of surgical instruments and procedures such as lab tests, asepsis, specimen collection, physical exams, and emergency procedures. Corequisite: MED 2220 Medical Assisting II
MED 2250 Medical Assistant Externship, 3 credits
This course provides the student with first-hand experience in the medical setting, and requires application of the skills learned in the Medical Assistant program. Students will complete 135 hours of unpaid time performing administrative and clinical duties in a physician's office, clinic, or hospital. Supervision and evaluation will be conducted by the office staff, and monitored by the instructor. Prerequisites: MED 2210 Medical Assisting I, MED 1501 Health Care Law and Ethics, and SCI 2128 Human Biology.

MHA 1502 Introduction to Creative Arts Therapy, 3 credits
This course is an overview of how to use the creative arts as therapeutic tools to supplement verbal counseling with persons with developmental and other disabilities. This course explores the use of music, art, movement, and drama as therapeutic vehicles through a lecture and experiential format.

MHA 1510 Introduction to Human Services, 3 credits
The student is exposed to the parameters and historical framework of human services, discussion of the roles of client and worker, social problems of concern within the field, and problem-solving methods, including the professionalization of the human service worker with special emphasis on exploration and values. Students must earn a grade of "C" or better to progress to MHA 1930, Human Skills Exploration.

MHA 1512 Psychodrama and Drama Therapy, 3 credits
Students learn how therapists use drama and theater to achieve therapeutic goals. Students explore how clients tell their stories, discover inner conflicts and issues, set goals, and learn how to solve problems, express feelings, and role play. Students use such methods as puppet play, masks, sand play and storytelling.

MHA 1513 Introduction to Expressive Arts Therapy, 3 credits
Students are exposed to the therapeutic uses and techniques of expressive arts such as dance, drama, psychodrama, music and visual arts. Students learn about the history and theory of expressive arts with an eye to their uses in therapy, along with the scientific basis for the use of expressive arts as therapy.

MHA 1514 Basic Report Writing, 1 credit
This course is designed to increase the professional report-writing skills of students in Human Services and Direct Support. Students will develop familiarity with and skill in completing forms, records, and documents typically employed in these professions.

MHA 1515 Report Writing in Direct Support, 3 credits
This course is designed to increase the writing ability of human service and direct support professionals, and focuses on various forms, reports and documents typically faced by direct support professionals. Students learn techniques for transferring observed behavior and other information into written communication to be shared with other professionals.

MHA 1930 Human Services Skills Exploration, 3 credits
Students explore human experiences through values theory and communications theory in order to learn initial social-work skills required to provide direct services. The specific content of the course includes evaluations from an experiential stance applied to social, developmental, perceptual and clinical phenomena. Prerequisite: MHA 1510 with a grade of “C” or better.

MHA 2110 Professional Ethics in Human Services, 3 credits
Students focus on ethics in the field of human services. Students explore the historical evolution of ethics as ethics relate to current values, ideas and standards of the profession. Issues addressed include legal issues, confidentiality, assessment of personal values and their potential impact, professional responsibilities, and competencies. Codes of ethics for various human service professionals are examined and discussed, with an emphasis on codes relative to the MR/DD population.

MHA 2502 Introduction to Counseling, 3 credits
This course provides an introduction to clinical interviewing and counseling. Students practice the essential dimensions of interviewing and are exposed to theoretical, practical and ethical issues of counseling. This course includes the development of observational skills and the exploration of determinants that influence the interview and increase the characteristics of empathy, genuineness, and non-possessive warmth. The twelve core functions of a counselor are addressed. The course also focuses on substance abuse. Prerequisite/Corequisite: PSY 1500 General Psychology.
MHA 2511 Introduction to Developmental Disabilities, 3 credits
This course examines the etiology, prevention, intervention, and treatment for the major disabilities of learning and development. Disabilities are examined within the framework of current educational, psychological, and social service practices. Research related effectiveness of service practices and specific rehabilitation practices will be discussed. Prerequisite: PSY 1500 General Psychology

MHA 2512 Human Behavior in Social Environments, 3 credits
Students examine human development as a basis for social work practice. Human problems are viewed within their environmental context: individuals, families, organizations, and communities, as well as larger social and historical forces which are interactively transformative. Assessments of human problems and intervention strategies are examined in view of this reciprocal impact across environmental systems. Theories related to biological, psychological, spiritual, and cultural processes across the lifespan are studied as expressed through ethnicity, class, cohort, gender, race, sexual orientation, religion, and other differences. Particular attention is given to factors that contribute to persons being at risk. Prerequisite: PSY 1500 General Psychology

MUS 1101 Guitar Class I, 2 credits
This course is designed for students with little or no previous background and permits students to gain the skills necessary for future study of the guitar. The course emphasizes reading music, chords, technique, and performance skills. Students explore a variety of musical styles and cover various aspects of performing on their instrument. To register for this course, a student must have access to a guitar.

MUS 1102 Guitar Class II, 2 credits
This course is designed for students to augment their technical and artistic skills so they can become more proficient musicians. The course emphasizes more advanced reading music, chord technique, and performance skills. We also consider arpeggios, improvisation, modes, ensemble skills, and guitar solos. Students explore a variety of musical styles and cover aspects of performing. To register for this course, a student must have access to a guitar. Prerequisite: MUS 1101 Guitar Class I or permission of instructor.

MUS 1103 SpTp: Jazz Ensemble, 2 credits
This course teaches students to develop ensemble skills. This ensemble emphasizes improvisation, the role of each instrument, and the development of musical interaction. Prerequisite: NYSSMA Level 4 (New York State Music Association) Recommendation from high school band director. Must have one of the following instruments: saxophone, trumpet, trombone, keyboard, electric or acoustic bass, drums or guitar.

MUS 1201 SpTp: Vocal Music, 2 credits
This course is an introductory, non auditioned class covering basic singing technique, music reading, and part independence in a variety of musical styles. The course stresses rehearsal and performance skills and techniques of singing to help students develop musical and vocal skills.

NUR 1001 Fundamentals of Nursing, 8 credits
This course provides the student with content basic to nursing practice. The nursing process is presented as the foundation for nursing practice. The first part of the course emphasizes the assessment phase of the nursing process using the functional health pattern format. The later part of the course focuses on the remaining steps of the nursing process and established protocols directed primarily toward the aged in the chronic care setting. Concepts of growth and development as it relates to the nursing process are presented with emphasis on the older adult. The role of the associate degree nurse, as a provider of care and as a member within the discipline of nursing, is also introduced. Basic nursing skills are taught in the campus laboratory. Clinical laboratory experience is provided in long-term health care agencies. Corequisites: PSY 1500 General Psychology and SCI 2124 Human Anatomy & Physiology I

NUR 1010 Commonalities in Nursing Care, 8 credits
This provides the student with content needed to assess the individual's and family's ability to adapt to the stressors of surgery, childbearing and parenting. The nursing process provides the framework for nursing care of the client and family. The concepts of the teaching/learning process are presented to provide the student with a more comprehensive view of the nursing process and the ability to better promote adaptation by the individual and family. The role of the associate degree nurse as a provider of care is discussed as client-centered and is reflected through a collaborative approach involving the client, the family, significant others, and members of the health care team. Teaching needs of these groups are addressed. Students must have earned a grade of "C" or better in NUR 1001. Prerequisites: NUR 1001 Fundamentals of Nursing, PSY 1500 General Psychology, and SCI 2124 Human Anatomy & Physiology I. Corequisites: PSY 2510 Developmental Psychology, and SCI 2126 Human Anatomy & Physiology II
NUR 1015 Clinical Calculations, 1 credit
This course prepares students to safely perform the preparation and administration of medications in complex and diverse clinical situations using dimensional analysis. Students learn abbreviations and terms used for drug preparation and administration of oral, parenteral and intravenous medications including those that are titrated to maintain blood pressure, heart rate and other specific parameters.

NUR 2020 Health Problems Throughout the Life Cycle I, 8 credits
This course provides the student with content needed to assess the individual for health illness alterations throughout the life cycle. The concept of nurse as teacher is further developed. The nursing process provides the framework for practice and the ability to promote client's adaptation within a therapeutic environment. The role of the associate degree nurse, as a provider of care and member within the discipline of nursing, is further developed. Students must have earned a grade of "C" or better in NUR 1010. Prerequisites: NUR 1010 Commonalities in Nursing Care, PSY 2510 Developmental Psychology, and SCI 2126 Human Anatomy & Physiology II; Corequisites: SOC 1600 Introduction to Sociology, and SCI 2113 Microbiology

NUR 2030 Health Problems Throughout the Life Cycle II, 8 credits
This course provides the student with content needed to assess the individual for health illness alterations throughout the life cycle. The nursing process provides the framework for identifying stressors and promotion of adaptation within the therapeutic environment. The three interrelated roles of the associate degree nurse as provider of care, manager of care and teacher manager within the discipline of nursing are further developed. Emphasis is placed on the role of manager, utilizing the nursing process to establish priorities of care for a group of clients. Students must have earned a grade of "C" or better in NUR 2030. NOTE: A grade of "C" or better in NUR 2030 is required to graduate with an AAS degree in nursing and for certification to take the National Council Licensure Examination (NCLEX) for Registered Professional Nurse (RN). Prerequisites: NUR 2020 Health Problems I Seminar, SOC 1600 Introduction to Sociology, and SCI 2113 Microbiology; Corequisite: NUR 2100 Nursing Issues and Trends

NUR 2050 Pharmacology and the Human Body, 3 credits
Students study medications to maintain health and/or treat disorders in all stages of human development. Origins of medications and commonly used medications are examined as well as how they are changed, produce effects in the body and their compounds excreted. Students also examine toxic side effects and adverse reactions to commonly used medications. Prerequisites: SCI 1204/5 Chemistry for the Health Sciences and Lab, SCI 2126/7 Anatomy and Physiology II and Lab or permission of instructor.

NUR 2060 Cultural Paradigms in Health Care, 3 credits
Students examine culture through a self-assessment and experiential learning approach. An organizing framework drawn from cultural anthropology is used to understand how different groups respond to universal questions regarding human nature, time, natural environment, valued personality traits, and preferred ways of interacting. Students use this data to examine how ethnic/cultural background influences attitudes towards health and illness, the health care provider, and the health care system. Crosslisted with ANT 2060 and HUM 2060.

NUR 2100 Nursing Issues and Trends, 2 credits
The role of the technical nurse in beginning staff positions is discussed along with the historical, cultural and socioeconomic forces which influence nursing practice. Employment opportunities, transition from student to graduate nurse, and legal, ethical and contemporary health care issues are explored. Prerequisite: NUR 2020 Health Problems I Seminar; Corequisite: NUR 2030 Health Problems Throughout the Life Cycle II

PED 1006 SpTp: Pilates, 1 credit
Students learn the basic terms and movements of Pilates through studio and classroom experiences. Pilates strengthens muscles, improves posture and balance, provides flexibility, and focuses on training the mind and body to work together toward the goal of overall health/fitness.

