CHAPTER 9

COURSE DESCRIPTIONS
COURSE NUMBERING INFORMATION

0001–0999  Developmental not-for-credit courses for students who need further preparation before enrolling in college-level courses. These courses award Equivalent Hours (EHs) that contribute to a student’s academic load, but do not count toward degree or certificate requirements.

1000–1999  College-level courses at the 1000 level provide students with foundational concepts or skills required in specific or multiple disciplines. These courses may be stand-alone or part of a sequence.

2000–2999  Courses at the 2000 level build upon the skills and concepts presented in the 1000-level courses. Students are expected to acquire foundational concepts prior to entry into courses at the 2000 level and are expected to be able to move forward to more complex subject mastery.

PREREQUISITES

Many courses require prior satisfactory completion of another course to equip students with the knowledge and skills needed to succeed in the course. For example, English (EGL) 1020 Composition II, cannot be taken unless EGL-1010 (the prerequisite) has been satisfactorily completed. In addition, for a number of introductory-level credit courses, a minimum level of proficiency in reading, writing, and mathematics, as determined by the college's placement tests, is required as a prerequisite. In such cases, satisfactory completion of the appropriate developmental studies course (see ESL, DVE, DVM, and DVR listings) will satisfy the prerequisite as well. Students should be certain to check for prerequisites in the course listings that follow. Except when specifically authorized by the department chairperson or dean, registration will not be permitted if prerequisites have not been fully satisfied.

COURSE CONTACT HOURS

At the end of some course descriptions is a phrase such as “3 studio hours” or “3 class/2 lab hours.” This indicates the actual time a student should expect to spend per week in a course, broken down by the type of contact—classroom/lecture, laboratory, studio, or clinical. If there is no such indicator for a course, students may assume there will be one class hour per week for each credit awarded for completion of the course. (Courses which meet in an accelerated or nontraditional format rather than in the usual full-semester, 15-week format will meet more than the hours indicated per week in order to reach the same number of total contact hours for the semester.)

GENERAL EDUCATION REQUIREMENTS KEY

CL = Computer Literacy Req.
E = English Req.
H = Humanities Req.
M = Math Req.
Sc = Science Req.
SS = Social Science Req.
ACCOUNTING (ACC)
Business Studies Department
Bladen Hall, Room 210 | 301-546-0713

ACC-1000 FUNDAMENTALS OF ACCOUNTING. 3 CREDITS
Preparation for ACC-2001 (formerly ACC-1010) for students lacking background in accounting. Enroll in ACC-1000 directly or transfer from ACC-2001 (formerly ACC-1010) during the first five weeks of a semester. Note: Does not satisfy program concentration requirement in business-related curricula; may not be taken for credit if credit has previously been received for ACC-2001 (formerly ACC-1010) or higher.

ACC-1010 PRINCIPLES OF ACCOUNTING I. 4 CREDITS
Course has been re-numbered. See ACC-2001.

ACC-1020 PRINCIPLES OF ACCOUNTING II. 4 CREDITS
Course has been re-numbered. See ACC-2002.

ACC-1030 ACCOUNTING FOR MANAGERS. 3 CREDITS
Focuses on sources of accounting information and the meaning of financial reports as an aid to decision-making. This course adopts a user’s approach and does not emphasize the technical aspects of record maintenance. Prerequisite: Reading proficiency.

ACC-1040 MICROCOMPUTER APPLICATIONS IN ACCOUNTING. 3 CREDITS
A hands-on course in the use of microcomputers to process accounting data. Knowledge of programming is not necessary. Projects emphasize accounting applications. Prerequisite: ACC-1000 or ACC-2001 (formerly ACC-1010).

ACC-1050 PAYROLL ACCOUNTING. 1 CREDIT
Covers payroll preparation, payroll rules, record keeping and payroll tax reporting. Prerequisite: Reading proficiency.

ACC-1070 QUICKBOOKS I. 1 CREDIT
Students will learn to establish a chart of accounts, vendor, customer and payroll records, entering typical transactions and preparing standard financial reports for service firms using QuickBooks software. Prerequisites: ACC-1000 or ACC-2001 (formerly ACC-1010) or ACC-1030.

ACC-1080 INTRODUCTION TO SPREADSHEET ACCOUNTING. 1 CREDIT
Basic spreadsheet applications in accounting. Use of spreadsheets for record keeping, computation, analysis, and presentation of accounting data is covered. Prerequisites: Reading proficiency, ACC-2001 (formerly ACC-1010) or ACC-1030 and INT-1010.

ACC-1090 QUICKBOOKS II. 1 CREDIT
Students will learn to establish a chart of accounts, vendor, customer and inventory records, entering typical transactions and preparing standard financial reports for merchandising firms using QuickBooks software. Prerequisites: ACC-1000 or ACC-2001 (formerly ACC-1010) or ACC-1030.

ACC-1100 QUICKBOOKS III. 1 CREDIT
Students will learn budgeting, job costing and nonprofit accounting using QuickBooks software. Prerequisites: ACC-1070 or ACC-1090.

ACC-2001 PRINCIPLES OF ACCOUNTING I. 3 CREDITS
University-parallel introductory accounting sequence. Covers major accounting theories, principles and applications. Regular classroom and online formats available. Students should have had previous accounting or have completed ACC-1000 or ACC-1030. (Formerly offered as ACC-1010. Students may not receive credit for both ACC-1010 and ACC-2001.) Prerequisites: Math (DVM-0071 or appropriate test score) and Reading proficiency or ACC-1000 or ACC-1030 with C or higher.

ACC-2002 PRINCIPLES OF ACCOUNTING II. 3 CREDITS
Second semester of sequence. Continues focus on accounting theories, principles and applications. Regular classroom and online formats available. (Formerly offered as ACC-1020. Students may not receive credit for both ACC-1020 and ACC-2002.) Prerequisite: ACC-2001 (formerly ACC-1010). (Honors version available, spring only.)

ACC-2010 INTERMEDIATE ACCOUNTING I. 3 CREDITS
Intermediate-level accounting covering cash, investments, receivables, inventories, plant assets and measurement of financial income in accordance with accounting principles (GAAP). Prerequisite: ACC-2002 (formerly ACC-1020) with grade of C or higher. (Classroom sections offered fall only. Online sections offered spring only.)
ACC-2020  INTERMEDIATE ACCOUNTING II.  3 CREDITS
Accounting principles applied to corporations, including stockholders’ equity and liability sections of the balance sheet. Prerequisite: ACC-2010 with C or higher. Capstone Course: In addition to completing the prerequisite course, students must complete a minimum of 47 credits prior to enrolling in this course. A minimum cumulative GPA of 2.00 or higher is also required. (Classroom sections offered spring only. Online sections offered fall only.)

ACC-2030  COST ACCOUNTING.  3 CREDITS
Basic concepts of cost accounting functions within a manufacturing organization, including measurement of material costs, labor costs, manufacturing overhead and marketing costs. Prerequisite: ACC-2002 (formerly ACC-1020). (Classroom sections offered fall only. Online sections offered all semesters.)

ACC-2040  PRINCIPLES OF AUDITING.  3 CREDITS
Analysis of audit functions and responsibilities. Emphasis on examining accounting records and drawing valid audit conclusions. Prerequisites: ACC-2020; MAT-1140 completed or concurrent.

ACC-2070  GOVERNMENTAL AND NONPROFIT ACCOUNTING.  3 CREDITS
Accounting applied to local, state and federal agencies or schools, hospitals and other nonprofit organizations. Covers general, special revenue, enterprise and fiduciary funds and cash planning and control. Prerequisite: ACC-2002 (formerly ACC-1020). (Offered fall only.)

ACC-2080  SPREADSHEET ACCOUNTING.  3 CREDITS
Applies spreadsheet skills to financial and managerial accounting applications, analysis and problem solving. Prerequisites: ACC-2002 (formerly ACC-1020) and INT-1010. Three class hours with open lab.

ACC-2120  ACCOUNTING INFORMATION SYSTEMS.  3 CREDITS
This course examines accounting information systems, both manual and computerized. The course includes information on current technologies in information systems including hardware, software, networks, databases and data communications. Internal controls and security issues are examined. Prerequisite: ACC-2002 (formerly ACC-1020).

ACC-2200  FEDERAL INCOME TAX.  3 CREDITS
Study of the federal tax system includes survey of tax legislation, court rulings, and their application to individuals. Prerequisite: ACC-2001 (formerly ACC-1010).

ACC-2220  ADVANCED TAX ACCOUNTING.  3 CREDITS
A second course in taxation, which examines the tax consequences of operating a business. The course emphasizes the federal income tax treatment of corporations and partnerships with some coverage of estates and trusts. Prerequisites: ACC-2002 (formerly ACC-1020) and ACC-2210.

ACC-2230  INDIVIDUAL INCOME TAX PREPARATION (VITA).  3 CREDITS
Students will learn to prepare basic and intermediate income tax returns for both Federal and local taxes. Successful students will obtain IRS volunteer tax preparer certification and will participate as tax preparers at the Prince George’s Community College Volunteer Income Tax Assistance (VITA) Site during the spring tax season. This service learning course begins during the January Intersession and continues through the close of tax season. Prerequisite: Reading proficiency.

ACC-2250  BUSINESS FINANCE.  3 CREDITS
Capital markets and the banking system, including financial analysis and planning, working-capital management, capital budgeting and long-term financing. Prerequisite: ACC-2002 (formerly ACC-1020) and MAT-1120.

ACC-2890H  HONORS COLLOQUIUM IN ACCOUNTING.  3 CREDITS
This honors colloquium will examine special topics in the field of accounting and its relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

ACC-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
AFRICAN-AMERICAN STUDIES (AFA)
History, Political Science, Geography, and Anthropology
Department | Marlboro Hall, Room 2018 | 301-546-0527

AFA-1010  INTRODUCTION TO AFRICAN-AMERICAN STUDIES.  
3 CREDITS
An introduction to the interdisciplinary study of the life and 
culture of persons of African heritage in the United States. 
Explores the cultural and historic ties to various African peoples 
and the multicultural context. Prerequisite: Reading proficiency.

AFA-2010  INTRODUCTION TO THE AFRICAN 
AND BLACK DIASPORA.  3 CREDITS
A comparative analysis of African and black communities 
around the globe, with emphasis on the United States South, 
the Caribbean, Central and South America. Attention will be 
given to the awakening sense of political interrelatedness that 
undergirds contemporary Pan-African movements, collabora-
tive struggle against oppression and the renewal of traditional 
African culture and values in Diaspora. Prerequisite: Reading 
proficiency. (Offered fall only)

AFA-2890H  HONORS COLLOQUIUM IN 
AFRICAN-AMERICAN STUDIES.  3 CREDITS
This honors colloquium will examine special topics in the 
field of African-American Studies and their relevance across 
disciplinary perspectives. The issues to be addressed in each 
colloquium will vary from semester to semester. These courses 
are designed for students in the Honors program, but are 
open to others with the approval of the honors coordinator 
or the instructor. Prerequisites: Reading proficiency and permission 
of the instructor or honors coordinator.

ANTHROPOLOGY (ANT)
History, Political Science, Geography and Anthropology 
Department | Marlboro Hall, Room 2018 | 301-546-0527

ANT-1010  INTRODUCTORY PHYSICAL ANTHROPOLOGY.  
3 CREDITS
Humans’ place in nature, including genetics, evolutionary 
theory, primate behavior, human physical variations and 
culture. Prerequisite: Reading proficiency.

ANT-1030  INTRODUCTORY CULTURAL ANTHROPOLOGY.  
3 CREDITS
Anthropological approaches to culture, language and social 
organization, including religious belief, gender role, family 
form and economic life. Prerequisite: Reading proficiency.  
(Honors version available.)

ANT-2010  INTRODUCTION TO ARCHAEOLOGY.  3 CREDITS
Survey of archaeology, including its development in America 
and an overview of archaeological methodologies. Prerequi-
site: Reading proficiency.

ANT-2030  LANGUAGE AND CULTURE.  3 CREDITS
Theories of language dealing with learning, diversity, creativ-
ity and change. Relation of language to perception, ethnic 
identity, occupation and social class. Prerequisite: One of 
the following courses: ANT-1010, ANT-1030, PSY-1010, 
SOC-1010, SPH-1010, or SPH-1090.

ANT-2890H  HONORS COLLOQUIUM IN ANTHROPOLOGY.  
3 CREDITS
This honors colloquium will examine special topics in the 
field of anthropology and its relevance across disciplinary 
perspectives. The issues to be addressed in each Colloquium 
will vary from semester to semester. These courses are 
designed for students in the Honors program, but are open 
to others with the approval of the honors coordinator or the 
instructor. Prerequisites: Reading proficiency and permission 
of the instructor or honors coordinator.

ARABIC (ARB)
Language Studies Department
Bladen Hall, Room 309 | 301-546-0946

ARB-1000  ARABIC FOR BEGINNERS.  3 CREDITS  
H
Designed for students who are true beginners without any 
background knowledge of the Arabic language. The course 
focuses on the four skills of listening, speaking, reading, 
and writing. 3 class/1 lab hour or equivalent.

ARB-1010  ELEMENTARY ARABIC.  3 CREDITS  
H
Continues to focus on the four skills of listening, speaking, 
reading and writing. Students will be studying Modern Stan-
dard Arabic, which is close to classical Arabic. (It is the lan-
guage used for reading and writing Arabic today.) Students 
will advance their knowledge of grammar, pronunciation, 
vocabulary, and reading and writing of Arabic. 3 class/1 lab 
hour or equivalent. Prerequisite: ARB-1000 or permission 
of the instructor.
ART (ART)
Art, Music, and Philosophy Department
Marlboro Hall, Room 1034 | 301-546-0966

ART-1010 INTRODUCTION TO ART. 3 CREDITS
Introduces students to the visual arts. Through lecture, demonstration and hands-on activities, students develop an appreciation for art and an understanding of the elements and principles of design, artistic styles, specific art techniques, and major historical movements in art. Artistic ability or experience is not required. Prerequisite: Reading proficiency. (Honors version available.)

ART-1510 TWO-DIMENSIONAL DESIGN. 3 CREDITS
This course introduces the organization of visual elements on a two-dimensional plane. The elements of art and principles of design are examined through lectures, demonstrations, and related studio problems for students to explore and solve. Students will develop techniques for handling a variety of art materials. 6 studio hours.

ART-1530 DRAWING I. 3 CREDITS
Introduction to basic drawing techniques through the exploration of the human figure and natural and man-made forms. A variety of drawing tools and materials are introduced. 6 studio hours.

ART-1540 PAINTING I. 3 CREDITS
An introduction to basic techniques and theories of painting. Emphasis is on learning the skill of painting and application of materials. Students explore the basic elements of two-dimensional art as a means to create interesting compositions, manipulate space, and develop solid forms. The course is designed for beginners with little or no experience in painting. Proficiency in drawing is beneficial but not critical to successful completion of this course. 6 studio hours.

ART-1550 SCULPTURE I. 3 CREDITS
Introduction to basic sculptural techniques. Elements and principles of 3-D art are emphasized through practice in bronze casting, welding, carving and fabrication. Development of ideas will be encouraged through critique of and historic references to specific sculptures and artists. 6 studio hours.

ART-1560 PHOTOGRAPHY I. 3 CREDITS
Contemporary principles and terminologies are introduced by developing basic skills with camera operation and handling, photographing, black and white film processing, black and white darkroom techniques, and print finishing and presentation. The students are exposed to a brief history, color theory, and the aesthetics of the photographic vision. No prior experience required. Students must have access to a 35mm film camera. 6 studio hours.

ART-1570 INTRODUCTION TO COMPUTER GRAPHICS. 3 CREDITS
Designed to provide a survey of the role of the computer in visual communication design. Students will receive basic training on the primary types of software and peripherals with which designers must be familiar. This includes painting-type (raster) software as well as structured graphics (vector) applications. Students will be encouraged to develop creative approaches to projects coupled with increased technical proficiency. 6 studio hours.

ART-1580 PORTFOLIO DEVELOPMENT FOR VISUAL ART. 1 CREDIT
Course has been re-numbered. See ART-2900.

ART-1590 WATERCOLOR I. 3 CREDITS
An introductory course in basic watercolor painting. Emphasis is on techniques and traditional watercolor materials used by today’s watercolorists. Includes composition, color concepts and history of watercolor painting. Students will attend lecture and demonstration classes and create their own paintings. 6 studio hours.

ART-1600 CERAMICS I. 3 CREDITS
A beginner’s studio course designed to teach ceramics as a creative craft and art form. The student is encouraged to explore ceramics as a form of three-dimensional expression and to be actively engaged in the complex cycle of ceramic production; production of clay, construction of forms, decoration, and firing. Students are expected to acquire knowledge of and to test various glazes. 6 studio hours.

ART-1610 GRAPHIC DESIGN I. 3 CREDITS
Course has been re-numbered. See ART-2410.
ART-1620 DIGITAL PUBLICATION DESIGN. 3 CREDITS
Designed to acquaint the student with the fundamentals of publication and print media design. Hands-on training will be provided using a variety of digital media and hardware current to the graphic design profession. Students will gain experience in taking a print media project from concept to page layout and production. Prerequisite: ART-1570. 6 studio hours.

ART-1630 COMMERCIAL ILLUSTRATION I. 3 CREDITS
Investigates the various media, techniques, and artistic concepts that produce quality commercial illustration. Prerequisite: ART-1530. 6 studio hours.

ART-1640 COLOR THEORY AND APPLICATION. 3 CREDITS
Course has been renumbered. See ART-2520.

ART-1780 DIGITAL PHOTOGRAPHY I. 3 CREDITS
This course is a general introduction to the terms and technologies employed in digital photography. Students will utilize digital cameras, scan film and photographs, manipulate images and produce finished prints with laser and inkjet printers. Students must have access to a digital camera for use in this course. (Formerly ART-2580. Students may not receive credit for both ART-2580 and ART-1780.) 6 studio hours.

ART-2410 GRAPHIC DESIGN I. 3 CREDITS
Provides a survey of the design principles and artistic concepts that produce quality commercial art. Students will acquire hands-on experience in taking a variety of projects from concept development to final output. Training will be provided in the various production skills and techniques used by graphic design professionals. Prerequisite: ART-1510. 6 studio hours.