PED 1010 Bowling, 1 credit
This is an introductory course involving basic skills, scoring, bowling etiquette and actual lane experience.

PED 1022 Golf, 1 credit
This is an introductory course. Students are introduced to basic skills, club selection, rules, etiquette, and scoring. Once the student learns these basic skills, the bulk of the material is presented on the golf course under actual playing conditions.
PED 1052 Tai Chi Chuan I, 1 credit
T’ai Chi Ch’uan is an ancient (800 year old) Chinese system of exercise for health, relaxation, and self-defense. Students are introduced to all of the aspects of this Art. This balanced system, with dual aspects of mental and physical components, is based on principles of physics and human physiology. The system is composed of 37 postures which are connected together by smooth transitions. This results in a series of fluid, rounded movements which are then referred to as the Form. T’ai Chi training is also known as an “internal system” because of its beneficial effects upon the Central and Autonomic Nervous Systems and the Skeletal and Muscular Systems.

PED 1103 Fundamentals of the Golf Swing, 2 credits
This course is designed to give students the basic skills needed to improve their own game, the laws, principles and preferences in the golf swing, full swing basics, short game basics, physical conditioning, and the mental side of the game. Crosslisted with GMP 1103.

PED 1105 Aerobic Dance, 1 credit
This is an introductory course combing dance and aerobic fitness. The techniques taught are those necessary to combine dancing and exercise for fun, while garnering increased fitness, flexibility, and coordination.

PED 1115 Fitness I, 1 credit
This is an introductory exercise course involving concepts of physical fitness, principles of muscular and aerobic conditioning, a cursory knowledge of anatomy, and of factors which affect performance, such as stress, tension and relaxation.

PED 1126 Hiking, 1 credit
In this course, students learn basic techniques of hiking, map and compass reading. Further cursory knowledge concerning the geography of the area and indigenous plants and animals is presented. This class will meet each week at a pre-determined hiking location. It is the responsibility of each student to have transportation to and from each location, and to arrive on time. Locations may include Neversink River Gorge, Walnut Mountain, Fire Tower, Tusten trails, Basha Kill trail, among others. Any student entering this course with any sort of medical problem should seek the approval of a medical doctor before undertaking participation in the rigorous exercise program which is required for this course.

PED 1150 Beginning Weight Training, 1 credit
This is an introductory course to physical fitness designed to give students practice in planning and executing a program of exercise to fit their individual capacity and needs. Emphasis is placed on weight lifting, use of weight machines, and cardiovascular activities.

PED 1204 Badminton, 1 credit
This is an introductory course involving skills, skill analysis, strategies, rules, and etiquette involved in the sport of badminton. Singles and doubles games are played with a focus on strategy.

PED 1240 Tennis I, 1 credit
A course designed to introduce to novices the basic skills, rules, playing strategy, and etiquette involved in the sport of tennis. Singles and doubles are played.

PED 1253 Racquetball, 1 credit
This is an introductory course developing basic skills, rules, playing strategy and etiquette involved in the game of racquetball. Emphasis is on doubles.

PED 1306 Basketball, 1 credit
This course concerns the basic concepts and skills of the sport as delineated by the National Junior College Athletic Association: Men's Division.

PED 1334 Softball, 1 credit
This is course concerning the skills necessary to the game of softball and the rules and strategy.

PED 1342 Volleyball, 1 credit
This course is designed to provide the novice player with basic information concerning the skills and game rules and strategies.

PED 1350 Soccer, 1 credit
Soccer is an introductory course involving basic soccer concepts, strategies, and rules. Students practice soccer
skills of dribbling, ball control, heading, shooting, tackling, and passing. Principles of attack and defense are examined and drilled.

**PED 1435 Basic Swimming, 1 credit**
A course designed for non-swimmers, beginners, and intermediates: water safety and swimming skills combine for aquatic ability and enjoyment.

**PED 1500 SpTp: Alternative Sports, 1 credit**
This is a survey course in which students will be introduced to a variety of alternative team sports. Students will develop cursory knowledge in rules of the game, skills of the game, history of the sport and all other pertinent criteria. Sports will be selected by the instructor and may include Frisbee, Frisbee Golf, Floor Hockey or others not currently offered as Phys Ed courses.

**PED 1502 Walking, 1 credit**
This is an introductory exercise course involving the concept of walking and the importance of it in an individual’s daily routine. A typical week consists of a ten minute discussion on a relevant walking topic such as cardiovascular health, frequency, intensity, and type of walking, followed by application of the knowledge. Venues include wooded and open trails around campus and an indoor track.

**PED 1601 Physical Fitness & Wellness, 2 credits**
This is a course based on learning and practicing personal responsibility for one’s own physical fitness and wellness. Students are guided and motivated to make positive behavior decisions related to cardiovascular exercise, weight control, and stress management. Emphasis is on reducing or eliminating high risk lifestyle behaviors such as smoking, stress, obesity, negative nutrition, and alcohol and drug abuse. Crosslisted with REL 1601.

**PED 1610 Selected Lifetime Sports, 2 credits**
This is a survey course in which students are introduced to a variety of individual sports selected based on their applicability within a lifelong fitness regimen. Activities in this course include bowling, tennis, golf, and racquetball.

**PED 1812 Project Adventure, 1 credit**
This is an introductory physical education course which involves innovative warm-up and conditioning exercises, exotic games, group cooperation, personal and group initiative problems and basic skills. Spotting and trusting activities are used throughout “Project Adventure.” Outcomes are: an increase in the participant’s sense of personal confidence, increased joy in one’s physical self in being with others, increased familiarity and identification with the natural world.

**PED 1830 SpTp: Performing Dance, 2 credits, GE 8**
Students in this course are exposed to dance, the most fundamental of the arts, and to its relationship to therapy. Dance involves direct expression through the body and can be used as an intimate and powerful medium for therapy. Based on the assumption that body and mind are interrelated, students explore the psychotherapeutic use of movement as a process that furthers the emotional, cognitive, and physical integration of the individual.

**PED 2042 Hatha Yoga, 1 credit**
This course is the study of the philosophy and practice of yoga with the development of flexibility, strength, and balance through the postures (asanas) and deep breathing. Included are relaxation techniques and the application of yoga to other physical disciplines for managing stress and enhancing overall body/mind health and well-being. This is a physically challenging course and may not be suitable for students with certain limitations, such as heart conditions, shunts, severely impaired knees, hips, or shoulders. There is no requirement for previous yoga experience; however, there will be a physical screening to participate.

**PED 2115, Fitness II, 1 credit**
Students learn to analyze anatomy and the factors that affect performance, i.e. stress, tension and relaxation, to diagnose fitness levels and design personal fitness programs. In addition, students learn to organize dietary programs promoting weight control, disease prevention, and overall wellness.

**PBH 1001, Introduction to Public Health, 3 credits**
A general introduction to what public health is, its importance for everybody’s health, and how it functions as a combination of science and politics. The role of the public health system will be illustrated by describing issues confronting New York State and what is being done about them. (This course may be repeated only once).
PBH 1002, Promoting Healthy People and Communities, 3 credits
This course focuses on how health promotion strategies influence healthy behaviors, healthy people, and healthy communities. Current public health issues will guide us in examining key health promotion concepts, health concerns at different ages, and the causes of different health behaviors. Health inequalities and mass media's role will also be highlighted.

PBH 1003, Concepts of Epidemiology, 3 credits
This course is designed to introduce students to the science of epidemiology. Specific subject will include casual thinking, the epidemiologic framework, and study designs used in epidemiologic studies and the role of epidemiology in public health. Examples of famous studies will be discussed, including outbreak investigations and major studies that have identified risk factors for the more common diseases in the country and world today.

PBH 1004, Global Environmental Issues and Their Effect on Human Health, 3 credits
The environment affects our health, economics, and quality of life. Globalization has made the earth a much smaller place so that we can no longer focus merely on issues in the United States. This course will address global environmental concerns and their impact on human health. Students will discuss various affecting factors (e.g. urbanization, population pressure, climate change, atmospheric pollution, sanitation, etc.) within the context of their impacts on population throughout the world.

PBH 1005, U.S. Health Care: Myths and Realities, 3 credits
This course will introduce the students to important issues underlying the US Health Care System – including issues of contemporary importance such as health care cost, health care quality, access to care, increasing number of uninsured, patient safety, prescription drugs policies, physician-patient interaction, adoption and use of health care technologies, and end-of-life care. The course is intended to provide students with an understanding of the various actors, stakeholder interactions, and functions of the US health care system, through a case-based approach interweaving real world events, practice experience, and research on the above issues.

PHO 1405 Photography I, 3 credits, GE 8
This course provides a "hands-on" approach to the use of light, film, and paper to make photographs. The processes of developing negatives, printing, and enlarging in black and white are explored through the 35mm format.

PHO 1406 Digital Photography I, 3 credits, GE 8
Students practice a "hands-on" approach to the use of light, digital media and equipment to make photographs. The software environment and workflow are explored and utilized to produce end products as prints, web, and print publication. Prerequisite: none.

PHO 2406 Digital Photography II, 3 credits, GE 8
Students study advanced digital photography with an emphasis on craftsmanship, creativity, and visual communication. The use of special effects, controlled lighting, and theory are included for a better understanding of photographic problem-solving. The course also includes advanced shooting and processing techniques. Web assets and resources are explored and utilized. Prerequisite: PHO 1406 Digital Photo I

PHO 2407 SpTp: Digital Photography III, 3 credits
Students produce a cohesive portfolio, with approximately 20-25 images, ready to submit to a graduate/transfer program or employer. In building the portfolio, students show experience with a variety of techniques, concepts, and approaches to display/demonstrate ability as an artist and analyze their own expression and style of photography. Prerequisite: PHO 1406 Digital Photography I and PHO 2406 Digital Photography II.

PLA 1104 Legal Research, 3 credits
Students are introduced to the various sources of law and are guided through legal research using primary and secondary sources of law: statutes, case reports, digests, encyclopedias and citators. Students practice accessing, analyzing and citing legal sources. Students must have earned a grade of “C” or better in POL 1350 American Law. Prerequisite: POL 1350 Introduction to American Law

PLA 2201 Civil Litigation, 3 credits
This course deals with the various stages of civil litigation, from commencement of an action to appeal. Students learn how to prepare documents used in civil litigation, to maintain litigation files, and to otherwise assist lawyers in the trial and appeal of civil cases. Prerequisites: ENG 1001 Composition I and CRJ 1320 Criminal Law & Procedure
PLA 2301 Domestic Relations, 3 credits
This course is designed to acquaint the student with the legal procedures and processes in the sections of the law addressing marriage and divorce, separation and support, children, property and equitable distribution, family court, domestic violence, and other areas of increasing legal concern.

PLA 2310 Legal Writing, 4 credits
Legal writing is a 4-hour, writing-intensive course in which students learn the basic elements of legal prose. They gain further experience in legal research which is then applied to preparing basic legal documents in a variety of substantive areas of the law: letters, pleadings, motions, case briefs, trial and appellate briefs, and internal and external memoranda of law. Students must have earned a grade of “B” or higher in ENG 1001, and a grade of “C” or better in POL 1350. Prerequisites: ENG 1001 Composition I, ENG 2005 Composition II, PLA 1104 Legal Research, and POL 1350 Introduction to American Law

PLA 2901 Paralegal Fieldwork & Seminar, 5 credits
This course is a supervised field experience for the student in a law-related agency. Students spend 120 hours for the semester as a supervised paralegal intern in a legal setting and participate in a two-hour weekly seminar on campus. Seminar session topics are shared by all paralegal interns: legal rules, ethical guidelines, law office skills, professional development, and organizational and communication skills necessary for successful paralegal employment. Students must have earned a grade of “C” or better in PLA 1104 and in PLA 2310. Prerequisites: PLA 1104 Legal Research, and PLA 2310 Legal Writing

POL 1100 Environmental Policy and Politics, 3 credits, GE 3
In this course, students explore the political processes by which environmental problems are recognized and addressed by public institutions domestically. A major objective is to gain an understanding of the factors that shape policies that seek to protect the environment. Students will examine factors that have influenced policy development in the past, as well as factors that should be considered in predicting policy developments in the future. Crosslisted with SUS 1100.

POL 1301 Introduction to Political Science, 3 credits, GE 3
This course is devoted to a study of political ideals, practices and institutions. It includes analysis of major political issues and principles, democratic and totalitarian ideologies and processes, and political behavior. Implications for American government and politics are considered throughout the course.

POL 1322 Constitutional Law, 3 credits, GE 3
This course is an examination of the historical development of the relationship of the states to the Bill of Rights. Also examined are the due process clause of the Fourteenth Amendment and the scope and limits on criminal justice agencies. Crosslisted with CRJ 1322.

POL 1341 American Government, 3 credits, GE 3
Students develop an understanding of how the American political system works. The primary focus is on the structures, functions, and manipulations of the national government.

POL 1350 Introduction to American Law, 3 credits
This course provides a survey of the American legal system. Students examine the structure of the system and the roles of participants, including legislators, judges, attorneys, and paralegals. Students are introduced to the sources of law and such substantive areas of law as contracts, torts, crimes, and property. Crosslisted with CRJ 1350.

POL 1382 SpTp: International Relations, GE 6
Students analyze key theoretical concepts and terms of international politics from both an historical and current affairs perspective; examples may include the following: models and perspectives on international relations, theory and theory building, important actors in the international arena, and the world systems and relations between states.

PSY 1001 Ecopsychology and Sustainability Education, 3 credits
In this course, students study the interconnected principles of ecopsychology and sustainability education. Students trace the history of and connections between these fields, and explore relationships between human and social development and planetary wellbeing. Topics include ecotherapy, deep ecology, outdoor and adventure education, experiential learning, and education as sustainability. Crosslisted with SUS 1001.

PSY 1400 From Radicalization to Terrorism, 3 credits, GE 3
Students examine the process of radicalization and its phases as it pertains to terrorism in the West, especially in
the United States and the United Kingdom. Through studying specific case studies, as well as religious, sociological, and political motivators, students explore how radicalization in the West can produce both global and homegrown terrorism. Crosslisted with EMG 2050 and SOC 1400.

**PSY 1500 General Psychology, 3 credits, GE 3**
This course serves as a general introduction to the scientific study of psychology. General principles of human behavior and mental processes, as revealed through various psychological scientific methods of inquiry, are explored. This basic introduction to psychological research allows students to critically evaluate the topics found within the broad discipline of psychology. Topics in this introductory survey include biological foundations of behavior, sensation and perception, learning, motivation, cognition, human development, abnormal behavior, personality theory, and social and health issues as studied by psychologists.

**PSY 1504 Sport Psychology, 3 credits, GE 3**
This course is an introduction to the field of sport and exercise with an emphasis on basic research methods and theories in the parent discipline of psychology upon which sport specific theories are based. Students learn about implications of theory for recreational athletes, elite athletes, team dynamics, fans, and coaches. Topics of inquiry include the scientific method, motivation, arousal, competition, team dynamics, leadership, communication, imagery, goal setting, self-confidence, concentration, intervention, exercise and well-being, and psychological growth and development.

**PSY 1506 SpTp: The Great Psychologists: Freud, 3 credits**
The Great Psychologists is a history of psychology course that introduces students to the lives, times, and ideas of individuals who have made significant and long-standing contributions to the field of psychology. Using both original writings and evaluative texts, students critically explore the works of a selected individual (e.g., William James, Sigmund Freud, Carl Rogers, among others) who has influenced the field of psychology. This course addresses the psychologist's ideas, and the social, economic, political, and institutional contexts in which this individual lived to examine how and why his or her ideas have had a lasting impact on psychology.

**PSY 1600 Statistics for the Social Sciences, 3 credits, GE 1,**
Students study the processes and applications of statistics in the context of social science research. Topics include the study of fractions, decimals, percentages, proportions, probabilities, and conversions among the preceding functions. Students also study the visual representation of data using various graphing techniques, symbolic variables, working with algebraic equations, solving for unknowns, exponents and square roots, correlations, linear regression, analysis of variance, and chi square analysis. This course is only open to students who have previously demonstrated Math competency.

**PSY 2402 Child Development and Guidance, 3 credits**
This course presents the foundations of guidance, including history of the approach and theoretical considerations that empower the paradigm shift from conventional discipline to guidance. Using a stage approach, students examine the social-emotional and intellectual development of the child from birth through elementary school age. Emphasis is placed on the importance of having a three-way partnership between teachers, children, and family members in the guidance process. Students examine the dynamics of building an encouraging classroom in which all children are accepted as worthwhile, contributing members and learn intervention methods which empower the teacher to respond to conflicts in ways that teach rather than punish. Prerequisite: PSY 1500 General Psychology.

**PSY 2407 Learning, 3 credits**
Students learn principles of operant and classical conditioning and applications of these principles in order to help students change behavior in themselves and others. In addition, cognitive-behavioral approaches to emotional and behavioral change in both normal and abnormal behaviors are addressed. Prerequisite: PSY 1500 General Psychology.

**PSY 2501 Social Psychology, 3 credits**
Social Psychology is the scientific study of how we influence and are influenced by our social environment, which consists of individuals, groups, organizations, and culture. Students acquire an understanding of classic and contemporary work in this field, and explore such topics as aggression, attitude formation and change, social thinking, interpersonal conflict and cooperation, prejudice, friendships and romantic relationships, leadership, social influence, altruism, and conformity. Course topics may also include applications of social psychology to the legal system, health-related behavior, and environmental sustainability. Prerequisite: PSY 1500 General Psychology.

**PSY 2502 Child Psychology, 3 credits GE 3**
This course includes study of the mental, emotional and social development of the child through adolescence. The course stresses new modes of understanding and communication between adult and child, and explores gender
differences in children's social interactions and approach to the world. Prerequisite: PSY 1500 General Psychology

PSY 2503 Adolescent Psychology, 3 credits
Adolescent Psychology focuses on theories concerning the social, cognitive, and biological development of adolescents. This course follows the development of youth from pre-adolescence to late adolescence through young adulthood. The influence of heredity, family, culture, school, and peers will be considered as contexts within which adolescents develop. Prerequisite: PSY 1500 General Psychology

PSY 2504 Personality Psychology, 3 credits
This course provides an examination of major perspectives in personality psychology, including psychodynamic, phenomenological, biological and trait, behavioral, social-cognitive, and interpersonal-sociocultural. Each perspective includes a review of the structure, processes, and development of personality, the methods of inquiry and evidence used in that perspective, and a critical analysis of that perspective. Prerequisite: PSY 1500 General Psychology.

PSY 2506 Abnormal Psychology, 3 credits GE 3
This course emphasizes the scientific inquiry into abnormal psychology while stressing both the depth of human suffering and the social costs associated with this subject. Abnormal psychological conditions are explored through a combination of biological, surface-level and depth-level theoretical perspectives on important facets of the field of abnormal psychology. Issues of assessment, labeling, and how to intervene into the problems associated with abnormal psychological conditions are explored from the same biological, surface and depth perspectives on abnormal functioning and ways of living. Prerequisite: PSY 1500 General Psychology

PSY 2508 SpTp: Animal Intelligence, 3 credits
Do animals think? Do they feel? Do they play? Do they remember? Is your dog smarter than a crow, and do elephants love their calves? When a deer crosses the street does it know to look both ways? Does your cat understand you? And just how smart are dolphins, anyway? These are some of the questions students explore in Animal Intelligence. This course is based upon a clear foundation of what we mean by “Intelligence” for both the human animal and our other breathing counterparts on the planet. Students discover and evaluate research methods in animal cognition as they assess and respond to current, peer-reviewed research in the field. Course topics cover domestic pets, birds, aquatic mammals, primates, and animal intelligence in natural versus man-made habitats. Through these topics students learn how different species perceive the world, learn, communicate, remember, and make decisions.

PSY 2510 Developmental Psychology, 3 credits, GE 3
This course explores the scientific inquiry into normal human development, including mental processes and behaviors from conception through the end of life. A life span developmental psychologist's perspective guides this exploration of issues including the physical, cognitive, emotional, behavioral, and social aspects of human development. Prerequisite: PSY 1500 General Psychology

PSY 2511 Psychology of Adjustment, 3 credits
This course focuses on healthy, desirable and effective human behaviors. Students are introduced to the study of adjustment through discussion of science, a description of the area of adjustment, and introduction to critical evaluation and a summary of major psychobiological theories. This course further covers individual behaviors, including topics on self-control, stress and emotional reactions; self-image, self-deception, and life-span development. Lastly, the class explores adjustment in areas of marriage, sex, interpersonal relationships, and society as a whole. Prerequisite: PSY 1500 General Psychology

PSY 2512 Forensic Psychology, 3 credits
This course considers the application of psychology to law and the legal system. It focuses on uses of psychology in civil commitment proceedings and various aspects of the criminal justice system. Applications of psychology to law enforcement, to the courts and to corrections are discussed. Subjects covered include topics such as determining criminal responsibility, employment testing, jury selection and decision making, witness credibility and competency, crime-related issues, family law issues, explaining criminal behavior, and correctional psychology. Prerequisite: PSY 1500 General Psychology

PSY 2513 SpTp: Gender Psychology, 3 credits
This course explores current issues and research findings concerning the psychology of gender. Students will learn about competing theoretical models of gender differences and review empirical findings that support or fail to support common beliefs about gender. Special issues pertinent to gender, such as parenting, work, sexual orientation, violence, and culture are also explored. Prerequisite: PSY 1500 General Psychology.
PSY 2514 SpTp: Physiological Psychology, 3 credits
Studied in physiological psychology explore the intersection of mind and matter in human experience, leading alternatively to reductionist interpretations of mind as matter and suggestions of mind as quantum consciousness. This course is grounded in a study of the biological (especially neurological) concomitants of behavior but also pursues philosophical questions related to transduction, the transformation of physical energy into self-awareness, thoughts, feelings, and behaviors. Prerequisite: PSY 1500 General Psychology

PSY 2516 SpTp: Cane & Able: Culture and Disability, 3 credits, GE 7
Historically, people with disabilities have been killed, isolated, and exempted from citizenship by the allegedly able-bodied. To better understand disability's pervasive role in our knowledge, values, and perceptions of others, students take a multi-media and interdisciplinary approach to examining disability in its multiple forms—the visible and invisible, physical and cognitive, psychological and social. Prerequisites: PSY 1500 General Psychology; ENG 1001 Composition I. Crosslisted with ENG 2516.