ART-2510 THREE-DIMENSIONAL DESIGN. 3 CREDITS
A continuation of ART-1510, Basic Design. The visual elements and principles of three-dimensional design will be explored with an emphasis on visual and critical thinking. Students will be introduced to materials and methods for developing a work of art in three-dimensional space and they will learn how to apply the principles of design to work that has multiple points of view. Students also will learn how to consider aesthetic and conceptual issues as well as solve technical problems in the creation of original art work. Through class critiques, students will gain experience in written and verbal analysis of their own work and the work of their peers. Prerequisite: ART-1510. 6 studio hours.

ART-2520 COLOR THEORY AND APPLICATION. 3 CREDITS
Introduces students to the history, psychology, and physics of color by building on concepts introduced in ART-1510, Basic Design. In all disciplines, a working knowledge of color principles is vital in creating effective, successful works of art. Through lectures, studio projects, and museum visits, students will develop a vocabulary of color and a working understanding of various color systems. In the studio, students will create original artworks that explore aesthetic color relationships and the psychological application of color. Through class critiques and written assignments, students will learn how to evaluate and discuss their own work as well as the work of their peers. Prerequisite: ART-1510. (Formerly ART-1640. Students may not receive credit for both ART-1640 and ART-2520.) 6 studio hours.

ART-2530 DRAWING II. 3 CREDITS
An advanced studio course that emphasizes further development of individual drawing skills, a thorough understanding of drawing principles and a greater exploration of the various drawing materials and techniques. The human figure, landscape and man-made objects are the source of investigation. Prerequisite: ART-1530. 6 studio hours.

ART-2540 PAINTING II. 3 CREDITS
An advanced studio course that stresses further development of individual painting skills and techniques and a broader understanding of color theory. Students are encouraged to explore complex issues and to develop greater understanding of the medium. Prerequisite: ART-1540. 6 studio hours.

ART-2550 SCULPTURE II. 3 CREDITS
This course offers the student the opportunity to more thoroughly explore concepts of three-dimensional art. Emphasis is placed on independent selection of materials and their aesthetic implications and how they relate to contemporary sculptural images. Prerequisite: ART-1550. 6 studio hours.

ART-2560 PHOTOGRAPHY II. 3 CREDITS
Continues the exploration of the photographic vision. Under the supervision of the instructor, the student defines and completes a personal project by using advanced camera handling and lighting techniques, darkroom manipulation and altered processes including electronic scanning and printing. Students must have access to a 35mm film camera. Prerequisite: ART-1560. 6 studio hours.
ART-2570 LETTERING, TYPOGRAPHY AND LAYOUT. 3 CREDITS
Designed to deepen the student’s understanding of fundamental publication and presentation design. The overall goal of the course is to expand the student’s ability to explore creative solutions for text based visual information. Prerequisite: ART-1620. 6 studio hours.

ART-2580 DIGITAL PHOTOGRAPHY I. 3 CREDITS
Course has been re-numbered. See ART-1780.

ART-2590 WATERCOLOR II. 3 CREDITS
This advanced course will cover watercolor techniques in depth. Students work with more refined techniques of the medium: large paper format and watercolor monoprints and a more independent approach to their own work. Prerequisite: ART-1590. 6 studio hours.

ART-2600 CERAMICS II. 3 CREDITS
Emphasis on designing forms in clay using hand-building and wheel-throwing techniques. Advanced glaze theory, clay bodies and firing techniques explored in depth. Prerequisite: ART-1600. 6 studio hours.

ART-2610 GRAPHIC DESIGN II. 3 CREDITS
Designed to provide students with advanced concepts utilized in the creation of advertising art, Web-based graphics, broadcast graphics, interactive multimedia, electronic publishing and print media. This course attempts to expand the survey of design principles and artistic concepts to a more global perspective. Prerequisite: ART-1610. 6 studio hours.

ART-2620 DIGITAL ILLUSTRATION. 3 CREDITS
Provides a survey of computer-based methods of producing artwork used commercially. This includes extensive use of object-oriented and image processing software packages. Projects may include package design, editorial support illustration, logo/icon design, creative Web pages, statistical charts and graphs and technical illustration. Prerequisite: ART-1570. 6 studio hours.

ART-2630 COMMERCIAL ILLUSTRATION II. 3 CREDITS
Designed to expand a student’s exploration of illustration techniques. Emphasis is on the creative approach to preparing imaginative, effective illustrations. Prerequisite: ART-1630. 6 studio hours.

ART-2640 COMPUTER PAINTING. 3 CREDITS
In-depth use and investigation of bit-mapped graphics (paint) programs. Prerequisite: ART-1570. 6 studio hours.

ART-2650 ANIMATION AND MULTIMEDIA I. 3 CREDITS
Focuses on two-dimensional animation and multimedia, with an emphasis on creativity, originality and experimentation. Various software packages will be utilized to create animated sequences complete with sound and special effects. Prerequisite: ART-1570. 6 studio hours.

ART-2660 DIGITAL IMAGING. 3 CREDITS
Advanced techniques in computer graphics creation and image manipulation. Includes use of scanners, digital cameras, and CD-ROM sources. Prerequisite: ART-1570. 6 studio hours.

ART-2670 3-D DIGITAL MODELING AND ANIMATION. 3 CREDITS
Focus is on three-dimensional modeling and animation techniques, with an emphasis on creativity, originality and experimentation. Various software packages will be used to create 3-D stills and animated sequences complete with sound and special effects. A survey of modeling techniques and examples from a variety of industries will be provided. Prerequisite: ART-1570. 6 studio hours.

ART-2700 ART SURVEY I. 3 CREDITS
A survey of art and architecture from prehistoric times through Gothic art. Works of painting, sculpture, and architecture are analyzed both in terms of their style, iconography, and technique and in terms of their significance within the historical, social, religious, and economic context in which they were produced. Prerequisite: Reading proficiency.

ART-2710 ART SURVEY II. 3 CREDITS
Survey of art and architecture from the Renaissance to the 20th century. Works of painting, sculpture, and architecture are analyzed both in terms of their style, iconography, and technique and in terms of their significance within the historical, social, religious, and economic context in which they were produced. Prerequisite: Reading proficiency.
ART-2720 AFRICAN-AMERICAN ART. 3 CREDITS
Beginning with the West and Central African cultures, this course traces the artistic exploration and achievements of African-American artists from the seventeenth-century artisans through the prolific period of the Harlem Renaissance to post modern and contemporary fine arts. The course examines the historical, economic, social, and cultural trends that have influenced African-American art. Students investigate the African-American artists' visual voice through the historical Black experience that propels it. The assignments within the course advance the development of college-level reading, writing, and critical thinking skills through the examination and interpretation of the crafts and fine arts presented throughout the course. Prerequisite: Reading proficiency.

ART-2730 INTEGRATED ARTS. 3 CREDITS
Introduces students to the areas of visual arts, dance, music, theater and film through an exploration of representative works in these disciplines. The student will experience a variety of artistic performances and exhibitions that will enhance self-expression and develop a better understanding of the human experience. The assignments within the course advance the development of college-level reading, writing, and critical thinking skills through the integration, analysis, and appreciation of the arts. The course meets part of the Maryland State integrative arts requirement for the Associate of Arts in Teaching degree. Prerequisite: Reading proficiency.

ART-2740 MODERN ART. 3 CREDITS
Art 2740 is an introduction of art and architecture from the late 19th century to Postmodernism. Visual arts from traditional works to conceptual, installation, video, and performance art are analyzed in terms of style, iconography, and technique as well as political, social, and economic significance. The history and philosophy of the various movements and their relationship to contemporary thought and culture are explored. Prerequisite: Reading Proficiency. 3 class hours.

ART-2750 ANIMATION AND MULTIMEDIA II. 3 CREDITS
A continuation of ART-2650. Student will explore advanced vector drawing, computer animation techniques, Web interface design, interactivity and digital and video/audio production. Course exercises will include 2-D animations, screen-based graphics and digital video presentations. Prerequisite: ART-2650. 6 studio hours.

ART-2780 DIGITAL PHOTOGRAPHY II. 3 CREDITS
This course is a continuation of ART-2580, Digital Photography I. Students will explore complex techniques and contemporary concerns associated with advanced electronic imaging. The students will utilize digital cameras; film and flatbed scanners to digitize negatives, slides, and photographs; manipulate images; and produce finished prints with laser and inkjet printers. Students must have access to a digital camera for use in the course. Prerequisite: ART-2580.

ART-2890H HONORS COLLOQUIUM IN ART. 3 CREDITS
This honors colloquium will examine special topics in the field of art and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

ART-2900 PORTFOLIO DEVELOPMENT FOR VISUAL ART. 1 CREDIT
A studio course which provides a structured approach to portfolio development. It will enable students to assemble a coherent body of artwork for academic transfer or employment opportunities. Students will prepare a portfolio in their area of specialization in a variety of formats. Prerequisites: ART-1510 and 1530, completion of a 2000-level studio art course, and a second 2000-level studio course completed or concurrent. Culminating experience course: In addition to completing prerequisite courses, students must also have completed a minimum of 46 credits before enrolling in this course. Certificate students, see advisor. A minimum cumulative GPA of 2.00 or higher is also required. (Formerly ART-1580. Students may not receive credit for both ART-1580 and ART-2900.) 3 studio hours.

ART-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
BIOLOGY (BIO)
Biological Sciences Department
Chesapeake Hall, Room 100 | 301-546-0420

BIO-1010 GENERAL BIOLOGY. 4 CREDITS SC
An introduction to biology for non-science majors with both lecture and laboratory components. Surveys ecology, chemistry of life, cell physiology, human organ systems, genetics, and molecular genetics. The ability to think critically and to draw conclusions based on evidence will be emphasized. Credit may not be earned for both BIO-1010 and BIO-1030 or BIO-1140 toward the same degree. Prerequisite: Reading proficiency. 3 class/3 lab hours. (Honors version available.)

BIO-1020 GENERAL PLANT BIOLOGY. 4 CREDITS SC
University-parallel introductory plant biology course. Topics covered will include but are not limited to plant classification, structure, function, and growth and development. Practical application of plant use in our daily life also will be presented. Prerequisite: Reading proficiency. 3 class/3 lab hours.

BIO-1080 REPRODUCTION BIOLOGY. 4 CREDITS SC
An examination of biological principles and contemporary issues in reproductive biology. Demonstration of critical thinking, reasoning, and writing skills is expected. Prerequisite: Reading proficiency. 3 class/3 lab hours.

BIO-1100 FORENSIC BIOLOGY. 4 CREDITS SC
An introduction to the principles and concepts of the biological aspects of forensic science. An examination of the role of the laboratory in criminal investigation and human identification using forensic pathology, serology, anthropology, molecular biology, and other specializations. Prerequisite: Reading proficiency.

BIO-1110 ENVIRONMENTAL BIOLOGY. 3 CREDITS SC
Survey of basic scientific principles needed to understand current environmental problems and evaluate alternatives for solving those problems. Prerequisite: Reading proficiency. Note: Periodically, linked sections of BIO-1110 and BIO-1120 are offered, featuring local field trips and in the travel study format, featuring a trip to Florida or the Rocky Mountains. Any student who registers for a linked section of BIO-1110 also must register for the corresponding BIO-1120 section.

BIO-1120 ENVIRONMENTAL BIOLOGY LABORATORY. 1 CREDIT SC
Supplements BIO-1110, providing laboratory and field experiences relevant to environmental issues. Prerequisite: BIO-1110 completed or concurrent. 3 lab hours.

BIO-1130 PRINCIPLES OF BIOLOGY: EVOLUTION, ECOLOGY, AND BEHAVIOR. 4 CREDITS SC
Evolution, ecology, and behavior, including Mendelian genetics, population genetics, natural selection, coevolutionary relationships, ethology, and contemporary issues. Students may receive credit for only one of the following: BIO-1130, BIO-1010. Prerequisite: Reading proficiency and completion of DVM-0071 or equivalent score on math placement test. 3 class/3 lab hours.

BIO-1140 PRINCIPLES OF BIOLOGY: CELLULAR AND MOLECULAR BIOLOGY. 4 CREDITS SC
University-parallel biology sequence for science/health majors. Cellular and biochemical emphasis, including cell anatomy and physiology, energy processes, and the molecular biology of gene expression. Students may not receive credit for both BIO-1010 and BIO-1140 toward the same degree.) Prerequisite: CHM-1010. (Honors version available.). 3 class/3 lab hours.

BIO-1210 SUSTAINABILITY IN HEALTH CARE. 4 CREDITS
A survey course in sustainability in the health care environment including communication, leadership, environmental sustainability, systems and processes, and organizational knowledge. Of particular relevance to those interested in Environmental Services, Building Services, Waste Management, Hospital Facilities, or Dietary Services. Prerequisite: Instructor permission.

BIO-1250 BIOLOGY OF AGING. 3 CREDITS
Lecture/seminar course designed for major or non-major students. Examines the aging process on the molecular, cellular, and organismic levels. Emphasizes alterations during the aging process in cells. Examination of various pathological disorders in relationship to aging is also emphasized. Students are required to read original articles and be prepared to discuss current topics in workshop settings. Prerequisites: Reading and English proficiency.

BIO-2010 MICROBIOLOGY. 4 CREDITS
Structure and function of microorganisms and their role in pathology. Laboratory includes culture methods, staining, and identification of bacteria. Prerequisite: BIO-1010 or 1140 or 2050. DVM-0071 completed or appropriate score on math placement test. 2 class/4 lab/1 recitation hours.
BIO-2030 GENETICS. 4 CREDITS
Genetics and heredity. Analysis of classical and molecular genetics, emphasizing contemporary issues. Prerequisite: BIO-1140. 3 class/2 recitation hours. (Offered spring semester only.)

BIO-2050 HUMAN ANATOMY AND PHYSIOLOGY I. 4 CREDITS
University-parallel sequence. Structure and function of human body systems with emphasis on cells, tissues, transport mechanisms, and skeletal, muscular and nervous systems. Prerequisites: BIO-1010 or 1140, or for health science petitioners only a departmental placement test; DVM-0071 completed or appropriate score on math placement test. 3 class/3 lab/1 recitation hours.

BIO-2060 HUMAN ANATOMY AND PHYSIOLOGY II. 4 CREDITS
Continuation of Human Anatomy and Physiology sequence. Structure and function of circulatory, lymphatic/immune, respiratory, digestive, urinary, reproductive, and endocrine systems. Laboratory includes vertebrate dissection. Prerequisite: BIO-2050. 3 class/3 lab/1 recitation hours.

BIO-2090 CELL BIOLOGY. 4 CREDITS
An examination of the structure and function of cells with particular emphasis on metabolism, reproduction and the molecular aspects of cell communication and regulation. Credit may not be received for both FOS-2090 and BIO-2090. Prerequisites: BIO-1140 and CHM-1010. 3 class/3 lab hours.

BIO-2100 MARINE BIOLOGY. 4 CREDITS
An introduction to marine ecosystems. Principles and processes common to all forms of life in the sea. Includes field trips to marine habitats, such as the Chesapeake Bay and Atlantic beaches and to local exhibits at the National Zoo and the National Aquarium in Baltimore. Prerequisite: BIO-1010 or equivalent. Note: This course also may be offered in the travel study format, featuring a trip to a tropical marine location, such as Florida, Mexico, Jamaica, or Belize.

BIO-2250 INTRODUCTION TO BIOTECHNOLOGY. 4 CREDITS
Introduction to the basic principles and techniques of the science of biotechnology and the ways in which these are applied to agriculture, forensic science, medicine and microbiology. Course will examine current knowledge concerning nucleic acids and their role in the functions of living cells and viruses and how the manipulation of genetic material can be utilized in industries ranging from medicine to ecology. Laboratory includes principles of genetic manipulation, bacterial culture techniques, DNA restriction analysis, recombination and transformation of DNA, immunological detection of disease, the polymerase chain reaction (PCR), and randomly amplified polymorphism detection (RAPD). Prerequisite: BIO-1140. 2 class/4 lab/1 recitation hours.

BIO-2300 INTRODUCTION TO ENVIRONMENTAL HEALTH. 3 CREDITS
An introduction to how humans affect and are affected by the quality of water, air, soil, and food resources. Provides an overview of pollution issues that impact human health; emphasizes types and sources of pollutants and their consequences with respect to human health. Also explores the impact of the growing human population on environmental quality and on health issues. Prerequisites: BIO-1130, BIO-1140, and MAT-0104 (formerly MAT-1040) with grades of C or higher.

BIO-2330 FUNDAMENTALS OF SOIL SCIENCE. 4 CREDITS
A lecture/laboratory course introducing the study and management of soils as ecosystem components and media for the growth of plants and other organisms. Includes soil morphology, composition, formation, and conservation; emphasizes the physical, chemical, and biological properties of soils as they relate to plant biology, nutrient cycles, the hydrologic cycle, engineering uses of soils, and environmental quality issues. Prerequisites: BIO-1130, BIO-1140, CHM-1010, and MAT-0104 with grades of C or higher. 3 lecture/3 lab hours per week.

BIO-2500 BIOLOGICAL PRINCIPLES OF FORENSIC SCIENCE. 4 CREDITS
An introduction to the principles governing the application of biology and biological statistics that are used to analyze evidence from crime scenes. Topics will include evidence examination and preservation; presumptive and confirmatory biological testing; blood, urine, semen, hair and fiber comparisons; generation and statistical analysis of mitochondrial and nuclear DNA profiles; understanding the modern forensic crime laboratory; the role of the forensic scientist within the Criminal and Civil United States Court system. Prerequisites: BIO-1140 and CHM-1010. 3 class/3 lab hours.
BIO-2890H HONORS COLLOQUIUM IN BIOLOGY. 3 CREDITS
This honors colloquium will examine special topics in the field of biology and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of the instructor or honors coordinator.

BIO-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

BIO-2990H HONORS SEMINAR IN ENGINEERING AND SCIENCE (SPECIAL TOPICS). 1 CREDIT
Seminar course that introduces and studies emerging issues in science, engineering, technology, and mathematics. Topics vary by semester. Also offered as CHM-2990H and EGR-2990H. Prerequisites: A 3.00 GPA, completion of a minimum of 18 credits in courses offered by the division of Science, Technology, Engineering, and Mathematics, and permission of the instructor or the honors program coordinator.

BUSINESS LAW (BUS)
Public Safety and Law Department
Bladen Hall, Room 208 | 301-546-0553

BUS-1220 BUSINESS LAW I. 3 CREDITS
Course has been re-numbered. See BUS-2220.

BUS-1240 BUSINESS LAW II. 3 CREDITS
Course has been renumbered. See BUS-2240.

BUS-2220 BUSINESS LAW I. 3 CREDITS
An introduction to the principles and theory of American law, as applied in the business environment. Covers sources of law, courts and alternative dispute resolution systems, tort law, business crimes and business ethics, contract law, and other related topics. Prerequisite: BMT-1010 or departmental permission. (Formerly BUS-1220. Students may not receive credit for both BUS-1220 and BUS-2220.)

BUS-2240 BUSINESS LAW II. 3 CREDITS
An advanced study of theory and applications of business law and commercial business transactions in a domestic and international environment. Topics will cover the Uniform Commercial Code (UCC), bankruptcy, basic business organizations and corporations, securities law, antitrust law, and personal property. Prerequisite: BUS-2220. (Formerly BUS-1240. Students may not receive credit for both BUS-1240 and BUS-2240.)

BUSINESS MANAGEMENT (BMT)
Business Studies Department
Bladen Hall, Room 210 | 301-546-0080

BMT-1010 INTRODUCTION TO BUSINESS. 3 CREDITS
Basic characteristics of the business enterprise, its organization and role in a free society. Formerly offered as MGT-1010. Students may not receive credit for both MGT-1010 and BMT-1010. Prerequisite: Reading proficiency.

BMT-1420 ORGANIZATIONAL MANAGEMENT. 3 CREDITS
The rapidly changing business environment forces managers and entrepreneurs to adapt or exit the organization/market. Even if a manager possesses strong strategic management skills, without the ability to manage change and exert the leadership necessary to implement change, the organization will fail. This course is designed to provide an understanding of the forces behind organizational development (OD), the managerial tools used to implement OD, and the managerial skills that will enable the manager to effectively introduce change into the organization. Formerly offered as MGT-1420. Students may not receive credit for both MGT-1420 and BMT-1420. Prerequisite: Reading proficiency.

BMT-1500 DEVELOPING A PROFESSIONAL IMAGE. 1 CREDIT
Techniques for developing a professional image. Attire, nuances of nonverbal communication and office etiquette. Formerly offered as MGT-1500. Students may not receive credit for both MGT-1500 and BMT-1500.

BMT-1550 ELEMENTS OF SUPERVISION. 3 CREDITS
The supervisory function of the first-line supervisor. Emphasis on decision making and problem solving using case studies and role playing. Formerly offered as MGT-1550. Students may not receive credit for both MGT-1550 and BMT-1550. Prerequisite: Reading proficiency.
BMT-1570 SMALL BUSINESS MANAGEMENT. 3 CREDITS
The basics of establishing and managing a small business. Developing a business plan, financing, managing employees and marketing. Formerly offered as MGT-1570. Students may not receive credit for both MGT-1570 and BMT-1570. Prerequisite: Reading proficiency.

BMT-1600 PRINCIPLES OF MANAGEMENT. 3 CREDITS
The business organization, the functions of management and the role of the manager in the decision-making process. Formerly offered as MGT-1600. Students may not receive credit for both MGT-1600 and BMT-1600. Prerequisite: Reading proficiency.

BMT-1620 FINANCIAL PLANNING AND INVESTMENTS. 3 CREDITS
Financial planning concepts, their application and the risk factor in the management of finances. Formerly offered as MGT-1620. Students may not receive credit for both MGT-1620 and BMT-1620. Prerequisite: Reading proficiency.

BMT-1650 CUSTOMER SERVICE. 3 CREDITS
Examines the dynamics of exceptional customer service. Develops skills necessary in dealing with customers effectively, using creative techniques to improve communication skills to achieve customer satisfaction. Formerly offered as MGT-1650. Students may not receive credit for both MGT-1650 and BMT-1650. Prerequisite: Reading proficiency.

BMT-1710 THE BUSINESS PLAN. 3 CREDITS
Students develop professional business plans for the businesses they are interested in starting. The plans may be reviewed by business persons or bankers. Formerly offered as MGT-1710. Students may not receive credit for both MGT-1710 and BMT-1710. Prerequisite: Reading proficiency.

BMT-1800 MICROCOMPUTER APPLICATIONS FOR THE BUSINESS MANAGER. 3 CREDITS
Introduction to computer business applications: word processing, spreadsheets, databases, graphics and communications. Formerly offered as MGT-1800. Students may not receive credit for both MGT-1800 and BMT-1800. Prerequisite: Reading proficiency.

BMT-1900 INTRODUCTION TO PUBLIC ADMINISTRATION. 3 CREDITS
An overview of public administration and its principles, evolution and current issues. Examine the role of government and nonprofit organizations in society. Formerly offered as MGT-1900. Students may not receive credit for both MGT-1900 and BMT-1900.

BMT-1960 PUBLIC SERVICE MANAGEMENT. 3 CREDITS

BMT-2400 STRATEGIC MANAGEMENT. 3 CREDITS
The increasing complexity of the global market requires managers to possess strong conceptual, strategic and tactical skills. This course provides an introduction to the strategic management process: strategy formation, strategy implementation, and strategy evaluation. Application of strategic management concepts to case studies and projects will be used to reinforce students’ mastery of the strategic management process. Formerly offered as MGT-2400. Students may not receive credit for both MGT-2400 and BMT-2400. Prerequisite: BMT-1010 or equivalent. Capstone Course: In addition to the prerequisite courses, students must complete a minimum of 47 credits prior to enrolling in this course. A minimum cumulative GPA of 2.00 or higher is also required.

BMT-2500 INTRODUCTION TO FEDERAL CONTRACTING. 3 CREDITS
Fundamental concepts and principles of the federal procurement system and use of the Federal Acquisition Regulation (FAR). Topics include the background of federal contracting, careers in contracting, types of contracting, competition, federal acquisition process, small purchase procedures, bids and proposals, and the award/protest process. Formerly offered as MGT-2500. Students may not receive credit for both MGT-2500 and BMT-2500. Prerequisite: Reading proficiency.
BMT-2510  INTRODUCTION TO SOURCE SELECTION.  3 CREDITS
Experiencing the source selection process, developing a source selection plan, proposal preparation and evaluation. Content of course includes best and final offer (BAFO), contract format, proposal design, request for proposals (RFP), invitation for bid (IFB), types of source selection, cooperative purchasing, performance base contracting, best value procurement, and open solicitations. Formerly offered as MGT-2510. Students may not receive credit for both MGT-2510 and BMT-2510. Prerequisite: Reading proficiency.

BMT-2520  PRINCIPLES OF NEGOTIATIONS.  3 CREDITS
Negotiation skills, strategies and tactics to effectively prepare, conduct and document a successful negotiated contract using the negotiation process. Formerly offered as MGT-2520. Students may not receive credit for both MGT-2520 and BMT-2520. Prerequisite: Reading proficiency.

BMT-2530  PROCUREMENT LAW.  3 CREDITS
The fundamental rules, regulations, policies and laws pertaining to procurement, changes in the law, remedies for bidders, procurement integrity and ethics. Formerly offered as MGT-2530. Students may not receive credit for both MGT-2530 and BMT-2530. Prerequisite: Reading proficiency.

BMT-2540  CONTRACT ADMINISTRATION.  3 CREDITS
Management of the contract from beginning to the end to comply with the guidelines of the government rules and standards of the contract. Role of the contract officer and the agreement to complete the terms of the contract. Formerly offered as MGT-2540. Students may not receive credit for both MGT-2540 and BMT-2540. Prerequisite: Reading proficiency.

BMT-2550  COST AND PRICE ANALYSIS.  3 CREDITS
Application of fundamental concepts and evaluation of contract price and cost principles. Formerly offered as MGT-2550. Students may not receive credit for both MGT-2550 and BMT-2550. Prerequisites: Reading and math proficiencies.

BMT-2580  COMPENSATION AND BENEFITS MANAGEMENT.  3 CREDITS
Fundamental concepts of compensation management, theory of organizational reward systems, and methods of compensating employees. Topics include compensation objectives, employee benefits options, internal and pay structures, incentive programs, performance appraisals, union and government roles in compensation, and international pay systems. Formerly offered as MGT-2580. Students may not receive credit for both MGT-2580 and BMT-2580. Prerequisite: Reading proficiency.

BMT-2590  EMPLOYEE TRAINING AND DEVELOPMENT.  3 CREDITS
Introduction to organizational training and development through the assessment of training needs in the workplace. Topics include designing and implementing training and development programs; methods of evaluating the effectiveness of these programs; and use of media and technology. Formerly offered as MGT-2590. Students may not receive credit for both MGT-2590 and BMT-2590. Prerequisite: Reading proficiency.

BMT-2610  HUMAN RESOURCE MANAGEMENT.  3 CREDITS
Principles and practices of human resource management in the business organization. Formerly offered as MGT-2610. Students may not receive credit for both MGT-2610 and BMT-2610. Prerequisite: Reading proficiency.

BMT-2630  INTERNATIONAL MANAGEMENT.  3 CREDITS
This course provides future managers with the basic skills and knowledge necessary for transition into the world of international business. Formerly offered as MGT-2630. Students may not receive credit for both MGT-2630 and BMT-2630. Prerequisite: Reading proficiency.

BMT-2650  PURCHASING, CONTRACTING, AND MATERIALS MANAGEMENT.  3 CREDITS
Procurement and materials management, including specifications, source selection, pricing, contracting and inventory control. Formerly offered as MGT-2650. Students may not receive credit for both MGT-2650 and BMT-2650. Prerequisite: Reading proficiency.

BMT-2660  CONFLICT MANAGEMENT.  3 CREDITS
Powerful techniques for dealing effectively and confidently with difficult situations. Building and strengthening more cooperative and productive working relationships. Formerly offered as MGT-2660. Students may not receive credit for both MGT-2660 and BMT-2660. Prerequisite: Reading proficiency.
BMT-2670  SPORTS MANAGEMENT. 3 CREDITS
Focuses on the foundations of the sports management function, preparation of professionals to apply communication, leadership and managerial skills in a variety of career positions in the sports management field. Students will develop knowledge, skills, and application processes to become effective in various positions. Prerequisite: BMT-1010.

BMT-2700  STRESS MANAGEMENT IN THE WORKPLACE.
3 CREDITS
Designed to provide a comprehensive approach to stress management. Through a combination of lectures, experiential learning and self assessment, students will have an opportunity to develop their own strategy for stress management. Formerly offered as MGT-2700. Students may not receive credit for both MGT-2700 and BMT-2700. Prerequisite: Reading proficiency.

BMT-2720  MANAGING WORKPLACE DIVERSITY. 3 CREDITS
This course examines diversity in the workplace and the resulting challenges to corporate culture in developing an understanding of diversity. Formerly offered as MGT-2720. Students may not receive credit for both MGT-2720 and BMT-2720. Prerequisite: Reading proficiency; MGT-1600 recommended.

BMT-2750  LEADERSHIP DEVELOPMENT. 3 CREDITS
Development of practical, effective workplace leadership skills through study, observation and application. Integrates readings from humanities, experiential exercises, films and contemporary readings on leadership. (Credit may not be received for both SPH-2750 and BMT-2750.) Formerly offered as MGT-2750. Students may not receive credit for both MGT-2750 and BMT-2750. Prerequisites: Reading and oral proficiency. (Honors version available.)

BMT-2860  CYBER LAW. 3 CREDITS
Examines current and emerging cyber law issues that are critical to business, government and individuals. Students will examine jurisdiction; protection of intellectual property; contracts and licensing agreements; sales tax; raising equity capital online; privacy; obscenity in cyberspace; defamation; Internet and information security; computer crime; and ethics. The goal is to address these issues in a practical, business-oriented manner and to advance sophistication in the field. As this is a dynamic discipline, subject areas and course materials may vary, as needed, with future developments in the field. Formerly offered as MGT-2860. Students may not receive credit for both MGT-2860 and BMT-2860. Prerequisite: Reading proficiency. BUS-2220 recommended.

BMT-2880  EMERGENCY MANAGEMENT. 3 CREDITS
Provides individuals and organizations with tools to prepare for and recover from both natural and man-made disasters. Students will gain an understanding of risk and crisis management, the need for business continuity and information assurance planning, as well as addressing the leadership, human, organizational and public policy components of disasters. The final project will be a disaster recovery management plan. Formerly offered as MGT-2880. Students may not receive credit for both MGT-2880 and BMT-2880. Prerequisite: Reading proficiency.

BMT-2882  HEALTH CARE MANAGEMENT. 3 CREDITS
Explores basic concepts of management theory as applied to health care. Students will examine the structure of the health care delivery system and management functions such as planning, organizing, directing and controlling. They also will approach health care from a systems and efficiency perspective. Emphasis also will be placed on the need for cost controls as a way of ensuring quality health care. Prerequisite: Reading proficiency.

BMT-2890H  HONORS COLLOQUIUM IN MANAGEMENT.
3 CREDITS
This honors colloquium will examine special topics in the field of management and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator and the instructor. Formerly offered as MGT-2890H. Students may not receive credit for both MGT-2890H and BMT-2890H. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

BMT-2910–2930  COOPERATIVE EDUCATION. 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
**BMT-2960  EMOTIONAL INTELLIGENCE**  
**IN THE WORKPLACE.** 3 CREDITS
Superior performance requires both intellectual and emotional intelligence. This course provides a fundamental understanding of how emotional intelligence (EI) impacts communication, leadership, and decision-making styles as well as how to better utilize EI in managing cross-functional teams and overall workforce productivity. Formerly offered as MGT-2960. Students may not receive credit for both MGT-2960 and BMT-2960. Prerequisite: Reading Proficiency.

**BUSINESS MARKETING (BMK)**
Business Studies Department
Bladen Hall, Room 210 | 301-546-0080

**BMK-2510  INTRODUCTION TO MARKETING.** 3 CREDITS
Principles and techniques of marketing goods and services, including advertising, sales promotion, retailing, and wholesaling. Formerly offered as MKG-2510. Students may not receive credit for both MKG-2510 and BMK-2510. Prerequisite: Reading proficiency.

**BMK-2600  SPORTS MARKETING.** 3 CREDITS
Investigates basic foundations, marketing strategies and promotion techniques related to sports marketing. Students will explore the four domains of sports marketing, an introduction to sponsorship, licensing, endorsements, distribution, and emerging issues and careers in sports marketing. Prerequisite: BMT-1010.

**BMK-2630  INTERNATIONAL MARKETING.** 3 CREDITS
An understanding of the principles of marketing within the context of the international market. Formerly offered as MKG-2630. Students may not receive credit for both MKG-2630 and BMK-2630. Prerequisite: Reading proficiency.

**BMK-2710  SALESMASTSHIP.** 3 CREDITS
Ideas and techniques used in selling and their relationship to specific products and services. Development and maintenance of a sales organization and its personnel. Formerly offered as MKG-2710. Students may not receive credit for both MKG-2710 and BMK-2710. Prerequisite: Reading proficiency.

**BMK-2730  RETAIL BUSINESS MANAGEMENT.** 3 CREDITS
Overview of retail business, including types of businesses, their organization, retail buying, selling, advertising, and merchandising. Formerly offered as MKG-2730. Students may not receive credit for both MKG-2730 and BMK-2730. Prerequisite: Reading proficiency.

**BMK-2770  ADVERTISING.** 3 CREDITS
Overview of the advertising world, including use of media, research and development of ideas, writing copy, and producing radio and television commercials. Formerly offered as MKG-2770. Students may not receive credit for both MKG-2770 and BMK-2770. Prerequisite: Reading proficiency.

**BMK-2910–2930  COOPERATIVE EDUCATION.** 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

**BUSINESS PROPERTY MANAGEMENT (BPM)**
Business Studies Department
Bladen Hall, Room 210 | 301-546-0080

**BPM-1010  INTRODUCTION TO RESIDENTIAL PROPERTY MANAGEMENT.** 3 CREDITS
This course is designed to prepare students to manage multi-family properties. The management of rental property (apartments) is emphasized, but common interest realty associations (CIRA) and other residential property (manufactured and senior housing and single family homes) are also covered. Course topics include: Forms and goals of ownership, leasing, human resource management, property operations, resident policies, marketing, budgeting and planning, legal and risk management, and government regulations. Prepares students for entry-level positions as leasing consultants or assistant property managers, as well as for further professional training and certification. Formerly offered as RPM-1010. Students may not receive credit for both RPM-1010 and BPM-1010. Prerequisites: Reading, English, and mathematics proficiency.

**BPM-1020  MAINTENANCE FOR RESIDENTIAL PROPERTY MANAGEMENT.** 3 CREDITS
Designed to prepare students to develop and implement maintenance systems for residential properties. Course topics include: The property manager’s role in maintenance; conducting inspections; developing and scheduling maintenance programs; budgeting for maintenance; staffing and contracting; energy management; customer service; government codes and regulations; and safety and security. Formerly offered as RPM-1020. Students may not receive credit for both RPM-1020 and BPM-1020. Prerequisite: BPM-1010.
**BPM-2910–2930 COOPERATIVE EDUCATION.** 1–3 CREDITS

Capstone Courses: Students must complete a minimum of 47 credits prior to enrolling in these courses. A minimum cumulative GPA of 2.00 or higher is also required. A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

**BUSINESS REAL ESTATE (BRE)**

Business Studies Department
Bladen Hall, Room 210 | 301-546-0080

All real estate courses are offered in both credit and noncredit modes. Noncredit CEUs in RES-329 may be converted to academic credit through examination. RES-368 and RES-369 can be converted to BRE-2030. Consult program coordinator for details.

**BRE-1030 REAL ESTATE PRINCIPLES AND PRACTICES FOR SALESPERSONS.** 4 CREDITS

Satisfies the 60-hour educational requirement for real estate salesperson licensure. Introduces concepts of property type, various interests in real estate and how they are held, property description, agency, real estate mathematics, property valuation, finance, settlement computations, contract law, real estate finance, transfer of title and taxation. It also presents details of Maryland real estate license law and relevant sections of real property and other statutes that affect the delivery of real estate brokerage services dealing with agency, property disclosure, Fair Housing, real estate ethics, and environmental concerns. Formerly offered as RLS-1030. Students may not earn credit for both RLS-1030 and BRE-1030. Prerequisite: Reading proficiency.