PSY 2521 SpTp: Death & Dying: Psych Perspective, 3 credits
This course represents an interdisciplinary approach to the study of death and dying encompassing perspectives from anthropology, mythology, religion, medicine, law, sociology, ethics, philosophy, and psychology. Topics include definitions of death, cross-cultural and anthropological beliefs about death, euthanasia, suicide, reincarnation, medical and moral obligations surrounding death, and the impact of media on the American culture of death-denial and death-avoidance. Prerequisite: PSY 1500 General Psychology

PSY 2522 SpTp: Ecopsychology, 3 credits
Ecopsychology integrates principles from psychology and ecology to study relationships between mental health and the environment. This course explores the study of ecopsychology from multiple perspectives of psychological and environmental theory. Prerequisite: PSY 1500 General Psychology

PSY 2707 Introduction to Research Methods, 3 credits
Students learn the basic concepts and procedures used to conduct and evaluate research in the social sciences. Emphasis is placed on traditional research methods, use of quantitative data analysis, applying sound experimental design in order to produce interpretable results, and evaluating scientific claims. Prerequisites: PSY 1500 General Psychology and MAT 1004 Elementary Statistics.

REL 1003 PE, Sport, Recreation & Leisure, 3 credits
This course is designed to introduce the field of physical education, sport, recreation, and leisure studies. Lectures, seminars, and observations focus on philosophical, historical, and current issues and practices. This course also provides laboratory experiences during which students explore career options in the field.

REL 1014 Summer Camp Leadership, 2 credits
This course prepares students in the field of summer camp counseling by presenting the philosophy, objectives, and problems in the field. Students have opportunities to acquire skills and leadership essential in camp life.

REL 1016 Motor Learning, 3 credits
Students learn terminology, concepts, and basic principles common to motor development, sensory and motor systems, motor control, and other conditions influencing motor skill acquisition in physical education and athletics.

REL 1505 Philosophy of Sport, 3 credits
This course covers the basic philosophy, principles, and organization of athletics as integral parts of physical education and general education; state, local and national regulations and policies related to athletics; legal considerations; function and organization of leagues and athletic associations in New York State; personal standards for the responsibilities of the coach as an educational leader; public relations; general safety procedures, general principles of school budgets, records, purchasing and use of facilities. This course is required of all non-physical education certified teachers who coach athletic teams at any level in New York State schools.

REL 1507 Health Sciences Applied to Coaching, 3 credits
This course covers selected principles of biology, anatomy, physiology, kinesiology, psychology, and sociology related to coaching, human growth and development, training and conditioning of athletes.

REL 1509 Theory and Techniques of Coaching, 3 credits
The introductory classroom phase of this course covers the basic concepts common to all sports. A history of interschool athletics in New York State, objectives, rules, regulations and policies; teaching methods, performance skills; technical information (offense, defense, strategy, etc.); organization and management of practices; special training and conditioning of athletes in the specific sport; care and fitting of equipment; special safety precautions;
and officiating methods are included. This course may include an internship in the specific sport under the supervision of a master coach or director of physical education as a substantial portion of the course hours.

**REL 1510 Essentials of Personal Training I, 3 credits**
Students study functional anatomy, biomechanics, muscle physiology, the endocrine system, bioenergetics, cardiovascular physiology, energy yielding nutrients, non-energy yielding nutrients, nutritional supplementation, body composition and weight management. This course is the first of two courses that, upon successful completion of both courses, will allow a student to sit for the National Council on Strength and Fitness (NCSF) personal training certification exam.

**REL 1511 Essentials of Personal Training II, 3 credits**
Students study pre-exercise screening and test considerations, physical fitness assessment, exercise programming components, flexibility, cardiovascular training, anaerobic training, resistance training programming, and working with special populations. This course is the second of two courses that, upon successful completion of both courses, will allow a student to sit for the National Council on Strength and Fitness (NCSF) personal training certification exam.

**REL 1601 Physical Fitness & Wellness, 2 credits**
This course is based on learning and practicing personal responsibility for one's own physical fitness and wellness. Students are guided and motivated to make positive behavior decisions related to cardiovascular exercise, weight control, and stress management. Emphasis is on reducing or eliminating high risk lifestyle behaviors such as smoking, stress, obesity, negative nutrition, and alcohol and drug abuse. Crosslisted with PED 1601.

**REL 1801 Advanced First Aid and CPR, 3 credits**
Students complete the National Safety Council program in Advanced First Aid and American Heart Association BLS for the Healthcare Provider (Cardiopulmonary Resuscitation). Topics covered include: respiratory emergencies, emergency action principles, diagnostic and vital signs, bleeding control, shock, poisoning, burns, fractures, and the related skills and techniques to administer first aid care in many common accidents and sudden illness situations. This course may lead to certification in National Safety Council Advanced First Aid and American Heart Association BLS Health Care Provider.

**REL 2005 Management of Event Operations, 3 credits**
In this course, the student is introduced to the principles of management with regard to event and tournament operations. Public, private and commercial organizations are studied. Students focus on all aspects of successful event and tournament planning and organization, implementation, and control. Students demonstrate facility planning and management, marketing, personnel management, financial management and legal aspects of a successful event or tournament. Course objectives are met through lecture, demonstration, guest lecturers and experiential learning models. Prerequisite: REL 1003 PE, Sport, Recreation & Leisure

**REL 2104 Therapeutic Recreation, 3 credits**
This is an introductory course in which students study philosophical, theoretical and historical foundations of programs where special problems and needs exist. The role of physical education, sport and recreation as a treatment, rehabilitation, and therapeutic modality is studied in settings such as hospitals, nursing homes, special schools, correctional facilities, and other institutional and community programs. Students who earned SCCC credit for REL 2103 should not take this course. Prerequisite: REL 1003 PE, Sport, Recreation & Leisure

**REL 2202 Sport & Event Practicum, 1 credit**
This course provides an introduction to game and event administration. This course requires a minimum of 50 hours of on-site sport administration assisting in the planning, organizing and implementation of Sullivan County Community College intercollegiate athletics or other pre-approved events.

**RES 2200 Fundamentals of Respiratory Care I, 3 credits**
Students acquire an introductory understanding of respiratory care, including history of the profession, ethical and legal responsibilities of the respiratory therapist, medical terminology, and basic respiratory care procedures. Prerequisites: SCI 2124, A&P I; and SCI 1305, Physics for Health Sciences. Corequisites: RES 2201, Fundamentals of Respiratory Care I Lab.

**RES 2201 Fundamentals of Respiratory Care I Lab, 0 credit**
Laboratory activities include applications of aerosols, medical gases, ultrasonic nebulizers, IPPB devices, chest physiotherapy, resuscitation, and oxygen administration. Prerequisites: SCI 2124, A&P I; and SCI 1305, Physics for Health Sciences. Corequisites: RES 2204, Cardiopulmonary Physiology, and RES 2202, Cardiopulmonary Pharmacology.
RES 2202 Cardiopulmonary Pharmacology, 2 credits
This course is designed to familiarize the student with medications commonly used in Cardiopulmonary Care. It includes patient assessment of need, indications, contraindications, actions, side effects and hazards for each medication discussed. The student will also identify age appropriate dosing and routes of administration for each drug. The course includes an introduction to the pharmacological aspect of Advanced Cardiac Life Support according to the Guidelines of the American Heart Association. Prerequisites: SCI 2124/5, A&P I and Lab. Corequisites: RES 2204, Cardiopulmonary Physiology.

RES 2204 Cardiopulmonary Physiology, 3 credits
This course emphasizes the cardiopulmonary system and acid-base balance applied to and correlated with patient pathology. Prerequisites: SCI 2124/5, A&P I and Lab. Corequisites: RES 2202, Cardiopulmonary Pharmacology.

RES 2400 Fundamentals of Respiratory Care II, 3 credits
The students learn to assess, intervene, and evaluate patients with impaired respiratory function. It is a continuation of RES 2200 and expands on the practical application of respiratory care procedures. Prerequisite: RES 2200, Fundamentals of Respiratory Care I. Corequisite: RES 2401, Fundamentals of Respiratory Care II Lab.

RES 2401 Fundamentals of Respiratory Care II Lab, 0 credit
Laboratory activities include applications of oxygen therapy, humidity and aerosol therapy, IPPB, chest physiotherapy, prophylactic deep breathing maneuvers, and cardiopulmonary resuscitation. Prerequisites: RES 2200/1 Fundamentals of Respiratory Care I and Lab. Corequisite: RES 2400 Fundamentals of Respiratory Care II.

RES 2402 Medical Ethics and Administration, 2 credits
Students learn the principles of ethical theory and administrative standards as they apply to health care and the management of the respiratory care department. Prerequisite: RES 2200, Fundamentals of Respiratory Care I.

RES 2404 Mechanical Ventilation, 4 credits
This course is designed to familiarize the respiratory care student with all forms of advanced life support systems. Main topics include: Classification and operation of a variety of mechanical ventilators, clinical maintenance and troubleshooting of mechanical ventilators, and clinical management of patients receiving advanced life support to include ventilator commitment and weaning procedures. A letter grade of “C” or better is required for graduation. Open only to matriculated Respiratory Care students. Prerequisites: RES 2200, Fundamentals of Respiratory Care I, and RES 2202, Cardiopulmonary Pharmacology. Corequisite RES 2400 Fundamentals of Respiratory Care II.

RES 2600 Clinical Rotation I, 12 credits
Clinical courses are taught on a rotational basis. The first rotation includes the following four modules: Clinical Therapeutics for Respiratory Care, Introduction to Critical Care, Neonatal & Pediatric Respiratory Care, and Clinical Management of Cardiovascular Diseases. The sequence of courses will vary for each student. Prerequisites: RES 2400, Fundamentals of Respiratory Care II, RES 2404, Mechanical Ventilation, and permission of instructor. Corequisite: RES 2602, Diseases of Cardiopulmonary System.

RES 2602 Diseases of Cardiopulmonary System, 3 credits
This course deals with a number of specific pulmonary diseases such as asthma, pulmonary emphysema, adult respiratory distress syndrome, congenital anomalies and others. The short-term and long-term treatment of the condition is covered. Special emphasis is given to the role of the respiratory care practitioner in the management of these conditions. Prerequisite: RES 2204, Cardiopulmonary Physiology. Corequisite: RES 2600, Clinical Rotation I.

RES 2800 Clinical Rotation II, 12 credits
Clinical courses are taught on a rotational basis. The second rotation includes the following four modules: Pulmonary & Diagnostic Medicine, Pulmonary Rehabilitation & Home Care, Advanced Critical Care, and Clinical Independent Study. The sequence of courses will vary for each student. Prerequisites: RES 2600, Clinical Rotation I, and permission of instructor. Corequisite: RES 2802, Current Concepts of Respiratory Care.

RES 2802 Current Concepts of Respiratory Care, 3 credits
This course is designed to keep the potential Respiratory Care practitioner informed of current trends in Respiratory Care. Close attention will be paid to the latest developments in the therapeutic modalities of diseases affecting the respiratory and cardiovascular systems. Open only to matriculated Respiratory Care students. Prerequisites: RES 2400, Fundamentals of Respiratory Care II, and RES 2404, Mechanical Ventilation. Corequisite: RES 2800, Clinical Rotation II.
SCI 1005 Environmental Geology, 4 credits, GE 2
This course provides an introduction to environmental issues from a geological perspective. Water, mineral, soil and energy resources and conservation, waste disposal, land reclamation, land-use planning, and geological hazards are covered. Scientific principles necessary for the understanding of the geological aspects of environmental problems are emphasized. Lab activities include exercises on natural hazards, natural resources and land use planning using topographic and geologic maps and rock and mineral samples.

SCI 1018 Introduction to Physical Geology, 4 credits, GE 2
Students in this introductory course in physical geology investigate earth's materials, changes in the surface and the interior of earth, and the forces and processes that cause these changes. Topics covered include the theory of plate tectonics, volcanoes, earthquakes, weathering and erosion, glaciers, streams, wind and deserts, waves and coastlines, the sea floor, mountain formation, rock formation, and earth history. Laboratory activities include the identification of rocks, minerals, and fossils, use of topographic and geologic maps, use of computers to obtain data on global geologic activity, work with models to investigate earth's processes, and field trips to local areas of geologic interest.

SCI 1020 Introduction to Meteorology, 4 credits, GE 2
Students acquire a basic understanding of weather and climate and the forces that create them. Topics include the dynamics of the atmosphere, macro and micro causes of weather, macro and micro causes of climate, and climatic classification. Lab activities include collecting and interpreting data and working with models to simulate weather phenomena. This course is designed to meet the needs of both majors and non-majors.

SCI 1024 Nutrition, 3 credits, GE 2
This is a comprehensive course covering nutrition, diet and menu planning using sound nutritional guidelines. Food chemistry including protein, carbohydrates, lipids, vitamins, minerals, and water are presented with respect to their function within the body. The connection between food choices, specific nutrients and associated disease states are explored, as well as the changing nutritional needs of children and the elderly. The microbiology of food poisoning and food allergies are also covered. This course meets the Gen Ed 2 outcome when taken with SCI 1025 Nutrition Lab.

SCI 1025 Nutrition Laboratory, 1 credit, GE 2
Laboratory exercises complement the topics studied in class. Students cover the practical applications of menu planning for healthy adults and those with medical conditions that require diet modification. Basic food chemistry is covered, including: storage, food processing, preservatives, chemical components, contaminants, and the physical properties of food. This course meets the GE 2 outcome when taken with SCI 1024 Nutrition.

SCI 1028 Introduction to Astronomy, 4 credits, GE 2
This course introduces the student to the tools, history, methods and objects of astronomy. Topics covered include the study of the origin of modern astronomy; telescopes, spectroscopes, space probes, and other astronomical tools; structures, characteristics and cycles of the sun, moon, and other solar system members; properties, structure, formation, and death of stars; galaxies, constellations; and an introduction to cosmology. Laboratory activities include work with astronomical models, telescopes and spectroscopes; use of computers for simulations and to obtain current astronomical data; use of photographs, maps, models and first-hand observations to study the moon, the sun and sunspots, seasons, planets, constellations, and galaxies; and several outdoor observing sessions.

SCI 1040 SpTp: Biology and Contemporary Issues, 4 credits, GE 2
Modern developments in the field of life science have initiated controversy regarding topics in biology. Students in this course examine a number of issues of interest to the general public, the medical field, and the political arena. Topics are studied from an historical perspective, a biological perspective, and a modern societal perspective. Topics include genetic engineering, genetically modified foods, cloning, in vitro fertilization, stem cell use, and diseases such as Lyme, SARS, and Avian Flu. Laboratories include the examination of the scientific method, laboratory procedures, and experimental design.

SCI 1042 SpTp: Chemistry of Everyday Life, 4 credits, GE 2
In this course students learn the principles of chemistry as they apply to everyday life. It is intended for students who have never taken a chemistry course and who do not intend to major in any scientific field, but who would like to learn what chemistry is and how it affects the world we live in. Focus will be upon finding answers to common chemical phenomena such as what causes an egg to crack if boiled too rapidly; why does iodine and barium enhance CAT scans; why does carbonated drinks go flat as they warm; what puts the blue in blue-jeans; why is vinegar recommended for cleaning coffee makers and steam irons; what does pH stand for; why are general
anesthetics administered as gases; what causes the fizz when an antacid is dissolved in water; what causes an instant ice-pack to cool; why do light sticks glow; and many others. The lab experiments use a variety of everyday substances (as well as a few non-common substances) and introduce some of the methods chemists might use to test the properties of these substances. Each lab experiment will provide students with direct hands-on experience in the application of the scientific and chemical principles learned in lecture, observation, hypothesis, measurement and evaluation of physical and chemical properties and changes, chemical bonding, chemical reactions, etc.

SCI 1050 Introduction to Biology I, 4 credits, GE 2
This course provides an understanding of basic biological processes and principles for non-science majors. Topics covered include: the scientific method, the chemical and cellular basis of life, mitosis and meiosis, Mendelian genetics, DNA structure and function, and evolution. Corequisite: SCI 1051 Introduction to Biology I Lab

SCI 1051 Introduction to Biology I Lab, 2 lab hours, GE 2
Students in this course engage in basic laboratory work in which lecture topics are illustrated. Corequisite: SCI 1050 Introduction to Biology I

SCI 1111 General Botany, 4 credits, GE 2
This course provides an introduction to the study of the anatomy, physiology, ecology and evolution of plants with emphasis on comparative morphological relationships of major plant groups. This course is designed for science-oriented students. Laboratory work includes the study of plant structure and function, experimental and herbarium techniques.

SCI 1113 General Zoology, 4 credits, GE 2
The course serves as an introduction to the study of the comparative anatomy and physiology, evolution, ecological relationship, and behavioral patterns of representative invertebrates and vertebrates. Laboratory work includes comparative studies on representative major groups and makes extensive use of living material. This course is designed for science-oriented students.

SCI 1117 Introduction to Marine Biology, 4 credits, GE 2
This course provides an introduction to the study of marine organisms and their adaptations to various habitats including intertidal, pelagic, deep sea, and coral reefs. The history of human exploitation of marine organisms and habitats is reviewed. Laboratory work includes selected exercises and experiments that illustrate the principles of marine biology and the anatomy of representative marine organisms. A field trip to study coastal environments is scheduled.

SCI 1124 Principles of Biology I, 4 credits, GE 2
This course provides an intensive study of the fundamental principles of biology, emphasizing structure, function, processes and interaction. Topics include: chemical relationships, cell biology, reproduction, respiration, molecular and classical genetics, and evolution. Laboratory exercises are designed to exemplify aspects of lecture topics. These include examination of cells, tissue types, mitotic and meiotic stages, measurement of photosynthesis and respiration, and other topics. This course is designed both for students who intend to specialize in science and for those who want to obtain a thorough knowledge of biology as part of their general education. It is intended for students who successfully completed high school Regents Biology. This course is not open to students taking Developmental English, DMA 0902, or DMA 0904. With SCI 2152 Principles of Biology II, this course provides a solid foundation for upper division courses in biology. Prerequisites: Students must have demonstrated proficiency in Basic Arithmetic (DMA 0902) or higher; and completed High School Biology/Living Environment with a grade of 70% or higher, or SCI 1050/1051 Introduction to Biology with a C or better; or permission of instructor.

SCI 1141 Genetics, 4 credits
Topics covered in this course include the structure, replication and function of the genetic material, regulation of gene expression, genetic control of cellular function and differentiation, genetic re-combination, human, and population genetics. This course requires mathematics competency. Laboratory experience involves the analysis of genetic systems using a variety of organisms such as Drosophila melanogaster, Neurospora and Escherichia coli. This course requires mathematics competency.

SCI 1145 Biology of Birds and Lab, 4 credits, GE 2
This course covers the biology of birds with emphasis on identification, morphology, the annual cycle, classification, populations, and migration. Making extensive use of videos, students experience the visual, auditory, and environmental aspects of birds found around the world. The laboratory focuses on bird identification using song, visual clues, behavioral, and habitat differences.

SCI 1180 Natural History of the Catskills, 4 credits
In this place-based course, students examine the patterns and processes on local landscapes from an interdisciplinary perspective, with an emphasis on ecology, geology, soil science, plant ecology, and ecosystem geography. The identification, life history, distribution, abundance, behavior, and inter-relationships of various species are included in course. Historical and current human-landscape interactions are also explored. Lab activities include collecting and interpreting data related to the ecology, geology, soil science, plant ecology, and ecosystem geography of the Catskills. Students also participate in exercises related to cultivating a sense of place. Lab activities include collecting and interpreting data related to the ecology, geology, soil science, plant ecology, and ecosystem geography of the Catskills. Students also participate in exercises related to cultivating a sense of place. Crosslisted with SUS 1180.

**SCI 1202 General Chemistry I, 4 credits, GE 2**
Topics covered include elements, compounds, molecules, chemical reactions and stoichiometry, redox reactions, thermochemistry, quantum theory, atomic electron configurations and periodicity, chemical bonding and molecular structure including orbital hybridization and molecular orbitals. Laboratory experiments emphasize topics covered in the lecture and include basic laboratory techniques, identification of substances by physical properties, separation of components of a mixture, chemical reactions, chemical formulas, percent yield, chemicals in everyday life, gravimetric analysis, paper chromatography, molecular geometrics, and activity series. Students should have successfully completed high school Regents Chemistry. Prerequisite: High school Regents Chemistry. Corequisite: MAT 1205 College Algebra and Trigonometry or equivalent.