**BRE-2030 REAL ESTATE FINANCE AND INVESTMENT.** 3 CREDITS

Decision-making analysis for real estate investment based on both the characteristics of the investment property and the availability and cost of funds appropriate for the project. Cash-flow forecasting, arranging financing, creative financing, tax implications and timing of disposal of property. Uses spreadsheets and financial calculators. Formerly offered as RLS-2030. Students may not earn credit for both RLS-2030 and BRE-2030. Prerequisites: Reading and arithmetic proficiency.

**BRE-2910–2930 COOPERATIVE EDUCATION.** 1–3 CREDITS

A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

**CAREER ASSESSMENT AND PLANNING (CAP)**

Career Services | Marlboro Hall, Room 2102 | 301-546-0136

**CAP-1050 PORTFOLIO DEVELOPMENT.** 3 CREDITS

Students develop a portfolio that documents college-level learning acquired from life/work experience including business, the military, and volunteer/community involvement. Required for Prior Learning Assessment (PLAN) credit through the portfolio assessment process. Prerequisite: Reading and English proficiency and permission of PLAN coordinator.

**CAP-1300 CHOOSING YOUR COLLEGE MAJOR.** 1 CREDIT

Develops a profile of student interests and abilities and identifies college majors that match individual strengths and current job outlook. (Credit may not be received for both CAP-1300 and CAP-1100.)

**CAP-1310 CAREER ASSESSMENT AND PLANNING.** 3 CREDITS

An intensive, comprehensive exploration of students’ marketable skills, interests, abilities, and values. Follows a career decision-making process that results in clear career goals and implementation plans.

**CHEMISTRY (CHM)**

Physical Sciences and Engineering Department
Chesapeake Hall, Room 100 | 301-546-0420

**CHM-1010 GENERAL CHEMISTRY I.** 4 CREDITS

University-parallel introductory chemistry sequence. Structure of matter, bonding, reactions and changes of state. Prerequisite: MAT-1350 with grade of C or higher; EGL-1010 completed or concurrent. 3 class/3 lab/1 rec hours.

**CHM-1020 GENERAL CHEMISTRY II.** 3 CREDITS

Continuation of university-parallel sequence. Systems in equilibrium, thermodynamics, electrochemistry, kinetics, and nuclear chemistry. Prerequisite: CHM-1010 with grade of C or higher.
CHM-1030  GENERAL CHEMISTRY II LABORATORY.  2 CREDITS
Introduction to quantitative, qualitative and instrumental analysis with applications to a broad range of chemical systems. Prerequisite: CHM-1010; CHM-1020 completed or concurrent. 1 class/3 lab hours.

CHM-2000  CHEMISTRY FOR ENGINEERS.  4 CREDITS
Calculus-based class designed for students who wish to have a highly technical understanding of chemistry for application design. In CHM-2000, students will be provided with the essential application-based background to understand materials, fluids, and gases working from atomic models up to the macroscopic level. This course will develop and broaden your understanding of the matter, energy, and physical properties. Traditional general chemistry topics will be covered in a technically detailed fashion. Additional topics will include bonding reactions, changes of states, equilibrium, thermodynamics, electrochemistry, kinetics, and nuclear chemistry. Practical skills will be developed such that students will be able to predict and describe in appropriate technical detail the properties of a chemical system along with modern materials such as polymers and semiconductors and with modern devices such as fuel cells and batteries. Prerequisite: MAT-2410 and EGR-1010 with grade of C or higher. 3 class/3 lab/1 rec hours.

CHM-2010  ORGANIC CHEMISTRY I.  4 CREDITS
University-parallel organic chemistry sequence. Classes of organic compounds and their reactions, stereochemistry and reaction mechanisms, and basic laboratory techniques for synthesis and analysis. Prerequisite: CHM-1020. 3 class/4 lab hours.

CHM-2020  ORGANIC CHEMISTRY II.  3 CREDITS
Continuation of CHM-2010 with emphasis on reaction mechanisms, synthesis, and spectroscopy of organic compounds. Prerequisite: CHM-2010.

CHM-2040  ORGANIC CHEMISTRY II LABORATORY.  2 CREDITS
Experiments in organic synthesis and analysis of compounds from CHM-2020 with emphasis on microscale and instrumental techniques, including spectroscopy. Prerequisite: CHM-2020 completed or concurrent. 4 lab hours.

CHM-2050  INSTRUMENTAL ANALYSIS.  4 CREDITS
The use of scientific instruments in forensic testing is the focus of this course. Lectures and laboratories cover instrumentation theory, data systems, method development and qualitative and quantitative analytical techniques. Techniques discussed with laboratory activities include gas chromatography (GC), infrared spectrometry (IR), ultraviolet-visible spectrometry (UV-Vis), high-performance liquid chromatography (HPLC), and gas chromatography-mass spectrometry (GC-MS). (Credit will not be given for both FOS-2050 and CHM-2050). Prerequisites: CHM-1020 and CHM-1030. 3 class/4 lab hours. (Offered spring only.)

CHM-2070  SURVEY OF BIOCHEMISTRY.  3 CREDITS
An interdisciplinary examination of living systems at the chemical level. Topics include structure and function of macromolecules, with an emphasis on protein structure and enzyme function, cellular energetics, and cellular respiration. Prerequisites: BIO-1140 and CHM-2010.

CHM-2890H  HONORS COLLOQUIUM IN CHEMISTRY.  3 CREDITS
This Honors Colloquium will examine special topics in the field of chemistry and its relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of the instructor or honors coordinator.

CHM-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

CHM-2990H  HONORS SEMINAR IN ENGINEERING AND SCIENCE (SPECIAL TOPICS).  1 CREDIT
Seminar course that introduces and studies emerging issues in science, engineering, technology, and mathematics. Topics vary by semester. Also offered as BIO-2990H and EGR-2990H. Prerequisites: A 3.00 GPA, completion of a minimum of 18 credits in courses offered by the division of Science, Technology, Engineering, and Mathematics, and permission of the instructor or the honors program coordinator.
CHINESE (CHN)
Language Studies Department
Bladen Hall, Room 309 | 301-546-0946

CHN-1000 CHINESE FOR BEGINNERS. 3 CREDITS
Designed for students who are true beginners without any background knowledge of the Chinese language. This course will focus on the four skills of listening, speaking, reading, and writing. Students will learn Mandarin pronunciation, grammar, and Chinese characters. 3 class/1 lab hour or equivalent.

CHN-1010 ELEMENTARY CHINESE. 3 CREDITS
A continuation of CHN-1000 which will focus on the four skills of listening, speaking, reading, and writing. Students will learn Mandarin pronunciation, grammar, and Chinese characters. Prerequisite: CHN-1000. 3 class/1 lab hour or equivalent.

CONSTRUCTION MANAGEMENT (CSM)
Information and Engineering Technology Department
Center for Advanced Technology, Room 129 | 301-546-0752

CSM-1410 CONSTRUCTION MATH. 3 CREDITS
Specialized mathematics for the construction industry. Useful for success in core construction management courses and required for estimating. Includes dimensional conversions, basic computations of areas and volumes, comparison of estimations and exact calculations, and cost calculations. (May also be taken as a noncredit course, CST-337 Construction Math.)

CSM-1450 CONSTRUCTION MANAGEMENT I. 3 CREDITS
Construction contracting and the workings of the construction industry with an emphasis on responsibilities of middle management in a construction project. (May also be taken as a noncredit course, CST-335 Construction Management I.)

CSM-1460 CONSTRUCTION METHODS AND MATERIALS. 3 CREDITS
Introduction to the materials and techniques used in the construction of commercial wood, steel, and concrete buildings. Covers sitework, structure, building exterior, finishes, mechanical systems, and electrical systems. (Credit may not be received for both CSM-1460 and ENT-161.) (May also be taken as a noncredit course, CST-382 Construction Methods and Materials.)

CSM-1470 CONSTRUCTION PLANNING AND SCHEDULING. 3 CREDITS
Course has been re-numbered. See CSM-2470.

CSM-1480 CONSTRUCTION ESTIMATING. 3 CREDITS
Course has been re-numbered. See CSM-2480.

CSM-1500 CONSTRUCTION SURVEYING. 3 CREDITS
Course has been re-numbered. See CSM-2500.

CSM-1510 RESIDENTIAL CONSTRUCTION MANAGEMENT. 3 CREDITS
An overview of the residential construction process, from concept through design, finance and construction, to turnover. This course is aimed at the owner/builder and is designed to explain his/her role in each step of the process. (May also be taken as a noncredit course, CST-346 Build Your Own House.)

CSM-1600 CONSTRUCTION SAFETY. 2 CREDITS
OSHA policies, procedures, standards, and safety and health principles, including the scope and application of the 29 CFR-1926. Students successfully completing the course will receive OSHA 30-hour construction safety cards. (May also be taken as a noncredit course, CST-311 Construction Safety.)

CSM-1830 CONSTRUCTION PRINT READING. 3 CREDITS
Covers reading and interpreting construction drawings and specifications of residential and light commercial buildings. Emphasis is on the architectural, mechanical, and site aspects of working drawings. Topics include plan and elevation views, symbols and notations, scaling and dimensional practices, structural information, detail drawings, plot plans, and reading drawings for trade information. (May also be taken as a noncredit course, CST-345 Construction Print Reading.)

CSM-1850 CONSTRUCTION QUALITY CONTROL. 3 CREDITS
General overview of the contractor’s quality control (QC) as it pertains to each trade on the job. Includes documentation, support and the interaction between construction and QC. (May also be taken as a noncredit course, CST-309 Construction Quality Control.)

CSM-1860 CONSTRUCTION CODES. 3 CREDITS
Overview, basis, and structure of the International Building Code, with emphasis on commercial construction. Provides students with the ability to conduct a code compliance inspection.
CSM-2310 CONSTRUCTION ENTREPRENEURSHIP. 3 CREDITS
The initial considerations and decisions needed to successfully start a construction company, plus the business and regulatory requirements that must be met during the startup phase of a construction business. (May also be taken as a noncredit course, CST-389 Start Your Own Construction Company.)

CSM-2410 COMMUNICATION AND COMPUTERS IN CONSTRUCTION. 3 CREDITS
This course combines the everyday communications that are a vital part of the construction process with the use of computers as their main tool. The communication side covers the four main avenues (speaking, listening, reading, writing) with clarity and focus. The computer side covers spreadsheets, word processing, scheduling, and money control.

CSM-2450 CONSTRUCTION MANAGEMENT II. 3 CREDITS
Contracting requirements of the construction project. Requirements stated in contract documents incorporate the scope of work and terms and conditions between the client and constructor. Course emphasizes the importance of economics and legal ramifications of the project documents. Prerequisite: CSM-1450. (May also be taken as a noncredit course, CST-396 Construction Management II.)

CSM-2470 CONSTRUCTION PLANNING AND SCHEDULING. 3 CREDITS
Comprehensive overview and analysis of the requirements and use of planning and scheduling as an effective management tool. Includes the use of Microsoft Project with special emphasis on the planning process. (May also be taken as a noncredit course, CST-354 Construction Planning and Scheduling.) (Formerly offered as CSM-1470. Students may not receive credit for both CSM-1470 and CSM-2470.) Prerequisite: INT-1010 or 1330.

CSM-2480 CONSTRUCTION ESTIMATING. 3 CREDITS
Introduction to construction estimating, including its purpose, methods of preparing estimates, types of estimates and handling of construction trades. (May also be taken as a noncredit course, CST-383 Construction Estimating I.) (Formerly CSM-1480. Students may not receive credit for both CSM-1480 and CSM-2480.) Prerequisite: CSM-1450 or 1830.

CSM-2500 CONSTRUCTION SURVEYING. 3 CREDITS
A course designed for construction personnel who must implement and lay out a site development plan. Lectures and hands-on field work help the student develop an understanding and use of the builder transit/level in all phases of construction. (Formerly CSM-1500. Students may not receive credit for both CSM-1500 and CSM-2500.) Recommended: MAT-1120, completed or concurrent.

CSM-2610 BUILDING MECHANICAL AND ELECTRICAL SYSTEMS. 3 CREDITS
Overview of the systems in a commercial building—plumbing, HVAC, sprinkler, elevator, electrical (power, fire alarm, communications, and security), and their controls. Emphasis is on understanding system function and interconnection, rather than design. (May also be taken as a noncredit course, CST-415, Mechanical and Electrical Systems in Construction)

CSM-2850 LEADERSHIP IN CONSTRUCTION. 3 CREDITS
Principles of effective leadership as they apply to the construction industry, both in the field and in the office. Directed to all levels of responsibility from field foreman to upper management.

CSM-2900 CONSTRUCTION ENTERPRISE PROJECT. 3 CREDITS
Working in teams, students will use the knowledge gained in previous courses to manage a multi-million-dollar construction project from start to finish. The teams will be presented with an initial design and create bids and schedules to run the job. Supervising faculty will present the teams with problems, disputes, and conflicts that must be dealt with to successfully complete a quality product on time and within budget. The teams also will produce written reports and oral presentations during the project. Prerequisites: CSM-1450, 1460, 2470, 2480, and 1830. Capstone Course: In addition to all prerequisites, students must complete a minimum of 46 credits of courses relevant to the major prior to enrolling in this course. A minimum cumulative GPA of 2.00 or higher is also required.

CSM-2910–2930 COOPERATIVE EDUCATION. 1-3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
**CORRECTIONAL SERVICES (COR)**
Public Safety and Law Department
Bladen Hall, Room 208 | 301-546-0553

**COR-1510** INTRODUCTION TO CORRECTIONS. 3 CREDITS
A survey of the corrections field, including courts, detention, sentencing, adult institutions, probation, parole, and staffing and personnel issues. The history and philosophy of corrections will be examined with the purpose of building a framework for understanding current sentencing and correctional practices. Prerequisite: Reading proficiency.

**COR-1530** CORRECTIONS MANAGEMENT. 3 CREDITS
Course has been re-numbered. See COR-2570.

**COR-2510** PROBATION, PAROLE, AND COMMUNITY-BASED CORRECTIONS. 3 CREDITS
A study of the philosophy and functioning of community-based corrections organizations, specifically probation and parole. Emphasis is placed on the historical development of community-based practices, analysis of potential alternatives to current parole and probation procedures, including restorative justice measures and discussion of important issues and problems currently facing community-based corrections. Prerequisite: Reading proficiency.

**COR-2570** CORRECTIONS MANAGEMENT. 3 CREDITS
A study of the concepts, planning considerations, management theory and operational implications for staffing, security, safety, and treatment in the effective management of prisons, jails and detention facilities. Prerequisite: COR-1510 or departmental permission. (Formerly COR-1530. Students may not receive credit for both COR-1530 and COR-2570.)

**CRIMINAL JUSTICE (CJT)**
Public Safety and Law Department
Bladen Hall, Room 208 | 301-546-0553

**CJT-1520** POLICE OPERATIONS. 3 CREDITS
An exploration of the field of law enforcement, to include the duties, authority, responsibilities, and rights of the uniformed police officer. Emphasis is placed upon the function of patrol officers as it relates to the foundations of policing in America. Prerequisite: Reading proficiency.

**CJT-1530** COMMUNITY POLICING. 3 CREDITS
A study of the relationship between police and the community with recommendations for ways of working together to reduce crime. Emphasis is placed on policing in a culturally diverse society. (Credit may not be received for both SOC-1530 and CJT-1530.) Prerequisite: Reading proficiency.

**CJT-1540** POLICE MANAGEMENT. 3 CREDITS
Course has been re-numbered. See CJT-2570.

**CJT-1550** JUVENILE DELINQUENCY. 3 CREDITS
Course has been re-numbered. See CJT-2580.

**CJT-1700** VICTIMOLOGY AND VIOLENCE. 3 CREDITS
The study of victimization, crime typologies, and the impact of crime on victims, offenders and society. Prerequisite: Reading proficiency.

**CJT-1730** INTRODUCTION TO SECURITY. 3 CREDITS
An introduction to the basic principles and concepts of security and asset protection, from historical and modern-day points of view. Emphasis is on the protection of assets, personnel, and facilities involving both private and government entities.

**CJT-1740** SECURITY OPERATIONS. 3 CREDITS
An examination of the increasing role private security plays in crime prevention, detection and investigation. Emphasis is on physical and procedural operations.

**CJT-2510** CRIMINAL LAW. 3 CREDITS
A study of substantive criminal law, including elements of state and federal crimes. Constitutional limitations on the types of conduct that can be criminalized, affirmative defenses to criminal liability, appropriate criminal statutes, and interpretive court decisions will be examined. Prerequisite: Reading proficiency.
CJT-2530 CRIMINAL INVESTIGATION. 3 CREDITS
A study of the fundamental principles and procedures employed in the investigation of crime. Emphasis is placed on the investigation of specific crimes, the identification of sources of information and the procedures necessary for the proper handling of evidence. The course is designed to develop a working knowledge of the steps of investigation beginning with the initial security of the crime scene and concluding with the presentation of evidence and proper testimony in court. Prerequisite: Reading proficiency.

CJT-2540 CRIMINAL EVIDENCE AND PROCEDURE. 3 CREDITS
An examination of the principles and techniques of criminal procedure employed during trials to determine the admissibility of physical and testimonial evidence. An analysis of laws and court decisions relating to admissibility is emphasized. Prerequisite: Reading proficiency.

CJT-2560 TERRORISM AND BIOSECURITY. 3 CREDITS
A survey of historical, current and future acts of foreign and domestic terrorism. Emphasis is placed on the threat of terrorism, both nationally and Internationally, weapons of mass destruction, and biological, chemical, nuclear and cyber agents. Includes investigative methods and procedures and the development of response plans. Prerequisite: Reading proficiency.

CJT-2570 POLICE MANAGEMENT. 3 CREDITS
A study of the administration of police to include the organizational structure, function, and theory related to the practice of police management. Prerequisite: CJT-1510 or permission of department. (Formerly CJT-1540. Students may not receive credit for both CJT-1540 and CJT-2570.)