**SCI 1204 Chemistry for Health Sciences, 4 credits GE 2**
In this course students utilize an inquiry approach to the learning of chemical principles with examples and case studies taken from the health sciences. Material covered is divided into three parts: general chemistry, organic chemistry and biochemistry with emphasis on the relevance of each to the health professions. Topics covered include bonding, reactions, gas laws, solutions and pH. Naming of organic compounds, functional groups and reactions provide a foundation for the study of biochemistry. Laboratory experiments illustrate basic concepts relevant to the allied health science fields including nursing, respiratory therapy, radiological technology, etc. Hands-on activities are assigned and lab reports are required to complete the assignments. Prerequisite: DMA 0995 Basic Algebra, or 1 year of NYS Regents level high school mathematics.

**SCI 1300 Noncalculus Physics I, 4 credits, GE 2**
This course is a study of the fundamental principles and analytical methods of physics. Topics include vector algebra, mechanics, Newton's laws of motion, kinematics, energy and momentum. The laboratory work parallels topics covered in the lecture. Students should have successfully completed three years of high school Regents math, MAT 1205 or permission of the instructor. Prerequisite: MAT 1205 College Algebra and Trigonometry.

**SCI 1302 Calculus Physics I, 4 credits, GE 2**
Topics include vector algebra, one and two dimensional kinematics, Newton's Laws, work, kinetic and potential energy, conservation of energy, momentum and impulse, and gravitation. Laboratory work parallels topics covered in the lecture. Corequisites: MAT 1301 Analytical Geometry & Calculus.

**SCI 1305 Physics for Health Sciences, 4 credits, GE 2**
In this course, health technology students become familiar with physical concepts in static and dynamic fluids, ideal gases, energy, and thermodynamics through a problem-solving approach. The student’s understanding is reinforced by weekly experiments in which he or she gains laboratory skills and experience in the analysis of data. Laboratory work parallels topics covered in the lecture. Prerequisite: DMA 0995 Basic Algebra, or 1 year of NYS Regents level high school mathematics.

**SCI 1515 Environmental Science, 4 credits, GE 2**
This course provides an examination of the interactions of organisms with each other and the environment and the role they play in regulating and maintaining environmental conditions. The central focus is on the role played by humans as a force in causing, correcting, and preventing environmental damage. Laboratory exercises include observation and collection trips to polluted and nonpolluted ecosystems, examination of field collections, field trips to landfills, water and wastewater treatment facilities.

**SCI 1640 Introduction to Forensic Science, 4 credits, GE 2**
Students are introduced to the scientific fields, principles, instrumentation, and methods found in a modern full-service forensic laboratory. Both the lecture and laboratory emphasize various applications of scientific methods and expertise to the examination and analysis of physical evidence used to assist the courts in making legal decisions. The contributions of forensic pathology, toxicology, biology, chemistry and engineering are covered and relevant laboratory tests are demonstrated or conducted. Legal and ethical issues in forensic science are included. Laboratory sessions in forensic science include observation, hypothesis development and testing, measurement
and data collection, experimentation, and evaluation and analysis of evidence collected from crime scenes, from suspects, and from victims. Labs include examination, qualitative and quantitative analysis of physical evidence such as documents, inks, and papers; illicit drugs and poisons; blood and other bodily fluids; hair and fibers; tire and toolmarks; evidence collected in postmortem examinations; and microanalysis of trace evidence. Students learn accident reconstruction techniques, handwriting analysis and procedures for pre-sentence investigations. Prerequisites: Any college chemistry course or SCI 1050 Introduction to Biology I, and SCI 1051 Introduction to Biology I Lab, or SCI 1124, Principles of Biology.

SCI 1701 Science and Civilization: Present and Future, 3 credits, GE 3
Students study the state of the world and its future direction as determined by the driving forces of science, technology and overall human activity and their relationships to world ecology. Students discuss the interactions among science policy, technology, politics and economics. They also study the potential for sustainable human civilization. Crosslisted with SCI 1701.

SCI 1703 Contemporary Health, 3 credits
This course covers issues which affect health. Topics include wellness, substance use and abuse, environmental pollution, cardiovascular and reproductive diseases, genetic defects, stress management, planning diet and fitness programs, and adapting to death and dying. Students will receive information to enable them to make informed decisions concerning their personal, physical and emotional states of health.

SCI 1814 Technical Physics I, 4 credits
This course is designed for technology students at an introductory level covering measurements, equilibrium of a rigid body, kinematics, work and energy and other selected topics. Laboratory work to exemplify topics in the lecture. Prerequisite: a working knowledge of algebra and trigonometry, MAT 1205 College Algebra and Trigonometry, or permission of instructor.

SCI 1824 Fundamentals of Chemistry I, 4 credits, GE 2
Fundamentals of general and inorganic chemistry are covered to provide students with the knowledge necessary to understand the chemical basis of environmental problems. Subjects include matter and energy, atomic structure, nuclear chemistry, chemical formulas, equations and stoichiometry, acids and bases, oxidation and reduction, earth chemistry. The laboratory experiments provide students with hands-on experience in the application of the chemical principles learned in lecture: measurements; physical and chemical properties and changes; chemical bonding; chemical reactions, etc.

SCI 1922 Introduction to Ecology, 4 credits, GE 2
This course is an introduction to the fundamentals of ecology. Students acquire a working knowledge of the systems that govern interactions within and among living organisms and the environment. They explore how the biotic and abiotic environments can affect an organism's life cycle, and study how ecological processes affect individuals, populations, communities, ecosystems and the planet. Emphasis is placed on how environmental interactions have contributed to the complexity of living systems and how anthropogenic disturbance threatens the environment and the existence of life. Topics include the ecology of individuals, populations, communities, and ecosystems. In addition, there is a focus on terrestrial and aquatic biomes and an introduction to aspects of applied ecology. Laboratory and fieldwork emphasize methods of acquiring, analyzing, and interpreting ecological data.

SCI 2030 Introduction to Oceanography, 3 credits
This course provides an introduction to the physical, chemical, and biological aspects of the marine environment. Topics include early explorations, geological and astronomical background, water dynamics, heat budget and thermal processes, mineral and biological resources, pollution, habitat destruction and the importance to sustainable development. This course does not include a laboratory component. Prerequisite: SCI 1202 General Chemistry I or SCI 1824 Fundamentals of Chemistry I.

SCI 2050 Introduction to Biology II, 4 credits, GE 2
This course is a continuation of SCI 1050. Topics include human anatomy and physiology with units on the cardiovascular system, the respiratory system, the digestive system, the immune system, the nervous system, the excretory system, and the reproductive system. Topics also include ecology with units on communities and ecosystems, and population ecology. The lab builds up skills acquired in Introduction to Biology I Lab. The lab consists of more advanced laboratory work. Experimental technique is stressed. This course is intended for non-science majors. Prerequisites: SCI 1050 Introduction to Biology I and SCI 1051 Introduction to Biology Lab.

SCI 2110 Field Biology, 3 credits, GE 2
This field-oriented course covers the study of the flora and fauna of local aquatic and terrestrial habitats. Classroom topics include introductory ecological principles, taxonomy and conservation. Laboratory work includes techniques
of observation, collection, preservation, field identification, and environmental analysis. Laboratory work includes techniques of observation, collection, preservation, field identification, and environmental analysis. Prerequisites: SCI 1111 General Botany or SCI 1113 General Zoology or SCI 1124 Principles of Biology I or SCI 1515 Environmental Science or permission of instructor.

SCI 2112 Evolutionary Biology, 4 credits
This course is a study of the fundamental principles of evolution. Students learn about the history of evolutionary thought, evidence for evolution, natural selection, variation, population genetics, genetic drift, sexual selection, speciation, phylogeny, co-evolution, extinction, and the history of life on earth. The course includes one discussion hour. Prerequisites: SCI 1124/SCI 1125 Principles of Biology I and Lab with “C” or better or permission of instructor & MAT 1001 College Mathematics or MAT 1205 College Algebra and Trigonometry or permission of instructor.

SCI 2113 Microbiology, 4 credits, GE 2
Students study the biology of the many groups of microorganisms with an emphasis on bacteria. Topics include the development of the field of microbiology, microbial structure, metabolism, and ecology. There is a strong emphasis placed on human-microbial interactions including important human pathogens, disease transmission and control, immunity, and biotechnology. In the laboratory, students learn to use proper aseptic techniques and microscopy so that they are able to safely handle and culture microorganisms for identification and experimentation. Lab exercises demonstrate biochemical testing, growth requirements, and methods of control. Prerequisite: SCI 1050 Introduction to Biology I and SCI 1051 Introduction to Biology Lab, OR SCI 1124 Principles of Biology I, OR Permission of Instructor.

SCI 2120 Human Performance – A & P I, 4 credits
Primarily for Physical Education majors. This course does not satisfy requirements for Nursing AAS or Liberal Arts and Sciences AS degree programs. This is the first course of a one-year, lecture-laboratory sequence. Lecture topics include homeostasis, chemistry, cells, tissues, the integumentary system, the skeletal system, the muscular system, the nervous system, and the special senses. Particular emphasis is placed on the role these systems play in human athletic performance. Laboratory work includes body organization, structure and function of the human skeletal, muscular, and nervous systems, general sensation and the special senses. A dissection of a representative mammal will augment the study of these systems. Prerequisites: SCI 1050 Introduction to Biology I and SCI 1051 Introduction to Biology Lab, OR SCI 1124 Principles of Biology I.

SCI 2122 Human Performance – A & P II, 4 credits
Primarily for Physical Education majors. This course does not satisfy requirements for Nursing AAS or Liberal Arts and Sciences AS programs. This is the second course of a one-year, lecture-laboratory sequence. Lecture topics include the endocrine system, the respiratory system, the digestive system, the cardiovascular system, the urinary system, fluid and electrolyte balance, and metabolism. Particular emphasis is placed on the role these systems play in human athletic performance. Laboratory work includes the study of the structure and function of the human endocrine, cardiovascular, digestive, and respiratory systems. Experiments include cardiovascular physiology, and respiratory physiology. A dissection of a representative mammal will augment the study of these systems. Prerequisite: SCI 2120 Human Performance – A & P I.

SCI 2124 Human Anatomy & Physiology I, 4 credits
This course is the first part of a two-semester course in the study of the structures of the human body and their functions. In this course students investigate the major systems, organs, cavities, regions, and surface landmarks of the human body. Students examine the anatomy and physiology of the cells, tissues, and membranes of the human body as well as the following body systems in detail: integumentary, skeletal, muscular, nervous, and endocrine. The laboratory portion of this course introduces all of the body systems, their component organs, and their major functions. Students examine chemical principles, cells and their component parts, and the tissues of the body and investigate the anatomy and physiology of the following systems in detail: the integumentary, skeletal, muscular, nervous, and endocrine systems. Lab activities include dissection of animal specimens, preparation and observation of microscope slides, and the study of diagrams, models, and specimens of the human body and its parts. Prerequisites: SCI 1124 with a C or better, OR Advanced Placement Biology with an exam score of 4 or 5, OR permission of the instructor.

SCI 2126 Human Anatomy & Physiology II, 4 credits
This course is the second part of a two-semester course in the study of the structures of the human body and their functions. Students examine specific and non-specific defense mechanisms; fluid, electrolyte, and acid-base balance; and human development and inheritance as well as the anatomy and physiology of the following body systems in detail: cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. In the laboratory portion of this course students examine the anatomy and physiology of the following systems: cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Lab activities include dissection.
of animal specimens, preparation and observation of microscope slides, and the study of diagrams, models, and specimens of the human body and its parts. Prerequisites: SCI 2124 Human Anatomy & Physiology I or permission of the instructor.

**SCI 2128 Human Biology, 4 credits**
This course provides a one-semester introduction to human anatomy and physiology geared to meet the needs of Medical Assistant students. This course does not satisfy requirements for Nursing AAS or Liberal Arts and Sciences AS degree programs. It is also appropriate as a science elective for non-science majors who meet the prerequisites. Students study the organization of the human body, homeostasis, cells and tissues, and anatomical terminology. They also examine the basic structure and functions of all eleven organ systems. In the laboratory portion of this course students examine and identify representative models and specimens of cells, tissues, organs, and organ systems. Select laboratory exercises demonstrate important aspects of organ system functioning. Prerequisites: SCI 1050 Introduction to Biology I and SCI 1051 Introduction to Biology I Lab, or SCI 1124 Principles of Biology I.

**SCI 2152 Principles of Biology II, 4 credits, GE 2**
This course provides a continuation of Principles of Biology I. Topics include evolution, the nature of plant and animal systems, ecological principles, and behavioral ecology. The laboratory portion of this course provides a continuation of Principles of Biology I Laboratory. Students apply the scientific method to understand, perform, and design experiments. Laboratory exercises exemplify aspects of lecture topics. Laboratory topics include evolution, an examination of plant and animal structures and processes, population ecology, and animal behavior. Prerequisites: SCI 1124 Principles of Biology I.

**SCI 2202 General Chemistry II, 4 credits, GE 2**
Covered topics include gases, intermolecular forces in liquids and solids, solutions, chemical kinetics and mechanisms, chemical equilibria, acids and bases, precipitation reactions (solubility product), chemical thermodynamics, and electrochemistry. Laboratory experiments include both hands-on exercises: molecular bonding and structure, gas laws-molar mass, chemical kinetics, chemical equilibrium, acid-base titration, electrochemistry, qualitative analysis: anions and cations; and video/computer experiments: thermometric titrations, magnetochemistry, kinetics using spectrophotometry, chemical equilibrium-esterification, electrochemical cells. Prerequisite: SCI 1202 General Chemistry I.

**SCI 2208 Organic Chemistry I, 4 credits, GE 2**
Students study carbon compounds and chemical bonds, hybridization, molecular structure, saturated and unsaturated hydrocarbons, functional groups, acids and bases, conformations of cyclohexane, stereochemistry and chirality, nucleophilic substitution and elimination reactions of alky halides, and radical reactions. Laboratory experiments are designed to develop skills and teach the techniques and equipment used by the organic chemist: crystallization, extraction, distillation; the basic instrumental methods of chromatography, infrared, nuclear magnetic resonance and mass spectroscopies are taught with computer simulations. Additionally, students are introduced to qualitative organic analysis. Prerequisites: SCI 1202 General Chemistry I, and SCI 2202 General Chemistry II.

**SCI 2210 Organic Chemistry II, 4 credits, GE 2**
This course entails the study of the properties, syntheses and addition reactions of alkenes and alkynes, addition polymers from alkenes, alcohols and ethers, carbonyl compounds - oxidation/reduction and organometallic compounds, conjugated unsaturated systems, concept of aromaticity and electrophilic aromatic substitution. IN the laboratory portion of this course, students concentrate on isolation of natural products (eugenol from cloves) and chemical synthesis: cis-1, 2-cyclohexanediol, a multistep synthesis of sulfanilamide, sodium borohydride reduction of acetophenone to 1-phenylethanol, preparation of a Grignard reagent (phenylmagnesium bromide), Grignard synthesis of iodobenzene, Diels-Alder synthesis of 4-cyclohexene-1, 2-dicarboxylic acid anhydride. Prerequisite: SCI 2208 Organic Chemistry I.

**SCI 2300 Noncalculus Physics II, 4 credits**
This course provides a continuation of SCI 1300. Topics covered include heat, temperature, thermodynamics, wave motion, static and current electricity, Gauss’s Law, and magnetism. Laboratory work parallels topics covered in the lecture portion of this course. Prerequisite: SCI 1300 Noncalculus Physics I.

**SCI 2302 Calculus Physics II, 4 credits, GE 2**
Topics include temperature and heat, thermodynamics, wave motion, static and current electricity and magnetism. Laboratory work parallels topics covered in the lecture portion of this course. Prerequisite: SCI 1302 Calculus Physics I.

**SCI 2826 Fundamentals of Chemistry II, 4 credits, GE 2**
This course assumes the fundamentals covered in SCI 1824 and adds the fundamentals of organic chemistry. Subjects include organic chemistry, polymers/plastics, energy, air and water pollution, biochemistry, recombinant DNA technology, food chemistry, fitness and health, drugs/chemotherapy, poisons/chemical toxicology. The laboratory portion of this course is a hands-on experience with experiments in general, organic, and biochemistry. General: kinetics, equilibrium; organic: alcohols and phenols, carboxylic acids, amines, aldehydes and ketones, synthesis of nylon; biochemistry: biochemical catalysts, enzymes, biochemical analysis of foods: milk, peanuts, etc. Prerequisite: SCI 1824 Fundamentals of Chemistry I.

**SOC 1200 Social Justice and Biocultural Diversity, 3 credits, GE 6**
Students examine the key issues related to social justice and biocultural diversity across cultures and regions, as well as the relationship between these issues and broader sustainability. Through various case examples, students examine the historical, sociocultural, political, and economic processes by which environmental and social inequities have arisen and continue to persist. Various factors that impact justice are considered, including food, water, climate, natural resource access, and sustainable growth in both developed and developing nations. Crosslisted with SUS 1200.

**SOC 1361 Alternative Dispute Resolution, 4 credits**
This course examines alternatives to traditional civil and/or criminal litigation of legal issues in America. Topics such as administrative law, arbitration, mediation, and restorative justice are included. Justice models from other societies as well as those of indigenous peoples are discussed and compared. A 30-hour laboratory provides training in mediation skills. This training may lead to credentialing and further opportunities to provide mediation services locally in schools, courts, businesses and community. Prerequisite: POL 1350 Introduction to American Law or CRJ 1115 Introduction to Criminal Justice.

**SOC 1400 From Radicalization to Terrorism, 3 credits, GE 3**
Students examine the process of radicalization and its phases as it pertains to terrorism in the West, especially in the United States and the United Kingdom. Through studying specific case studies, as well as religious, sociological, and political motivators, students explore how radicalization in the West can produce both global and homegrown terrorism. Crosslisted with EMG 2050 and PSY 1400.

**SOC 1600 Introduction to Sociology, 3 credits, GE 3**
Students learn how the human individual is shaped by his group affiliations. This course introduces the methods and concepts used in investigating these group influences. An important part of the course is to show how these sociological concepts and methods can throw light on the students' social experience and on the rapidly changing world around them.

**SOC 1602 Sociology of the Family, 3 credits, GE 3**
The family is considered as one of the areas of the social life which plays an important role in individual development. Topics include the various forms of the family in other cultures, the functions of the family in our society, and the role of the family in the inculcation of values.

**SOC 1701 Science and Civilization, 3 credits, GE 3**
Students study the state of the world and its future direction as determined by the driving forces of science, technology and overall human activity and their relationships to world ecology. Students discuss the interactions among science policy, technology, politics and economics. They also study the potential for sustainable human civilization. Crosslisted with SCI 1701

**SOC 1725 Survey of World Cultures, 3 credits, GE 6**
We often ask ourselves: What is Culture? Is it Geography? Politics? Art? The Environment? Or is it the way we interact with our family, our friends, our neighbors within our city, state, and country, and outside our borders in foreign lands? As you have probably guessed, it’s all of the above, and more. During this course we will map cultural identities by looking at different measurements...including population, new and old technologies, economic development, and how people construct living spaces in cities, towns, and countryside. Although we will move quickly, practically flying through our text, I think you will find each module interesting, filled with unique facts that will leave you saying to yourself, "Wow, I didn't know that."

**SOC 2601 Social Problems, 3 credits, GE 3**
This course is designed to provide a systematic analysis of a select number of social problems in the United States. Deviant behavior and social disorganization are objectively investigated in terms of social system structure and dynamics. Topics to be covered include mental disorders, crime, drug addiction, automation, poverty and war. Prerequisite: SOC 1600 Introduction to Sociology
SOC 2602 SpTp: Foundation of Sociological Theory, 3 credits
The course covers the reading, understanding, and application of the principal founders of sociology: Karl Marx, Max Weber, and Emile Durkheim. The course also covers some major theorists of the next two generations including Joseph Schumpter, Daniel Bell, and Herbert Marcuse. The course concentrates on the historical development and application of these different conceptual models, allowing the student to develop sound critical and analytic thinking from these 19th and 20th century sociologists. Prerequisites: SOC 1600 Introduction to Sociology, and SOC 2610 New World Order or Disorder

SOC 2603 SpTp: Reflections of Women in Society, 3 credits
This course examines the unique change in the role of women in North American culture during the last century. A study of history will reveal that since the 1920’s women have never played the role in society that they now hold. Using the media of film and TV the evolution of society’s view of women will be explored. Both from the standpoint of roles reflecting media and media reflecting and foreshadowing role changes. Prerequisite: SOC 1600 Introduction to Sociology

SOC 2609 Race, Class, and Gender, 3 credits
Students address the complex interconnections between race, social class, gender, and sexuality, and the ways in which these identities/locations/markers are constructed and positioned within social structures to create social, political, and economic inequality. The emphasis is on investigating, via critical thinking, how the different systems of inequality interact with each other. An examination of methodologies and theoretical frameworks from several disciplines informs conceptual analyses of the interconnections and intersections of race, social class, gender, and sexuality. Students also explore avenues for social change within social institutions. Prerequisite: SOC 1600 Introduction to Sociology

SOC 2610 The New World: Order or Disorder, 3 credits, GE 3, GE 6
Students discuss the evolution of the idea of internationalism from the dreams of the 19th century English empire builders through the Wilsonian League of Nations, to the ultimate establishment of the United Nations into the post-Cold War era of today. The readings explain the economic, technological, demographic and general ideological forces which created the current international system, as well as the forces which may disrupt this “New World Order.” Students discuss the existing and newly-emerging international, political and economic structures designed to control and administer the increasing international functions required in the post-Cold War era. Prerequisite: SOC 1600 Introduction to Sociology

SUR 1501 AutoCAD, 4 credits
Students are introduced to the care and use of traditional drafting equipment and techniques on sketching, orthographic projections, dimensioning, pictorial views, auxiliary views, sections, and working drawings. Emphasis is placed on computer drafting and its associated concepts. Topics include, but not limited to basic commands for drawing, editing, layers, placing text and dimensioning.