CJT-2580 JUVENILE DELinquency. 3 CREDITS
A study of the causes and trends of youth crime. The prediction, prevention, treatment, and control of juvenile delinquency by social control agencies is examined relative to social policies needed to reduce its incidence. The organization and procedures of the juvenile justice system will be explored. Prerequisite: CJT-1510 or permission of department. (Formerly CJT-1550. Students may not receive credit for both CJT-1550 and CJT-2580.)

CJT-2800 PROFESSIONAL ETHICS IN CRIMINAL JUSTICE. 3 CREDITS
Examines the decision-making process of those involved in the field of public safety, including law enforcement and corrections, as it relates to morals, values, integrity, discretion and authority. The course queries ethics relating to the fair and equal treatment of those involved in the criminal justice process to include criminal justice personnel, victims, and criminals. Topics relating to the history, definition, categories, and theories of ethics; lying and deception as it relates to the field of criminal justice; prejudice and discrimination in the field of criminal justice; and abuse of authority specific to the field of criminal justice will be examined. Prerequisite: Reading proficiency.

CJT-2900 CAPSTONE SEMINAR IN CRIMINAL JUSTICE. 3 CREDITS
This course is the culmination of the criminal justice students' academic experience. It serves to synthesize the knowledge gained from courses taken within the criminal justice curriculum and better prepare the graduate to progress to upper-level studies in the discipline, or for entry-level career positions in the criminal justice field. Among other requirements, the student will develop and prepare an individual research project that will be presented to the class, as well as an external audience. The course also includes a comprehensive final examination based on the programs' learning outcomes. Capstone Course: In addition to completing prerequisite courses, students must also have completed a minimum of 45 credits and all required criminal justice (CJT) courses before enrolling in this course. A minimum GPA of 2.00 is also required. Prerequisites: CJT-1510, 1520, 1530, 2510, 2530, 2540, 2580, and 2800 or permission of department.

CJT-2910–2930 CJT INTERNSHIP. 1–3 CREDITS
The internship is a practicum with measurable learning objectives designed to broaden the educational experience. Students are assigned to appropriate governmental and private criminal justice agencies. A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
**CULINARY ARTS (CUL)**
Hospitality, Tourism, and Culinary Arts Department
Chesapeake Hall, Room 100 | 301-546-3090

**Cul-1100  INTRODUCTION TO CULINARY ARTS.** 3 CREDITS
Introductory food production class for culinary students. Topics include the theories and methods of cooking, vocabulary, and the development of safe and sanitary kitchen practices. Production items will include vegetable and starch preparation, stocks and soups, and egg cookery. Prerequisite: HSM-1550 completed or concurrent. 2 class/2 lab hours.

**Cul-1150  FOOD PRODUCTION I.** 3 CREDITS
A continuation of CUL-1100. Topics include stocks, soups, sauces, beef, pork and poultry items, vegetables, and starches. Utilizing recipes and techniques as presented in class, students will prepare a number of buffets. Prerequisite: CUL-1100. 1 class/4 lab hours.

**Cul-1300  BAKING SKILLS.** 3 CREDITS
An introductory course in the principles of baking, with emphasis on bakeshop ingredients, their function, measurement, and scaling. Scratch baked items to include quick breads and muffins, yeast breads, cookies, Danish pastries, and assorted pies. Prerequisite: CUL-1100. 1 class/4 lab hours.

**Cul-2150  FOOD PRODUCTION II.** 3 CREDITS
An advanced food production class. Production topics will include principles of plate presentation, entrée, starch, vegetables, seafood, veal, and lamb cookery. Additional topics will include menu construction, pricing, and production. Prerequisite: CUL-1150. 1 class/4 lab hours.

**Cul-2200  GARDE MANAGER AND CATERING.** 3 CREDITS
This course focuses on cold food preparation and presentation in buffet and catering applications, including appetizers, hors d’oeuvres, canapés, pates, sausages, terrines and buffet salads, buffet design, layout and execution, and menu planning. Prerequisite: CUL-2150. 1 class/4 lab hours.

**Cul-2300  ADVANCED BAKING AND PASTRY.** 3 CREDITS
A continuation of CUL-1300. Topics include tarts, cakes, and restaurant-style desserts, production and use of sauces, and plate presentations. Students will be required to create a dessert menu and demonstrate baking proficiency through production of selected menu items. Prerequisites: CUL-1100 and CUL-1300. 1 class/4 lab hours.

**Cul-2450  INTERNATIONAL CUISINE.** 3 CREDITS
A continuation of CUL-2150. Production will include French, Italian, Asian, and other ethnic and regional cuisines. Discussion topics will include indigenous ingredients, flavors, cooking methods, and techniques. Prerequisite: CUL-2150. 1 class/4 lab hours.

**Cul-2760  INTERNSHIP.** 1 CREDITS
Students will complete a 30-hour work-based experience and prepare pre- and post-experience reports. It may be paid or unpaid and should match the students’ professional aspirations. Prerequisite: CUL-2150 and permission of the program coordinator.

**DEVELOPMENTAL ENGLISH (DVE)**
Developmental English and Reading Department
Marlboro Hall, Room 2118 | 301-546-0495
DVE courses meet for 3 class hours and 2 open-lab hours per week or equivalent.

**Dve-0009  FUNDAMENTAL LANGUAGE SKILLS.**
0 CREDITS (4 EHS)
Preparation for DVE-0011. This course helps students write various types of clear, concise sentences and coherent paragraphs. It emphasizes basic sentence structure and includes practice with subjects and verbs, fragments and run-on sentences, and sequence of tenses. Four equivalent hours (EHs) awarded for successful completion. (Formerly DLS-0031. Students who have passed DLS-0031 should not take this course.)

**Dve-0011  DEVELOPMENTAL COMPOSITION.**
0 CREDITS (4 EHS)
Preparation for credit-level English. This course develops basic English skills and familiarizes students with the fundamental principles of written communication. It emphasizes writing clear, effective paragraphs, and correcting weaknesses in sentence structure, grammar, and usage. Four equivalent hours (EHs) awarded for successful completion.
DVE-0012  FOUNDATIONS OF COMPOSITION 
AND COMPREHENSION.  0 CREDITS (6 EHS) 
Designed to prepare students for college-level courses, specifically by improving skills in vocabulary, reading, comprehension, and effective written communications. Application of these skills will not only enable students to become more effective and efficient readers of their college textbooks but will also familiarize them with the fundamental principles of written communication. Emphasis will be placed on understanding and analyzing various texts and on writing clear and effective paragraphs or essays. DVE-0012 consists of the equivalent of thirty 2.5-hour class sessions and 25 1-hour supervised laboratory sessions or documented tutoring sessions. Six equivalent hours (EHs) awarded for successful completion.

DEVELOPMENTAL LEARNING SUPPORT (DLS) 
Learning Foundations Division 
Marlboro Hall, Room 2118 | 301-546-0495

DLS-0011  FUNDAMENTAL ARITHMETIC SKILLS. 
0 CREDITS (2 EHS) 
Preparation for DVM-0031. Review of basic arithmetic operations on whole numbers, fractions and decimals, including number properties. Two equivalent hours (EHs) awarded for successful completion.

DEVELOPMENTAL MATH (DVM) 
Developmental Mathematics Department 
Marlboro Hall, Room 2118 | 301-546-0495

DVM-0021  ARITHMETIC AND ALGEBRA REVIEW. 
0 CREDITS (1 EH) 
This is not a regular class in the DVM sequence. This is a review course only. Includes all content of DVM-0031 and DVM-0071. The math placement exam must be taken on the last day of the course. This exam score will determine actual placement in the appropriate DVM or MAT class. One equivalent hour (EH) awarded for successful completion. 1 class/1 lab hour per week.

DVM-0031  PREALGEBRA.  0 CREDITS (4 EHS) 
Preparation for DVM-0071. Review of basic arithmetic operations; applications including ratio and proportion, percent, geometry, measurement and statistics; signed numbers; and equations. Four equivalent hours (EHs) awarded for successful completion. Prerequisites: Reading proficiency or concurrent enrollment in DVR-0051 and satisfactory basic mathematics placement test score. 4 class/1 lab hour per week.

DVM-0071  INTRODUCTORY ALGEBRA.  0 CREDITS (4 EHS) 
Preparation for MAT-0104. Linear equations and inequalities, graphing, polynomials, algebraic fractions, radicals, quadratic equations, and applications. Four credit-hour load equivalent. Four equivalent hours (EHs) awarded for successful completion. Prerequisite: Reading proficiency or concurrent enrollment in DVR-0061 and satisfactory placement test score or completion of DVM-0031 with grade of C or higher is required. 4 class/1 lab hour per week.

DVM-0081  ELEMENTARY AND INTERMEDIATE ALGEBRA REVIEW.  0 CREDITS (1 EH) 
This is not a regular class in the DVM sequence. This is a review course only. Includes all content from DVM-0071 and MAT-0104. The math placement exam must be taken on the last day of the course. This exam score will determine actual placement in the appropriate DVM or MAT class. One equivalent hour (EH) awarded for successful completion. Prerequisite: Satisfactory placement score or successful completion of DVM-0031. 1 class/1 lab hour per week.
DEVELOPMENTAL READING (DVR)
Developmental English and Reading Department
Marlboro Hall, Room 2118 | 301-546-0495

**DVR-0051 DEVELOPMENTAL READING.** 0 CREDITS (4 EHS)
This course develops basic reading skills including vocabulary, comprehension and study skills. It emphasizes using phonics and structure to analyze unfamiliar words, acquiring general vocabulary through context clues and affixes, and comprehending sentences and paragraphs through main ideas, details, inferences and fact and opinion. Four equivalent hours (EHs) awarded for successful completion. 3 class/2 lab hours.

**DVR-0061 COLLEGE READING AND STUDY SKILLS.** 0 CREDITS (4 EHS)
This course improves students’ skills in vocabulary, comprehension, and studying. Application of these skills will enable a student to read his/her college textbooks more effectively and efficiently. Topics include topic, main idea, details, writing patterns, critical reading, and note taking. Four equivalent hours (EHs) awarded for successful completion. Successful completion meets the Reading proficiency required for enrollment in credit courses. 3 class/2 lab hours.

Students admitted to Prince George’s Community College before fall 2014 are required to take PAS-1010 Principles and Strategies of Successful Learning in the same semester as DVR-0061.

**DVR-0071 ACCELERATED COLLEGE READING AND STUDY SKILLS.** 0 CREDITS (2 EHS)
Preparation for credit courses requiring the reading prerequisite. A fast-paced course with emphasis on critical reading and thinking, summarizing, paraphrasing as well as the basic reading elements—main ideas, supporting details, inferences, and patterns of organization. Two equivalent hours (EHs) awarded for successful completion. Students must enroll in DVR-0061 if this course is failed. Prerequisite: Reading Placement Test score of 70–78.

ECONOMICS (ECN)
Business Studies Department
Marlboro Hall, Room 2054 | 301-546-0525

**ECN-1010 ECONOMIC DEVELOPMENT.** 3 CREDITS
Development of American capitalism, including evolution of the capitalistic system and roles of agriculture, manufacturing, trade, transportation, communication, money and banking, government and international trade. Prerequisite: Reading proficiency.

**ECN-1030 PRINCIPLES OF MACROECONOMICS.** 3 CREDITS SS
First semester of university-parallel sequence. Introduction to economic macroanalysis, emphasizing gross national product, national income, consumption, investment, taxation, government spending, and monetary and fiscal policies. Prerequisites: Reading and mathematics proficiencies or DVM-0071 completed or concurrent.

**ECN-1040 PRINCIPLES OF MICROECONOMICS.** 3 CREDITS SS
Course has been re-numbered. See ECN-2040.

**ECN-2040 PRINCIPLES OF MICROECONOMICS.** 3 CREDITS SS
Second semester of university-parallel sequence. Introduction to economic microanalysis, focusing on the role of the individual consumer, and the behavior of businesses under different market conditions. Prerequisites: ECN-1030.
(Formerly ECN-1040. Students may not receive credit for both ECN-1040 and ECN-2040.)

**ECN-2910–2930 COOPERATIVE EDUCATION.** 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
EMERGENCY MEDICAL TECHNICIAN (EMT)

Many former EMT courses are now located under a new subject heading, Paramedic (PMD), to be found later in this chapter.

EMT-1000  EMERGENCY MEDICAL TECHNICIAN (EMT) THEORY. 6 CREDITS
Prepares student in basic medical pre-hospital emergency care, following the standards and guidelines set by the Maryland Institute of Emergency Medical Services Systems (MIEMSS), the accrediting agency for EMT programs in Maryland. Lecture topics include anatomy and physiology of the chest, abdomen, and head; patient assessment; basic life support, trauma and medical emergencies; immobilization techniques; and childbirth. Lab sessions focus on skill mastery in caring for these patients, including the continued development of critical thinking skills and the development and implementation of treat plans for patients with various disease and traumatic states encountered in the pre-hospital environment. Continued attention is given to preparation for a role as an EMT team leader, patient advocate and for entry-level practice as an Emergency Medical Technician professional in the pre-hospital environment. Prerequisites: Reading proficiency and minimum age of 18. Corequisite: EMT-1100. 4 class/4 lab hours.

EMT-1100  EMERGENCY MEDICAL TECHNICIAN (EMT) CLINICAL. 4 CREDITS
Provides the Emergency Medical Technician student with an opportunity to integrate and apply knowledge and skills introduced in EMT-1000. Precepted patient care experiences are facilitated through ride-alongs on basic ambulances in the Prince George’s County Fire/EMS Department, a field clinical affiliate of the program. Prerequisites: Reading proficiency and minimum age of 18. Corequisite: EMT-1100. 8 clinical hours.

EMT-2520  MEDICAL EMERGENCIES AND PATIENT ASSESSMENT II. 3 CREDITS
Emphasizes advanced pathological concepts and principles in caring for patients experiencing medical emergencies in the pre-hospital environment related to respiratory, cardiac, neurological, endocrinological, allergic, gastroenterological, urological and nephropathological, hematological, obstetrical and gynecological, and psychiatric and behavioral issues. Lab focuses on advanced skill mastery in caring for these patients, including the continued development of critical thinking skills and the development and implementation of treatment plans for patients with various disease states encountered in the pre-hospital environment. Continued attention is given to preparation for a role of EMS team leader, patient advocate and for entry level practice as a paramedic professional in the pre-hospital environment. Prerequisites: EMT-I Certification and program admission. Corequisite: EMT-2530. 2 class/2 lab hours.

EMT-2530  PARAMEDIC PRACTICE III. 3 CREDITS
Supervised experience provided correlating knowledge and skills presented in EMT-2510. Experience will be focused on the emergency department, operating room, obstetric and pediatric units, and paramedic units in the region. Prerequisites: EMT-I Certification and program admission. Corequisite: EMT-2520. 16 clinical hours/week.

EMT-2540  PARAMEDIC PRACTICE IV. 3 CREDITS
Practice of comprehensive patient assessment and intervention in specialty facilities on advanced life support units. Includes a final written review examination, advanced practical skills review and mock practical exam. Final cumulative program course. Prerequisites: EMT-2520 and 2530. Corequisite: EMT-2560. Capstone Course: Students must have completed a minimum of 53 credits, including the prerequisite courses, prior to enrolling in this course. 16 clinical hours/week.

EMT-2560  PREPARATION FOR EMT-P CERTIFICATION. 2 CREDITS
Provides students with a comprehensive review and synthesis of the knowledge base of the paramedic. Integration and application of assessment, information-gathering skills, and decision-making will be employed through computer-assisted and scenario-based exercises. Prerequisites: EMT-2520 and 2530. Corequisites: EMT-2580 and 2540. 4 lab hours.

EMT-2580  STUDY OF HUMAN SYSTEMS FOR PARAMEDICS. 4 CREDITS
This course is a corequisite for the EMT-Paramedic Program, following the DOT EMT-Paramedic program guidelines. It utilizes a systematic approach, beginning by formulating a basic picture of the human body and then moving into more anatomic detail. Lectures and labs discuss body systems, both how they function individually and together as a unit. In addition to the overall picture of each system, this course presents the gross anatomy and the microscopic anatomy of vital structures, with special emphasis on how these structures function in diseased states during medical emergencies encountered by the paramedic in the pre-hospital environment. Prerequisites: EMT-2530 and 2520 with grades of C or higher. Corequisites: EMT-2540 and 2560. 3 class/2 lab hours.
ENGINEERING (EGR)
Physical Sciences and Engineering Department
Chesapeake Hall, Room 100 | 301-546-0420
A grade of C or higher is required for any course used to satisfy a prerequisite for any other course.

EGR-1010 INTRODUCTORY ENGINEERING. 3 CREDITS
This course introduces the student to the theory and practice of engineering. The course has four main parts, each part covering important aspects of engineering, giving the student a full picture of the career they are about to embark upon. The first part will help the student understand what an engineer is and what type of work they would be expected to perform in society. Included in this will be discussions of ethics and group dynamics. The second part will deal with higher level engineering concepts. This will be developed in an application area such as a research laboratory giving students exposure to professional practices common in all engineering disciplines. A number of professional papers will be reviewed leading to the creation of a hypothetical laboratory emphasizing the interaction common to all engineering disciplines. The third part will cover fundamental aspects of engineering including drawing, modeling, problem solving, design, and laboratory experimentation. Basic computer skills will be developed using MATLAB, Fortran, C, or a similar high level computer language. Finally a team project will constitute the fourth part. The teams will be expected to develop a product using a number of engineering and software skills. Teamwork along with communication skills (oral, written, and graphical) is exercised throughout the course. Prerequisite: EGR-1140 or 1210 with grade of C or higher. MAT-1360 or 1370 with grade of C or higher. MAT-2410 and EGL-1010 completed or concurrent. 2 class/3 lab hours.

EGR-1140 COMPUTER PROGRAMMING FOR ENGINEERS AND SCIENTISTS. 3 CREDITS
This is a high-level introduction to computer tools and computer programming for the engineer and scientist. The goal is to develop within the student sufficient knowledge to perform analysis using common engineering and science programming languages. Topics will include algorithm analysis and solution, program structures, data structures, modular design, and overviews of the computer hardware, various computer tools available to solve real world problems and object-oriented structure. A variety of languages will be introduced such as MATLAB, Fortran, and C with a primary emphasis on one of these languages. The results will be to ensure that from the primary languages a student can easily master the other languages. Along with the aforementioned languages, a number of engineering specific languages such as LABView, Spice, and VHDL will be introduced and practiced in laboratory. Prerequisite: MAT-1360 completed or concurrent with grade of C or higher.