SUR 2301 Elementary Surveying, 4 credits
This course addresses the fundamentals of plane surveying with emphasis on the use and care of theodolites, levels, measuring tapes, leveling, and stadia rods. Field practice in differential leveling, measuring horizontal and vertical angles, measurements of distances with taping techniques and notekeeping are included as are instruction on typical surveying problems, including taping corrections, angular adjustments, traverse balances, and computation of coordinates, and areas. Hand-held, programmable calculators are used, and programming practical solutions are included. Students should have completed high school math course 3 or 2 or technical math 1.

SUR 2305 Land Surveying, 4 credits
This course addresses the history and development of the practice of land surveying. Emphasis is on research and interpretation of legal records with their application to the rules of evidence in determining legal boundaries. Local and state codes of practice and ethics are used. Researching records in the Real Property Tax and the County Clerk's offices are included. A practical field boundary survey on an actual parcel is performed utilizing electronic, total stations and field data collection devices. Microcomputers and related software is used for data reduction. Prerequisites: SUR 1501 AutoCad, and SUR 2301 Elementary Surveying

SUR 2306 Land Planning, 4 credits
Students study and evaluate land parcels for use in subdivisions and site plans. Students review design priorities including soil investigation, topographic surveys, highway geometry, and design and construction layout. Municipal and governmental regulations are explored including zoning, subdivision and site plan regulations, state and federal wetlands, soil maps, etc. Prerequisite: SUR 2305 Land Surveying

SUR 2307 Advanced Surveying, 4 credits
This course covers geodetic surveying, control surveys, base line surveys, ALTA standards and procedures, triangulation, solar observations of both the Sun and Polaris, and state plane coordinate calculation. Off-campus field projects include photogrammetry and GPS. Prerequisite: SUR 2305 Land Surveying

SUR 2309 Legal Aspects of Land Surveying, 4 credits
This course includes interpretation and writing of legal boundary and strip descriptions, sequential and simultaneous conveyances, riparian rights, reversionary rights, liability problems, the Rectangular Survey System of the United States, proportionate measurements, and the surveyor in court. Field trips are scheduled to the county law library in order to research cases related to surveying. Prerequisite: SUR 2305 Land Surveying

SUR 2400 AutoCAD for Surveying, 4 credits
This course covers the use of computer-aided design and drafting as related to the development of survey drawings. Microcomputers utilizing AutoCAD or similar software are utilized to produce maps on a graphics plotting device. Prerequisites: SUR 1501 AutoCad, and SUR 2305 Land Surveying

SUS 1001 Ecopsychology and Sustainability Education, 3 credits
In this course, students study the interconnected principles of ecopsychology and sustainability education. Students trace the history of and connections between these fields, and explore relationships between human and social development and planetary wellbeing. Topics include ecotherapy, deep ecology, outdoor and adventure education, experiential learning, and education as sustainability. Crosslisted with PSY 1001.

SUS 1100 Environmental Policy and Politics, 3 credits, GE 3
In this course, students explore the political processes by which environmental problems are recognized and addressed by public institutions domestically. A major objective is to gain an understanding of the factors that shape policies that seek to protect the environment. Students will examine factors that have influenced policy development in the past, as well as factors that should be considered in predicting policy developments in the future. Crosslisted with POL 1100.

SUS 1180 Natural History of the Catskills, 4 credits
In this place-based course, students examine the patterns and processes on local landscapes from an interdisciplinary perspective, with an emphasis on ecology, geology, soil science, plant ecology, and ecosystem geography. The identification, life history, distribution, abundance, behavior, and inter-relationships of various species are included in course. Historical and current human-landscapes interactions are also explored. Lab activities include collecting and interpreting data related to the ecology, geology, soil science, plant ecology, and ecosystem geography of the Catskills. Students also participate in exercises related to cultivating a sense of place. Crosslisted with SCI 1180.

SUS 1200 Social Justice and Biocultural Diversity, 3 credits, GE 6
Students examine the key issues related to social justice and biocultural diversity across cultures and regions, as well as the relationship between these issues and broader sustainability. Through various case examples, students examine the historical, sociocultural, political, and economic processes by which environmental and social inequities have arisen and continue to persist. Various factors that impact justice are considered, including food, water, climate, natural resource access, and sustainable growth in both developed and developing nations. Crosslisted with SOC 1200.

SUS 1300 History of the US Environmental Movement, 3 credits, GE 4
In this course, students study the history of the U.S. environmental movement. Students examine different approaches to environmental protection and restoration in view of the movement's historical roots, as well as contemporary debates. Crosslisted with HIS 1300.

SUS 1301 Environmental Ethics, 3 credits, GE 7
Students in this course apply ethical concepts to current environmental problems, especially to question if non-human entities can have rights and how we justify those claims. Issues may include relations between humans and their natural environment including the role of animal rights, technology, science, law, politics, beauty, and religion. When appropriate the course will emphasize issues of local concern. Crosslisted with HUM 1301.

SUS 1400 Nature, Culture, and Sustainability, 3 credits
In this course, students learn how environmental thought has affected the way different societies have viewed nature, their place with respect to the natural world, and in turn, their interactions with it. By exploring that theme, students learn to see connections between ideas, writers, and thinkers of the past and the current global environmental crisis. Students are encouraged to explore their own connections with the past, develop principles
and values that have personal meaning, and contemplate their place in nature and society. Crosslisted with HUM 1400.

SUS 1500 Sustainable Food and Farming, 3 credits
In this course, students explore the theories and practices related to sustainable agro-food systems. The emphasis is on the relationship between agriculturally productive environments, natural ecosystems, and sustainable communities. Topics include organic and biodynamic farming, agroecology, permaculture, community-based food systems, and community gardens. This course will include fieldtrips to regional sites that exemplify sustainable food and farming practices. Crosslisted with CUL 1500.

SUS 1600 Sustainable Campus and Business Operations, 3 credits
In this course, students explore the frameworks, technologies, and methods for enhancing campus and business sustainability. Topics include sustainability strategies for water, energy, building design and operation, groundskeeping, purchasing, waste reduction and diversion, and community engagement and education. The college and the broader community are used as a case study and field site for the study of these topics. Crosslisted with BUS 1600.

SUS 1630 Transformational Leadership, 3 credits
In this course, students explore theories and practices related to transformational leadership and social change, specifically in the context of innovation and adaptation for sustainability. Students learn strategies for fostering transformative change in individuals, communities, organizations, and schools. Topics include models of leadership and change management; behavior of individuals and groups in organizations; communicating strategic intent; institutionalizing a capacity for change; creating successful and sustainable organizational cultures; integrating organizational silos; negotiating political landscapes; and managing for contingencies. Crosslisted with BUS 1630.

THE 1500 SpTp: Introduction to Theatre Production/Technology, 3 credits
Students learn about, and perform, work on theatrical production. Shop and studio work is complemented by lectures and demonstrations on the technical components of a theatre production. Topics covered include: designers and their functions; scenic and costume construction techniques; stage rigging, hardware and material; sound; stage procedures and safety. Simple drafting projects and the ability to read floor plans and stage elevations are stressed.

THE 1700 Theatre History I, 3 credits, GE 8
Students examine primary aspects of theatrical performance from the time of the ancient Greeks through the 19th century. Students trace the development of theatre architecture, theatrical design concepts, theatre technology, acting styles and playwriting. Includes discussion of theatre traditions of non-Western cultures when possible and/or appropriate.

THE 1713 P Play Production Practicum I, 3 credits
This is a course designed to allow students the opportunity to participate in the production of a play.

THE 1714 SpTp: Introduction to Producer, 3 credits
Students are introduced to all the major aspects of professional theater production from choosing the show to opening night. Survey topics include play selection, budgeting and box office, promotion, staffing and casting, visual and sound design, stage management, and stage direction. The course is taught through lecture and authentic learning experiences during the summer production cycle at the Forestburgh Playhouse, Forestburgh, NY. The Forestburgh Playhouse is the oldest continuously operating professional summer theater in New York State. Students must have completed the junior year of high school to enroll.

THE 1751 Stagecraft, 3 credits
In this course, students gain experience in basic technical theater production. In practical exercises and projects, students explore aspects of production including scenery construction, lighting, light and sound board operation, scene painting, and costumes and props. Students practice and apply these skills in the College production.

THE 2720 Design Elements for Theatre, 3 credits
This course provides students an introduction to design for the theater. Using design theory, history, and practical application, students gain the knowledge and skills necessary to execute 2-dimensional drawings and 3-dimensional models. Students learn to complete practical projects in set, lighting, costume, and sound design, in support of a College production. Prerequisite: THE 1700 Introduction to Theatre.

THE 2723 Play Production Practicum II, 3 credits
This is a course designed to allow students the opportunity to participate in the production of a play. Prerequisite:
THE 1713 Play Production Practicum I

**WTT 1010 Wind Turbine, 3 credits**
This course covers the history and development of the wind industry, types and applications of various wind turbines, environmental and economic issues of the wind industry, the future of the wind industry, and related terminology.

**WTT 1020 Wind Turbine II, 3 credits**
This course provides an overview of wind turbine technology, wind farm design and development, an in-depth examination of aerodynamics and performance of land-based horizontal axis wind turbines, a survey of alternative machine architectures, and an introduction to the design of key components.

**WTT 1100 DC Electrical, 3 credits**
This course focuses on Direct Current theory, application and circuits, especially as they apply to wind turbines and power distribution.

**WTT 2100 Hydraulics, 3 credits**
This course focuses on the theory, design, application, operation and maintenance of hydraulic systems, especially as applied to wind turbines.

**WTT 2200 Electrical Motors and Generators, 3 credits**
This course focuses on the theory, operation and maintenance of electrical motors and generators especially as applied to wind turbines.

**WTT 2300 AC Electrical, 3 credits**
This course focuses on Alternating Current theory, application and circuits, especially as applied to wind turbines and power distribution.

**WTT 2400 Mechanical Systems, 3 credits**
This course provides an in-depth examination of gearboxes and other mechanical subsystems of modern wind turbines.

**WTT 2500 Wind Turbine Siting & Cost Control, 3 credits**
This course covers techniques, methodology and concepts used to develop wind projects around the world, focusing on site selection and economic analysis.

**WTT 2800 Wind Turbine Field Experience, 5 credits**
Students work in wind turbine environments on and/or off campus. They work with instructors, industry professionals, government agencies, other students and other College approved groups to create a capstone project. Prerequisites: WTT 1010 Wind Turbines I, WTT 1020 Wind Turbines II, WTT 1100 DC Electrical, WTT 2300 AC Electrical, WTT 2100 Hydraulics, WTT 2200 Electrical Motors and Generators, REL 1501 Standard First Aid, or permission of instructor. Corequisites: WTT 2400 Mechanical Systems, WTT 2500 Wind Turbine Siting and Cost Control or permission of instructor.