EGR-1210 COMPUTER SCIENCE I. 4 CREDITS
Computer science concepts studied from theoretical and practical viewpoints, including program analysis and life cycle design, formal syntactics of the Java or other object oriented language, program control structures, subprograms, algorithm design and analysis, recursion, computer architecture, number systems, and data storage. Applications studied include numerical methods, creating libraries, character processing, simulating logic circuits, sorting, searching, set operations, use of matrices. Object Oriented Programming introduced. Structured programming and Object Design stressed. Java based. Prerequisite: MAT-2410 completed or concurrent; INT-1030 or 1200 or 2130 recommended. 3 class/3 lab hrs.

EGR-1220 COMPUTER SCIENCE II. 4 CREDITS
Introduces theoretical and practical treatment of abstract data types and data structures including lists, strings, stacks, queues, search trees, and hash tables. Objected Oriented Programming methodology and Java classes are used to implement ADT. Software life cycle is studied. Formal topics include introduction to theory of computation including parsing context free grammars, Finite State Machines, expression evaluation and notation, program analysis and verification. Prerequisite: EGR-1210 and MAT-2420 completed or concurrent. 3 class/3 lab hrs.
EGR-2030  CIRCUIT ANALYSIS. 4 CREDITS
This course will introduce the advanced student to the theory of circuit analysis by studying concepts using complex analysis techniques that apply to the electrical engineering, general engineering, and advanced science student alike. Classical analysis techniques of AC/DC circuits using Kirchoff’s laws, mesh and nodal methods, phasor notation, superposition, the application of Thevenin’s and Norton’s theorem, etc. will be examined. Other topics will include transient analysis of first- and second-order circuits, frequency response, polyphase circuits, two-port networks, diodes, transistors, amplifiers, and digital logic. Different tools to aid in the solution of circuits will be performed such as Laplace transforms, transfer functions in the solution of transient analysis, and FFTs for signal analysis. Analysis using different computer simulation techniques will be introduced for a variety of circuits. This introduction will serve as a primer for more advanced courses in the junior and senior year of college. Some design of circuit boards and testing will also be required in this course. Since circuit analysis is a general concept in engineering, this course will examine throughout the course circuit elements (resistors, capacitors, inductors, sources, etc.) and their underlying concepts extending circuit analysis to all the different scientific and engineering fields. Teamwork along with communication skills (oral, written, and graphical) is exercised throughout the course. Prerequisites: MAT-2430, EGR-1010, and PHY-1030 with grades of C or higher; MAT-2460 completed or concurrent.

EGR-2050  SIGNALS AND SYSTEMS: MODELING, COMPUTATION, AND ANALYSIS. 3 CREDITS
Solving high-level applications in engineering, physics, chemistry, and biology require an understanding of modeling at a system level. To fully prepare a student, this course emphasizes system analysis. Crucial to modeling in the modern world is an understanding of the computational modeling as well as the mathematical formulation, therefore a variety of numerical/computational methods will be reviewed in the first part of the course and extended for the purpose of understanding the computational methods required to do modeling in a modern setting. Subjects to be studied include error analysis, roots of non-linear equations, solving systems of linear equations, eigenvalues, eigenvectors, and eigenfunctions, optimization, curve fitting including splines, Fourier analysis, modeling, numerical differentiation and integration, and numerical solving of differential equations including, but not limited to, predictor-corrector methods and finite element analysis. It will be assumed that the student is at least partially familiar with these concepts from previous mathematics class. Extra study may be required for a student lacking these skills. These concepts will be extended into computational methods that are useful in analyzing signals and systems. Topics will include representation of systems and signals, transfer functions, and filters. The relationship between linear systems and both discrete time and continuous time signals and sampling will be explored and used to better understand real world applications. Practical issues of representation and sampling of signals will be explored with particular emphasis to best case solutions. This will be extended into the study and use of a number of filters, in particular digital filters. Topics will include OTFs, DFTs, Laplace transforms, Z-transforms, Radon transforms, and convolutions. Lastly, there will be extensive surveys of a number of advanced subjects including molecular dynamics, percolation, and Monte Carlo simulation methods. Some new mathematical concepts will be introduced in the class. A number of software packages and languages important to engineering are surveyed with primary emphasis on mastering one high-level language such as MATLAB/Octave, C/gcc/g++, or Fortran/gfortran. This course, recognizing the fact that all engineers and scientists need the aforementioned topics, will emphasize a number of case studies in such areas as mechanical, civil, environmental, electrical, aerospace, chemical, and biological engineering, as well as in the sciences. Teamwork along with communication skills (oral, written, and graphical) is exercised throughout the course. Prerequisites: EGR-1010, EGR-1140, and MAT-2420

EGR-2060  THERMODYNAMICS. 3 CREDITS
Principles of macroscopic thermodynamics, focusing on mass transport and energy, heat and work, the properties of pure substances and mixtures, the first and second laws, and reversible cycles. This course extends the thermodynamic properties found in chemistry courses. These concepts universally are those in the ideal gas region which are then completed going from the ideal gas region, to the saturated region, the superheated region, and the compressed liquid region. The course is approached from the engineering point of view (as opposed to a physics point of view), making extensive use of thermodynamic tables. Many of the systems analyzed evolve from one region into another (saturated to super heated, etc.). This course prepares the student for the more complex courses in higher-level civil, mechanical, and aerospace engineering courses. Students will become familiar with the several methods of analyzing various systems undergoing heat transfer processes. Students will be able to analyze systems using the proper mathematical tools and physical laws such as The First Law of Thermodynamics, The First Law for
Control Volumes, The Second Law of Thermodynamics, and The Second Law for Control Volumes. All problems require university-level reading skills, the ability to abstract, analyze systems mathematically, and graphically. Introduces the foundations of the chemistry and physics of materials used in engineering applications. Prerequisites: EGR-1010, MAT-2410, PHY-1030, and CHM-102.

**EGR-2200 ENGINEERING MECHANICS. 3 CREDITS**
Principles of mechanics, including points, bodies, and assemblies in static equilibrium. Areas examined will include trusses, frames, beams, cables, machines, point and distributed loading, and moments of inertia, scalar, and vector analysis. More advanced topics will include deformable bodies and stress, strain, torsion, shear, bending, and fracture. Introduction to kinetics, kinematics, and strength of materials. Prerequisites: MAT-2410 and EGR-1010 with grades of C or higher; PHY-1030 and MAT-2420 completed or concurrent.

**EGR-2210 ADVANCED ENGINEERING MECHANICS. 3 CREDITS**
Kinematics and kinetics of particles, systems, and bodies. Topics include work and energy, impulse and momentum, rigid body motion, and rotating bodies. More advanced topics will include the general theorems for systems of particles and the inertia tensor. Prerequisites: EGR-1010 and EGR-2200 with grades of C or higher.

**EGR-2220 SOLID MECHANICS. 3 CREDITS**
Topics in deformable bodies in axial, torsional, bending, and combined loading. This course extends the introductory strength of materials to intermediate continuum mechanics. Other topics include statically indeterminate and temperature effect analysis; beam, column, and pressure vessel configurations. More advanced topics include structural stability, analysis of one- and two-dimensional structures, inelastic material behavior, and energy methods. Prerequisites: EGR-101 and 2200 with a grade of C or higher.

**EGR-2300 MATERIALS SCIENCE FOR ENGINEERS AND SCIENTISTS. 3 CREDITS**
Introduces the foundations of the chemistry and physics of materials used in engineering applications. Develops the relationship between the atomic and molecular structure of materials and the macroscopic properties and performance of engineering material. In particular, includes thorough discussion of the chemical and physical properties of metals, ceramics, polymers, semiconductors, superconductors, and nanomaterials. Prerequisites: EGR-1010 and CHM-1020 or 2000.

**EGR-2440 DIGITAL LOGIC DESIGN. 3 CREDITS**
Introduction to the theory and practice of logic (digital) circuits in order to foster an understanding of modern electrical circuits. Includes but is not limited to the following subjects: Number systems and base conversions; Boolean algebra, truth tables, logic circuits, logic circuits synthesis and implementation; Karnaugh maps (and other strategies of minimization); sequential logic; flip-flops; registers; counters; processors (simple); programmable logic devices; and characteristics of logic families. Some physical hardware is discussed including limitations. This course emphasizes the elements used to create logic circuits and the software (CAD/EDA) used to design and simulate logic circuits. Teamwork along with communication skills (oral, written, and graphical) is exercised throughout the course. Prerequisites: EGR-1010, MAT-2420, and PHY-1030 with grades of C or higher; PHY-2030 completed or concurrent.

**EGR-2450 ELECTRONIC AND DIGITAL CIRCUIT LABORATORY. 2 CREDITS**
Introduction to basic circuit measurement techniques and laboratory equipment (DMM, analog and digital oscilloscope, power supply, function generator, Digital Logic Analyzers) including the limitations and inaccuracies inherent in any measurement device. Design, construction, and performance measurement of circuits containing passive elements, digital logic circuits, transformers, diodes, and operational amplifiers. In addition, simulation tools to design circuits and to analyze performance will be used extending work performed in digital logic design and circuit analysis. Knowledge of both steady state response and transient response is required for a number of experiments. Extensive analysis will be demonstrated in both laboratory books and laboratory reports. Knowledge of statistical analysis as well as other methods of analysis will be required in this class. Prerequisites: EGR-1010 and 2440 with grade of C or higher; EGR-2030 completed or concurrent. 2 class/3 lab hours.

**EGR-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS**
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
EGR-2990H  HONORS SEMINAR IN ENGINEERING AND SCIENCE (SPECIAL TOPICS). 1 CREDIT
Seminar course that introduces and studies emerging issues in science, engineering, technology, and mathematics. Topics vary by semester. Also offered as BIO-2990H and CHM-2990H. Prerequisites: A 3.00 GPA, completion of a minimum of 18 credits in courses offered by the division of Sciences, Technology, Engineering, and Mathematics, and permission of the instructor or the honors program coordinator.

ENGINEERING TECHNOLOGY (ENT)
Information and Engineering Technology Department Center for Advanced Technology, Room 129 | 301-546-0751

ENT-1600  INTRODUCTION TO CAD WITH AUTOCAD. 3 CREDITS
Techniques for creating, editing and dimensioning two-dimensional CAD drawings. Prerequisite: Drafting background helpful but not required. 2 class/2 lab hours.

ENT-1640  THREE-DIMENSIONAL CAD WITH AUTOCAD. 3 CREDITS
Creation of three-dimensional AutoCAD drawings using wireframe models, surface models and solid models. Prerequisite: ENT-1600. 2 class/2 lab hours.

ENT-1680  REVIT ARCHITECTURE AND BIM. 3 CREDITS
Students will create integrated architectural project models and document their designs with linked two-dimensional drawings using Autodesk’s Revit Architecture. Introduction to the concepts of Building Information Modeling (BIM) and the tools for parametric building design and documentation. Using Revit to produce the schematic design, construction documentation, and design visualization. No prerequisites, but architecture or drafting background helpful. 2 class/2 lab hours.

ENT-1710  CIRCUITS AND MEASUREMENT TECHNIQUES. 3 CREDITS
Analysis of linear electronic circuits and systems. Includes network theorems and hands-on use of electronic test equipment. Prerequisites: MAT-0104 or MAT-1340, completed or concurrent. 1 class/1 recitation/5 lab hours (open-lab format).

ENT-1720  CIRCUIT ANALYSIS AND DESIGN. 3 CREDITS
Analysis and design of reactive circuits, including use of phasor and j-operator techniques. Covers capacitors, inductors, transformers and filters, and use of electronic instrumentation. Prerequisites: ENT-1710; MAT-0104 or MAT-1340 or higher, completed or concurrent. 1 class/1 recitation/5 lab hours (open-lab format).

ENT-1770  INTRODUCTION TO COMPUTING FOR TECHNOLOGY. 3 CREDITS
Introduction to operating systems, such as Linux and Windows; introduction to a high-level programming language, such as Visual Basic; introduction to a graphical and data acquisition language, such as LabVIEW. Prerequisite: ENT-1710 completed or concurrent or permission of department chair. 2 class/3 lab hours.

ENT-1780  ANALOG CIRCUITS. 4 CREDITS
Course has been re-numbered. See ENT-2710.

ENT-1800  DIGITAL CIRCUITS. 4 CREDITS
Course has been re-numbered. See ENT-2740.

ENT-1840  INTRODUCTION TO PERSONAL COMPUTER HARDWARE. 3 CREDITS
See INT-1540 Computer Hardware I: A+ Preparation.

ENT-1850  CIRCUIT EVALUATION AND REPAIR. 2 CREDITS
Reverse engineering from circuit to schematic, troubleshooting techniques, test equipment and assembly techniques. Prerequisite: ENT-1710. 1 class/3 lab hours (open-lab format).

ENT-1880  PERSONAL COMPUTER CONFIGURATION AND ASSEMBLY. 1 CREDIT
See INT-1560 Personal Computer Configuration and Assembly.

ENT-1890  NETWORK HARDWARE. 3 CREDITS
See INT-1550 Introduction to Networks: Network+ Preparation.

ENT-1900  INTRODUCTION TO SPACE TECHNOLOGY. 3 CREDITS
Satellite technology, reliability, and testing. Includes propulsion and launch systems, spacecraft structures, power systems, telemetry, tracking, and command/control/communication operations. Prerequisites: MAT-0104 or MAT-1340 or higher, completed or concurrent or permission of department chair.
ENT-1940  ROUTER TECHNOLOGY I:  
NETWORK FUNDAMENTALS.  4 CREDITS  
See INT-1450 CCNA 1: Network Fundamentals.

ENT-1950  ROUTER TECHNOLOGY II:  
ROUTING PROTOCOLS.  4 CREDITS  
See INT-1460 CCNA 2: Routing Protocols.

ENT-1960  ROUTER TECHNOLOGY III:  
LAN SWITCHING AND WIRELESS.  4 CREDITS  
See INT-2450 CCNA 3: LAN Switching and Wireless.

ENT-1970  ROUTER TECHNOLOGY IV:  
WIDE AREA NETWORKS.  4 CREDITS  
See INT-2460 CCNA 4: Accessing the WAN.

ENT-2200  HIGH-RELIABILITY SOLDERING  
AND FABRICATION.  2 CREDITS  
Hands-on application of industry standards to hand soldering  
of components to connectors and both through-hole and  
surface-mount circuit boards. Includes relevant standards,  
safety and ESD requirements, and inspection techniques.  
Students who successfully complete the course are eligible  
for IPC J-STD 001 certification. Prerequisite: ENT-1710  
or permission of department chair. 1 class/2 lab hours.

ENT-2660  CUSTOMIZING AUTOCAD.  3 CREDITS  
Customizing and maximizing AutoCAD via macros, scripts  
and slides. Students will create their own menus, icons and  
dialog boxes. Introduction to AutoLISP. Prerequisite:  
ENT-1600. 2 class/2 lab hours.

ENT-2680  CAD PORTFOLIO DEVELOPMENT.  3 CREDITS  
Students, working individually or in teams, will create a set  
of CAD drawings using techniques learned in earlier CAD  
courses. Prerequisite: ENT-1600. Individual-study course  
equivalent to 2 class/ 2 lab hours.

ENT-2710  ANALOG CIRCUITS.  4 CREDITS  
Diodes, transistors, simple amplifiers, power supplies,  
operational amplifiers, and integrated circuits. Prerequisites:  
ENT-1710 completed and MAT-1340 or higher, completed  
or concurrent. (Formerly ENT-1780. Students may not  
receive credit for both ENT-1780 and ENT-2710.) 3 class/3 lab hours.

ENT-2730  ELECTRONIC COMMUNICATION.  4 CREDITS  
AM, FM, and SSB circuits using oscillators, modulators,  
audio/RF amplifiers, mixers, and detectors. Prerequisites:  
ENT-1780; and MAT-1340 or higher, completed or  
concurrent. 3 class/3 lab hours.

ENT-2740  DIGITAL CIRCUITS.  4 CREDITS  
Digital circuits from simple gates to complex gate arrays  
(FPGA). Encoders, multiplexers, adders, counters, and flip-  
flops. Number systems, Boolean algebra and combinatorial  
logic. (Formerly ENT-1800. Students may not receive credit  
for both ENT-1800 and ENT-2740.) Prerequisite:  
ENT-1710, completed or concurrent. 3 class/3 lab hours.

ENT-2810  CPU ARCHITECTURE.  4 CREDITS  
Architecture and operation of the central processing unit  
(CPU) using 8- and 16-bit machines. Machine and assembly  
language programming. Prerequisites: ENT-1770 and 1800  
or ENT-2740. 3 class/3 lab hours.

ENT-2830  TELECOMMUNICATIONS.  3 CREDITS  
See INT-2530 Telecommunications.

ENT-2840  COMPUTER REPAIR.  4 CREDITS  
See INT-2540 Computer Hardware II: A+ Preparation.

ENT-2860  ADVANCED PC CONFIGURATION AND REPAIR.  
4 CREDITS  
See INT-2560 Advanced PC Configuration and Repair.

ENT-2900  SYSTEMS ANALYSIS PROJECT.  3 CREDITS  
Working individually or in teams, students will use standard  
design and troubleshooting methodologies to complete a  
major project in an area of their choosing. The project will  
include either design, fabrication, testing of a new system  
and troubleshooting and repair of an existing system, along  
with written reports and oral presentations. Prerequisite:  
ENT-1780 or 1890 or 2810 or 2840. Capstone Course:  
Students must complete a minimum of 46 credits, including  
any prerequisite courses, prior to enrolling in this course. A  
minimum cumulative GPA of 2.00 or higher is also required.  
3 class/3 lab hours.

ENT-2960–2980  COOPERATIVE EDUCATION.  1–3 CREDITS  
A maximum of six credits of cooperative education and  
internship experiences may be applied to any degree. These  
credits may not transfer to all four-year institutions. Contact  
the Career Services Office, Marlboro Hall, Room 2102,  
301-546-0136, for more complete information.
ENGLISH (EGL)

English Department
Marlboro Hall, Room 3078 | 301-546-0561

EGL-0100  INTRODUCTION TO COMPOSITION.  0 CREDITS (4 EH)
Preparation for EGL-1010. Grammar and punctuation, sentence construction, paragraph development, and short essay writing. Prerequisite: Reading proficiency. May be taken concurrently with DVR-0061. (Formerly offered as EGL-1000. Students who have successfully completed EGL-1000 may not take EGL-0100.) Not open to students who have completed EGL-1010. 4 class hours.

EGL-0110  INTRODUCTION TO COMPOSITION (ACCELERATED LEARNING PROGRAM). 0 CREDITS (3 EH)
Workshop course for Accelerated Learning Program (ALP) students co-enrolled in EGL-1011, ALP Composition I. Includes grammar and punctuation, sentence construction, paragraph development, and short essay writing. Does not fulfill English requirements for graduation or transfer. Not open to students who have completed EGL-0100 or EGL-1000 or who have attempted EGL-1010. Corequisites: EGL-1011 required; DVR-0061 recommended.

EGL-1010  COMPOSITION I: EXPOSITORY WRITING. 3 CREDITS
University-parallel freshman English. Fundamentals of effective prose writing, including required essays and a research paper. Prerequisite: Reading proficiency and writing proficiency or C grade or higher in EGL-1000 or ESL-2020 or a grade of D in EGL-1000 with acceptable writing sample. (Honors version available.)

Students must enroll in EGL-1010 within the first 18 credits of their credit-bearing load.

EGL-1011  COMPOSITION I: EXPOSITORY WRITING (ACCELERATED LEARNING PROGRAM). 3 CREDITS
Special version of university-parallel freshman English. Fundamentals of effective prose writing, including required essays and a research paper. Course is offered to Accelerated Learning Program (ALP) students only. Corequisite: EGL-0110.

EGL-1020  COMPOSITION II: WRITING ABOUT LITERATURE. 3 CREDITS
Second semester composition using literature as the subject for discussion and writing. Study various kinds of literature (e.g., drama, poetry, short story). EGL-1100, 1320, or 1340 also will fulfill the Composition II requirement. Prerequisite: EGL-1010 with a grade of C or higher. (Honors version available.)

EGL-1040  MEDIA WRITING. 3 CREDITS
History of mass media; study and writing of news articles, editorials, columns, reviews, radio, and TV scripts. Prerequisite: EGL-1010 (with a grade of C or higher or permission of instructor).

EGL-1100  COMPOSITION II: WRITING ABOUT ISSUES AND IDEAS. 3 CREDITS
Second semester composition. Reading, analyzing, and writing about contemporary issues, demonstrating clear reasoning, and persuasive writing skills. EGL-1020, 1320, or 1340 also will fulfill the Composition II requirement. Prerequisite: EGL-1010 with a grade of C or higher. (Honors version available.)

EGL-1320  COMPOSITION II: WRITING FOR BUSINESS. 3 CREDITS
Second semester composition. Students develop and sharpen critical thinking and writing skills, applying them to materials from business and the professions with an emphasis on evidence-based analysis, evaluation, interpretation, and persuasive presentation. EGL-1020, 1100, or 1340 also will fulfill the Composition II requirement. Prerequisite: EGL-1010 with a grade of C or higher.

EGL-1340  COMPOSITION II: WRITING ABOUT TECHNICAL TOPICS. 3 CREDITS
Second semester composition. Includes preparation of various types of technical, business, government and scientific communications, including resumes; progress, examination, and recommendation reports; proposals; and memoranda. EGL-1020, 1100, or 1320 also will fulfill the Composition II requirement. Prerequisite: EGL-1010 with a grade of C or higher.

EGL-1360  PRINCIPLES OF EDITING. 3 CREDITS
Practice in editing manuscripts and evaluating publication formats. Prerequisite: EGL-1010.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGL-2010</td>
<td>BRITISH LITERATURE FROM THE ANGLO-SAXON PERIOD THROUGH THE 18TH CENTURY.</td>
<td>3</td>
<td>British literature to around 1800 and its historical and cultural background. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2030</td>
<td>BRITISH LITERATURE OF THE 19TH AND 20TH CENTURIES.</td>
<td>3</td>
<td>British literature from the Romantic period to modern times and its historical and cultural background. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)</td>
</tr>
<tr>
<td>EGL-2050</td>
<td>AMERICAN LITERATURE FROM THE BEGINNINGS TO THE LATE 19TH CENTURY.</td>
<td>3</td>
<td>American literature from the colonial period to the Civil War and its social and intellectual background. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)</td>
</tr>
<tr>
<td>EGL-2070</td>
<td>AMERICAN LITERATURE FROM THE LATE 19TH CENTURY TO THE PRESENT.</td>
<td>3</td>
<td>American literature from the Civil War to the present and its social and intellectual background. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2090</td>
<td>WORLD LITERATURE FROM ANCIENT TIMES THROUGH THE MIDDLE AGES.</td>
<td>3</td>
<td>Study of world literary masterpieces from ancient times through the medieval period. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2110</td>
<td>WORLD LITERATURE FROM THE RENAISSANCE TO THE PRESENT.</td>
<td>3</td>
<td>Contemporary world literature in English from England and America and other countries such as Africa, India, France, and the Caribbean. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2120</td>
<td>INTRODUCTION TO AFRICAN LITERATURE.</td>
<td>3</td>
<td>A general introduction to the oral and written literatures of Africa, with emphasis on their formal and aesthetic properties and their sociopolitical, cultural and linguistic significance for contemporary African societies, as well as the literature's place within the canon of literature of the African diaspora. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2130</td>
<td>AFRICAN-AMERICAN LITERATURE PRE-1800 TO 1920.</td>
<td>3</td>
<td>Study of African-American folk tradition and literature from pre-1800s to 1920. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2140</td>
<td>AFRICAN-AMERICAN LITERATURE FROM 1920 TO THE PRESENT.</td>
<td>3</td>
<td>A study of African-American literature from the early 1900s to the present. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2150</td>
<td>INTRODUCTION TO CREATIVE WRITING.</td>
<td>3</td>
<td>Techniques of writing fiction, poetry, and plays with critique of student work. Prerequisite: EGL-1010.</td>
</tr>
<tr>
<td>EGL-2160</td>
<td>ADVANCED CREATIVE WRITING.</td>
<td>3</td>
<td>An intensive, genre-specific workshop which aims to further the philosophies, issues, and possibilities of craft explored in its predecessor, EGL-2150. This course will encourage the serious creative writing student to pursue more sophisticated and complex expression in a selected genre (fiction, poetry, or drama). Although the course will contain reading and analysis of contemporary authors, the focus will be on the creation of original work with constructive feedback from peers considered during the revision process. Prerequisites: EGL-1020 or 1100 or 1320 or 1340; and EGL-2150 or permission of instructor.</td>
</tr>
<tr>
<td>EGL-2170</td>
<td>MAJOR AMERICAN WRITERS.</td>
<td>3</td>
<td>Study of major American writers, selected each semester from among: Poe and Hawthorne, Fitzgerald and Hemingway, Thoreau and Twain, Hughes and Wright, and Toni Morrison and Zora Neale Hurston. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)</td>
</tr>
<tr>
<td>EGL-2210</td>
<td>THE SHAKESPEARE PLAYS.</td>
<td>3</td>
<td>Introduction to the drama of Shakespeare using text and videos. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
</tr>
<tr>
<td>EGL-2230</td>
<td>CHILDREN’S LITERATURE.</td>
<td>3</td>
<td>Study of various genres in children's literature with focus on analysis of the content and quality of works from nursery level through the elementary grades. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.</td>
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</tbody>
</table>

**Legend:**
- **CL** = Computer Literacy Req.
- **E** = English Req.
- **H** = Humanities Req.
- **M** = Math Req.
- **Sc** = Science Req.
- **SS** = Social Science Req.
EGL-2250 YOUNG ADULT LITERATURE. 3 CREDITS
Study of themes in literature marketed to adolescents (12-18) with focus on social and historical context. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)

EGL-2270 APPLIED GRAMMAR. 3 CREDITS
Analysis of grammar, syntax, the history of the English language, and conventional usage. Application of principles through editing texts, constructing teaching units and/or writing research papers. Prerequisites: EGL-1010; and EGL-1020, 1100, 1320, or 1340 with grades of C or higher or permission of the instructor.

EGL-2320 LITERATURE AND FILM. 3 CREDITS
A study of the various relationships between film and literature, examining such themes as self and society as well as relevant cinematic and literary techniques. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Honors version available.)

EGL-2330 MODERN LITERATURE. 3 CREDITS
Major writers, their themes and their views of the modern world. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)

EGL-2370 STUDIES IN BIBLICAL LITERATURE: THE OLD TESTAMENT. 3 CREDITS
Analysis of the Bible as literature, emphasizing major ideas, characters, themes, and literary techniques of the Old Testament. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.

EGL-2390 STUDIES IN BIBLICAL LITERATURE: THE NEW TESTAMENT. 3 CREDITS
Analysis of the Bible as literature, emphasizing major ideas, characters, themes, and literary techniques of the New Testament. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.

EGL-2410 MYTHOLOGY, LEGEND AND FOLKLORE. 3 CREDITS
Overview of myth, legend, and folklore, tracing themes and motifs common to Western and other literatures. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.

EGL-2430 SURVEY OF SCIENCE FICTION. 3 CREDITS
European and American science fiction with emphasis on history, themes, forms, and relationship to Western culture and literature. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)

EGL-2440 SURVEY OF MYSTERY AND DETECTIVE FICTION. 3 CREDITS
Study of the literary genre of mystery and detective fiction, presenting an historical overview of the genre from its 19th century beginnings through the “golden age” of the early 20th century and the “hard boiled” detectives of the 1930s to contemporary writers as well as ethnic, regional, and international authors. Students will read the fiction and also view selected films, analyzing the elements of mystery, its literary roots, and its reflection of cultural contexts and issues. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)

EGL-2500 WOMEN IN LITERATURE. 3 CREDITS
Women’s voices over the centuries expressed autobiographically and in short stories, plays, and poems. Prerequisite: EGL-1020 or 1100 or 1320 or 1340. (Offered every other year.)

EGL-2600 INTRODUCTION TO THE NOVEL. 3 CREDITS
An overview of the history, development, and form of the novel. This course examines novels from a variety of cultures, ranging from the genre’s inception to the present, using introductory literary theory to better understand these works and their historical, cultural, and literary contexts. Prerequisite: EGL-1020 or 1100 or 1320 or 1340.

EGL-2890H HONORS COLLOQUIUM IN ENGLISH. 3 CREDITS
This honors colloquium will examine special topics in the field of English and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

EGL-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
# English as a Second Language (ESL)

Language Studies Department  
Bladen Hall, Room 309 | 301-546-0946

All ESL courses meet for 3 class hours and 1 additional lab hour per week or equivalent. All courses award Equivalent Hours (EHs) upon successful completion.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>EHs</th>
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</thead>
<tbody>
<tr>
<td>ESL-0081</td>
<td>English as a Second Language: Basic Reading Skills</td>
<td>0</td>
<td>(3 EH)</td>
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<tr>
<td></td>
<td>For nonnative speakers of English whose reading</td>
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<td></td>
<td>ability is minimal. Develops vocabulary and basic</td>
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<td></td>
<td>reading comprehension. Placement by exam.</td>
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<td></td>
<td>(Formerly offered as ESL-0811. Students may not</td>
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<td></td>
<td>receive credit for both ESL-0811 and ESL-0081.)</td>
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<tr>
<td>ESL-0100</td>
<td>English as a Second Language: Elementary II.</td>
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<td>(3 EH)</td>
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<td>For nonnative speakers whose English writing and</td>
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<td>speaking skills are limited. Practice in basic</td>
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<td></td>
<td>American English grammar and writing. (Formerly</td>
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<td>ESL-1000. Students who completed ESL-1000 may not</td>
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<td>take ESL-0100.) Prerequisite: ESL-0082 (formerly</td>
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<td>ESL-0821) with a grade of C or higher or placement</td>
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<td>by exam.</td>
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<tr>
<td>ESL-0101</td>
<td>English as a Second Language: Intermediate I.</td>
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<td>(3 EH)</td>
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<td>For nonnative speakers whose writing and speaking</td>
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<td></td>
<td>skills are limited. Practice in low intermediate</td>
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<td></td>
<td>American English grammar, sentence structure, and</td>
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<td>paragraph writing. (Formerly ESL-1010. Students</td>
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<td>who have completed ESL-1010 may not take ESL-0101.)</td>
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<td>Prerequisite: ESL-0100 (formerly ESL-1000) with a</td>
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<td>grade of C or higher or placement by exam.</td>
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<td>ESL-0102</td>
<td>English as a Second Language: Intermediate II.</td>
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<td>(3 EH)</td>
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<td>For nonnative speakers whose writing and speaking</td>
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<td>skills are at the intermediate level. Practice in</td>
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<td>higher intermediate American English grammar,</td>
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<td></td>
<td>sentence structure, and paragraph writing. (Formerly</td>
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<td>ESL-1020. Students who have completed ESL-1020 may</td>
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<td>not take ESL-0102.) Prerequisite: ESL-0101 or 1010</td>
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<td>with a grade of C or higher or placement by exam.</td>
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<td>ESL-0105</td>
<td>English as a Second Language: Intermediate Reading Skills</td>
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<td>(3 EH)</td>
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<td>Acquainting nonnative speakers with American</td>
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<td>culture and idiomatic American English through</td>
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<td>reading and vocabulary development. (Formerly</td>
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<td>offered as ESL-1050. Students who have completed</td>
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<td>ESL-1050 may not take ESL-0105.) Prerequisites:</td>
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<td></td>
<td>ESL-0081 and ESL-0100 (formerly ESL-0811 and ESL-1000) with grades of C or higher or placement by exam.</td>
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<tr>
<td>ESL-0106</td>
<td>English as a Second Language: Advanced Reading</td>
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<td>(3 EH)</td>
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<td>Skills.</td>
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<td>Continuation of ESL-0105. Focus on reading, word</td>
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<td>and study skills, vocabulary expansion, and</td>
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<td>summary writing. (Formerly offered as ESL-1060.</td>
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<td>Students who have completed ESL-1060 may not take</td>
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<td>ESL-0106.) Prerequisites: ESL-0102 or ESL-1020</td>
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<td>with a grade of C or higher and ESL-0105 (formerly ESL-1050) with a grade of C or higher or placement by exam.</td>
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<tr>
<td>ESL-0201</td>
<td>English as a Second Language: Composition.</td>
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<td>(3 EH)</td>
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<td>For nonnative speakers who have a good command of</td>
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<td>English. Focus on paragraph-length compositions and</td>
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<td>complex grammar and sentence structures. (Formerly</td>
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<td></td>
<td>offered as ESL-2010. Students who have completed</td>
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<td>ESL-2010 may not take ESL-0201.) Prerequisite:</td>
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<td>ESL-0102 (formerly ESL-1020) with a grade of C or</td>
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<td>higher or placement by exam.</td>
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<tr>
<td>ESL-0202</td>
<td>English as a Second Language: Advanced Composition</td>
<td>0</td>
<td>(3 EH)</td>
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<td>For nonnative speakers whose writing and speaking</td>
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<td>skills are at a high level. Focus on essay writing</td>
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<td>and advanced grammar. (Formerly offered as ESL-2020. Students who have completed ESL-2020 may not take ESL-0202.) Prerequisite: ESL-0201 (formerly ESL-2010) with a grade of C or higher or placement by exam.</td>
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</tbody>
</table>
FIRE SCIENCE (FSC)

Public Safety and Law Department
Bladen Hall, Room 208 | 301-546-0553

**NOTE:** *Fire Science courses are restricted to employees and volunteers of the Fire/EMS Department.*

Fire Science courses are taught by the Maryland Fire and Rescue Institute (MFRI) at various locations within the state of Maryland. Credits for the MFRI courses will be transferred into the college based upon the recommendation of the American Council of Education (ACE) as published in the current edition of the National Guide to Educational Credit for Training Programs.

**FSC-1010** _Firefighter I_. 3 CREDITS
Provides students with the knowledge and skills to safely and effectively perform basic firefighting operations as part of a firefighting team. *See FSC note, page 302.

**FSC-1020** _Emergency Medical Technician Basic_. 6 CREDITS
Provides students with the necessary knowledge and skills to perform emergency medical care in a pre-hospital environment at the basic life support level. *See FSC note, page 302.

**FSC-1030** _Hazardous Materials Operations_. 1 CREDIT
Provides the student with the knowledge and skills to perform hazardous materials first response. *See FSC note, page 302.

**FSC-1040** _NIMS Incident Command System for the Fire Service_. 1 CREDIT
Provides students with an understanding of the Incident Command System (ICS) and its application to both emergency and non-emergency situations. *See FSC note, page 302.

**FSC-1200** _Principles of Building Construction (Combustible)_. 1 CREDIT
Provides knowledge about the classification system of buildings; the importance of fire resistance for structural support elements; and the risks associated with performing fire-suppression activities inside and around buildings involved in fire. *See FSC note, page 302.

**FSC-1210** _Principles of Building Construction (Non-Combustible)_. 1 CREDIT
Enables students to cite key features of non-combustible or fire-resistant buildings which affect emergency operations. Fire and safety concerns that exist in non-combustible and fire-resistant structures are studied. *See FSC note, page 302.

**FSC-1300** _Emergency Vehicle Operator_. 2 CREDITS
Provides students with information on sensible and safe emergency vehicle driving procedures and collision avoidance and will develop basic skills in the operation of fire and rescue service apparatus. *See FSC note, page 302.

**FSC-2010** _Firefighter II_. 2 CREDITS
Provides students with the knowledge and skills needed to become a firefighter. Prerequisite: FSC-1010. *See FSC note, page 302.

**FSC-2020** _Truck Company Fireground Operations_. 1 CREDIT
Provides students with the knowledge and skills needed to demonstrate forcible entry, search and rescue, ventilation, salvage, overhaul and ladders. *See FSC note, page 302. Prerequisite: FSC-1010.

**FSC-2060** _Firefighter Survival and Rescue_. 1 CREDIT
Provides students with the knowledge and skills needed to prevent death or injury by addressing concerns when operating at structural fires. *See FSC note, page 302. Prerequisite: FSC-1010.

**FSC-2070** _Engine Company Fireground Operations_. 1 CREDIT
Provides students with the fundamental principles of engine company operations and how they can be integrated during fireground operations. *See FSC note, page 302. Prerequisite: FSC-1010.

**FSC-2910–2930** _Fire Science Internships_. 1–3 CREDITS
Provides students with cooperative education and internship experiences to broaden their educational experience. A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
FORENSIC SCIENCE (FOS)
Public Safety and Law Department
Bladen Hall, Room 208 | 301-546-0553

FOS-2500  FORENSIC SCIENCE.  3 CREDITS
A survey of the scientific discipline directed at the recognition, identification, and evaluation of physical evidence through application of the natural sciences to criminal investigation. Emphasis is placed on the role of the forensic scientist. Prerequisite: Reading proficiency.

FOS-2510  FORENSIC ASPECTS OF DEATH INVESTIGATION.  3 CREDITS
A study of the medicolegal examination of death scenes by the medical examiner and other death investigators. Emphasis is on autopsy procedures, post-mortem changes, unidentified remains, injuries, and investigative techniques. Prerequisites: FOS-2500. (Online version offered only in the fall.)

FOS-2520  FORENSIC ASPECTS OF DRUG IDENTIFICATION AND ABUSE.  3 CREDITS
An understanding of the nature of poisoning, the pharmacokinetics of drug interaction on brain neurochemistry, and other organ systems in the human body. This course is an overview of how the human cravings for illicit and licit drugs affect human behavior. Prerequisite: FOS-2500. (Online sections offered spring only.)

FOS-2530  FIRE AND ARSON INVESTIGATION.  3 CREDITS
A study of the practical approach to basic fire scene investigation. Emphasis is on fire behavior, building construction, the scientific method, origin and cause determination, and legal aspects of the fire scene. Prerequisite: FOS-2500.

FOS-2540  PHYSICAL IDENTIFIERS (FINGERPRINTING TECHNIQUES).  3 CREDITS
An examination and application of the science of fingerprints, using current methods of detection, development, and preservation. This course also will examine basic fingerprint identification theory, processing techniques, and the fingerprint identification role within forensic science. Prerequisite: FOS-2500.

FOS-2550  PHOTOGRAPHY IN THE FORENSIC SCIENCES.  3 CREDITS
An introduction to the use of digital photography in the documentation of evidence associated with crime scenes. Prerequisite: FOS-2500.

FOS-2570  FIREARMS AND TOOL MARKS IDENTIFICATION.  3 CREDITS
A study of firearms identification, ballistics, shot and powder patterns, cartridge casings, and tool marks. Prerequisite: FOS-2500.

FOS-2580  BASIC ACCIDENT INVESTIGATION.  3 CREDITS
A survey of the principles and techniques involved in traffic crash investigation. Emphasis is on the recognition, interpretation, documentation and collection of evidence, including skid, yaw, roadway and vehicle marks, and damages. Prerequisite: FOS-2500.

FOS-2590  CRIME SCENE INVESTIGATION.  3 CREDITS
A practical hands-on approach to evidence identification, documentation, collection, and handling from the crime scene to the crime laboratory to presentation in court. A fixed lens 35 mm camera or digital camera is required by the student. Prerequisite: FOS-2500.

FOS-2600  COMPUTER FORENSICS I.  3 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 170)
A survey of computer forensic analysis and tools used to investigate crimes. Emphasis is on evidence analysis and data retrieval from computer hardware and software applications. Students will have hands-on laboratory experience using various computer forensic tools, evidence preservation techniques, and documentation. Prerequisites: INT-1010; FOS-2500 recommended.

FOS-2610  COMPUTER FORENSICS II.  3 CREDITS
An examination of advanced concepts in computer forensic analysis and computer-related crime, including data hiding techniques, encryption, electronic password cracking, and password recovery tools. Prerequisite: FOS-2600. 2 class/2 lab hours.

FOS-2910–2930  FOS INTERNSHIP.  1–3 CREDITS
The internship is a practicum with measurable learning objectives designed to broaden the educational experience. Students are assigned to appropriate governmental and private agencies. 3–9 practicum hours. A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
FRENCH (FRN)
Language Studies Department
Bladen Hall, Room 309 | 301-546-0946
All French courses meet for 3 class hours and 1 additional lab hour per week or equivalent.

FRN-1010   FRENCH FOR BEGINNERS. 3 CREDITS  H
Introduction to the language (reading, writing, understanding, and speaking) and to the culture of France and Francophone countries. Note: Not for native speakers.

FRN-1020   FRENCH FOR ADVANCED BEGINNERS. 3 CREDITS  H
Continued development of French language skills and cross-cultural understanding begun in FRN-1010. Prerequisite: FRN-1010 or two years of high school French or equivalent. Note: Not for native speakers.

FRN-2010   INTERMEDIATE FRENCH I. 3 CREDITS  H
Intermediate study of the French language and Francophone culture, building on the foundation of French for Beginners. Prerequisite: FRN-1020 or three years of high school French or equivalent. Note: Native/heritage speakers welcome.

FRN-2020   INTERMEDIATE FRENCH II. 3 CREDITS  H
Continuation of FRN-2010 with emphasis on the culture of France and other Francophone countries. Prerequisite: FRN-2010 or four years of high school French or equivalent. Note: Native/heritage speakers welcome.

FRN-2040   ADVANCED CONVERSATION. 3 CREDITS  H
Advanced preparation for students who wish to develop fluency and confidence in speaking French. Prerequisite: FRN-2010 or four years of high school French or equivalent. Note: Native/heritage speakers welcome.

GEOGRAPHY (GEO)
History, Political Science, Geography, and Anthropology Department | Marlboro Hall, Room 2018 | 301-546-0527

GEO-1000   INTRODUCTION TO GEOGRAPHY AS A SOCIAL SCIENCE. 3 CREDITS  SS
The impact of human behavior on cultural and natural landscapes from a social science perspective. Prerequisite: Reading proficiency.

GEO-1010   PHYSICAL GEOGRAPHY. 3 CREDITS  SS SC
Study of nature's environment including the basic systems of the atmosphere, hydrosphere and lithosphere and how they interact. Prerequisite: Reading proficiency.

GEO-1020   PHYSICAL GEOGRAPHY LABORATORY. 1 CREDIT  SC
Laboratory work complementary to theories and principles of GEO-1010. Climate, the biosphere and the earth's landforms. Prerequisites: GEO-1010 completed or concurrent and reading proficiency. 3 lab hours.

GEO-1070   PHYSICAL AND HISTORICAL GEOGRAPHY OF MARYLAND. 3 CREDITS
Historical and natural evolution of landscapes in Maryland. Field trips to Baltimore and other Maryland locations. Prerequisite: Reading proficiency. (Offered fall only.)

GEO-1090   WORLD REGIONAL GEOGRAPHY. 3 CREDITS
Nations as components of regional environments. Politics, economics and ecology in the developed and developing worlds. Prerequisite: Reading proficiency. (Offered spring only.)

HEALTH EDUCATION (HLE)
Health, Nutrition, and Physical Education Department
Novak Field House, Room 104 | 301-546-0504

HLE-1150   PERSONAL AND COMMUNITY HEALTH. 3 CREDITS
Provides health information related to personal and community health. Topics include but are not limited to: wellness, relationships and communications, sexuality and reproduction, substance abuse, physical fitness and nutrition, diseases, conventional and complementary medicine, and death and dying.

HLE-2000   APPLICATION OF CONCEPTS FOR FITNESS AND WELLNESS. 3 CREDITS
Includes the study and practical application of principles for optimizing wellness, including health, fitness, nutrition, weight control and stress management. Individual fitness, nutrition and wellness will be evaluated and implemented through the use of labs, self-assessment tools, weight training, and cardiorespiratory activities.

HLE-2010   HEALTH ISSUES IN A CULTURALLY DIVERSE SOCIETY. 3 CREDITS
Provides health information related to issues and problems affecting ethnic minorities in the United States (African American, Hispanic American, Asian American, and Native American). Focus areas will include traditional health care, disparities in treatment, barriers in health care, culture and nutrition, leading causes of death, healing and religion, current health problems. Prerequisite: Reading proficiency.
HLE-2130  FIRST AID—RESPONDING TO EMERGENCIES/CPR FPR.  3 CREDITS
Studies emergency care theory and skills including all CPR skills and AED (defibrillation) instruction for the professional rescuer. Two Red Cross certifications awarded: First Aid—Responding to Emergencies and CPR for the Professional Rescuer.

HLE-2150  INTRODUCTION TO CHILD HEALTH.  3 CREDITS
Examines health, safety and nutritional needs of children between birth and eight years old and the role of the early childhood educator in promoting children’s health. Includes developing activities designed to teach children healthy living habits. Red Cross Community First Aid and Safety and CPR certificates awarded. Prerequisite: TED-1200 (formerly ECE-1510).

HLE-2210  HUMAN SEXUALITY.  3 CREDITS
Comprehensive study of the biological, physiological, developmental, and social aspects of human sexuality from a multicultural perspective. Topics include male/female sexual physiology and response cycles, gender issues, contraception and abortion, conception/fertility issues, relationship sexuality, sexually transmitted infections, sexual dysfunction and treatment, and sexual harassment and coercion issues.

HLE-2250  HEALTH ISSUES FOR WOMEN.  3 CREDITS
Examines a broad range of health issues that are either unique to women or of special importance to women, including eating disorders, abuse and rape, self-esteem related to appearance, and reproductive technology.

HLE-2300  INTEGRATED HEALTH AND PHYSICAL EDUCATION.  3 CREDITS
This course focuses on foundational knowledge about the interrelationship of behavior and health. It incorporates the concepts of movement to learning development of motor skills and concepts of leading a healthy lifestyle.

HLE-2890H  HONORS COLLOQUIUM IN HEALTH EDUCATION.  3 CREDITS
This honors colloquium will examine special topics in the field of health education and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor/coordinator.

HEALTH INFORMATION MANAGEMENT (HIM)
Allied Health and Nursing
Center for Health Studies, Room 1402 | 301-546-0733
NOTE: *Courses in the HIM program must be taken in a prescribed sequence.
HIM courses are offered once per year in the fall or spring except for HIM-1530 which is offered every semester. A grade of C or higher must be maintained in all core program and required science courses. Program prerequisites require a C or higher.

HIM-1500  INTRODUCTION TO HEALTH INFORMATION AND HEALTH CARE SYSTEMS.  4 CREDITS
(Formerly Fundamentals of Health Information) An introduction to the health information departments, health care systems, and professional associations of the health information and informatics. Various aspects of information storage and retrieval systems, regulatory standards, the electronic health record, legal aspects, privacy requirements, and documentation requirements will be examined. Students will learn important skills that include presenting data as information, writing policies, and preparing professional reports. Prerequisites to program admission: BIO-2050, EGL-1010, INT-1010, and MAT-1120 or higher with a grade of C or higher. 3 class/3 lab hours. (Offered fall only.)

HIM-1505  HEALTH CARE DELIVERY SYSTEMS.  2 CREDITS
This course is designed to introduce the student to health information requirements in settings other than acute care. Content will include accreditation, regulations, and reimbursement mechanisms as they relate to facilities such as hospice, home health, skilled and intermediate care, ambulatory care, mental health centers, dialysis, rehabilitation, managed care, correctional, dental, veterinary, and consulting. (Formerly offered as HIM-2550 Health Information in Alternative Care. Students may not receive credit for both HIM-2550 and HIM-1505.) Prerequisites: HIM-1500 and 1520 with a grade of C or higher. (Offered spring only.)

HIM-1510  STATISTICS FOR HEALTH PROFESSIONALS.  2 CREDITS
This course focuses on health data and vital statistics reporting. Prerequisite: Completion of HIM-1500 and 1530 with a grade of C or higher; HIM-1505, 1540, 1550, and 1581 concurrent or permission of program director. *See HIM note, page 305.

*See HIM note, page 305.
HIM-1530  MEDICAL TERMINOLOGY.  3 CREDITS
This course is an introduction to the language of medicine through usage, pronunciation, spelling, and plural formation as they relate to body systems with emphasis on the study of word roots, prefixes, suffixes, eponyms, standard abbreviations, and medical case studies. The use of medical terms in context and terminology related to cancer medicine, nuclear medicine, and pharmacology will be included.

HIM-1540  HEALTH INFORMATION PRACTICUM I.  1 CREDIT
(Formerly Directed Clinical Practice I) This is the first clinical affiliation in the Health Information Management Program. The course is a supervised student practice in a simulated laboratory and clinical practice settings; emphasis on storage and retrieval systems, MPI, incomplete documentation policies and procedures, release of protected health information (PHR), and the associated computer application. Prerequisite: HIM-1500 and 1530 with a grade of C or higher. 4 clinical hours. (Offered spring only.) *See HIM note, page 305.

HIM-1550  HUMAN DISEASE PROCESSES AND PHARMACOLOGY FOR HEALTH CARE PROFESSIONALS.  4 CREDITS
(Formerly Disease Processes) Basic concepts of health and disease: causes, etiology, incidence and treatment of illnesses. Includes pharmacology as it relates to disease processes. Prerequisites: HIM-1500 and 1530 with a grade of C or higher. (Offered spring only.) *See HIM note, page 305.

HIM-1581  PRINCIPLES AND APPLICATIONS OF ICD CODING.  4 CREDITS
In-depth focus on diagnosis and procedural coding using the International Classification of Diseases (ICD) as modified for use in the United States. UHDDS data collection requirements for financial reporting and statistical research. (Formerly offered as HIM-1580. Students may not receive credit for both HIM-1580 and HIM-1581.) Prerequisites: HIM-1500 and 1530 with a grade of C or higher. 3 class/3 lab hours. (Offered spring only.) *See HIM note, page 305.

HIM-1600  PRINCIPLES AND APPLICATIONS OF CPT.  2 CREDITS
This course is designed to introduce the student to the HCPCS/CPT coding systems. Special emphasis is on the application of the ambulatory care environment and the physician's office for data retrieval and reimbursement. Prerequisites: HIM-1505, 1510, 1550, and 1581 with a grade of C or higher. 2 class/1 lab hours. (Offered summer only.) *See HIM note, page 305.

HIM-1800  INTRODUCTION TO MEDICAL TERMS FOR HEALTH PROFESSIONALS.  1 CREDIT
Introduces basic medical terminology to students preparing to enter a health care profession. Students will learn word elements, build on and properly use medical language, thus enhancing their communication skills in the didactic and clinical settings. (HIM majors may not take this course. This course cannot substitute for HIM-1530.) Formerly MHE-2000. Students cannot receive credit for both MHE-2000 and HIM-1800. Note: This is a self-directed course using CD-ROM and e-mail communication.

HIM-1940  PHYSICIAN OFFICE BILLING.  2 CREDITS
Designed for physician office staff and others in health care who are interested in physician billing. Course includes diagnosis/procedure coding principles and computer applications. This course cannot be substituted for a course in the Health Information Management curriculum. Students should have basic computer skills and strong medical terminology background.

HIM-2511  HEALTH CARE QUALITY IMPROVEMENT AND DATA ANALYSIS.  3 CREDITS
A study of the basic knowledge of the principles of quality assessment and improvement. Study provides a basis for developing skills in collecting and analyzing data. Topics include health care evaluation systems as well as the role of medical record professionals in quality assessment and improvement, clinical critical pathways and case management, utilization management, risk. Students will also be introduced to a study of database theory, analysis, and design. Prerequisites: HIM-1600 with a grade of C or higher; HIM-2600 and 2520 concurrent. *See HIM note, page 305.

HIM-2520  PRINCIPLES AND APPLICATIONS OF ICD CODING II.  3 CREDITS
Provides students with advance training in medical coding with emphasis on inpatient and ambulatory coding in various health care facilities. Students will utilize coding technology and resources to audit and review data collected. Prerequisites: HIM-1600 with grade of C or higher; HIM-2600 and 2511 concurrent. *See HIM note, page 305.
**HIM-2530  HEALTH INFORMATION MANAGEMENT. 4 CREDITS**
Focusses on the management of a health information department and information technology. Prerequisites: HIM-2600, 2511, 2520, and 2560 with a grade of C or higher. Capstone Course: Students must complete a minimum of 50 credits, including any prerequisite courses, prior to enrolling in this course. A cumulative GPA of 2.00 or higher is also required. *See HIM note, page 305.

**HIM-2560  HEALTH INFORMATION PRACTICUM II. 1 CREDIT**
(Formerly Directed Clinical Practice II) Supervised student practice in simulated laboratory and clinical practice settings; emphasis on inpatient and ambulatory coding with ICD 10-CM/PCS and HCPCS/CPT coding systems using encoder and grouper software, data abstracting, and data retrieval from indices. Prerequisite: HIM-1600 with grade of C or higher. 12 clinical hours. (Offered fall only.) *See HIM note, page 305.

**HIM-2580  HEALTH INFORMATION PRACTICUM III. 1 CREDIT**
(Formerly Directed Clinical Practice III) Supervised student professional practice in a clinical or virtual practice setting; emphasis on data access, data analysis, data presentation, quality performance improvement, and specialized care facilities. Prerequisites: HIM-2510 and 2560; HIM-2530 and 2550 concurrent. 8 clinical hours. (Offered spring only.)

**HIM-2590  RHIT EXAM PREP. 1 CREDIT**
Provides students with preparation for the Registered Health Information Technician (RHIT) exam. Students will register for the exam during this course. Prerequisites: HIM-2600, 2511, and 2560 with a grade of C or higher; HIM-2530 and 2580 concurrent.

**HIM-2600  MEDICAL REIMBURSEMENT AND BILLING. 3 CREDITS**
Focus is on reimbursement and payment systems in acute and ambulatory care settings. Emphasis will be placed on prospective payment systems, third-party payers, medical claims processing and regulatory compliance issues. Prerequisite: HIM-1600 with a grade of C or higher. 3 class/1 lab hours. (Offered fall only.) *See HIM note, page 305.

**HISTORY (HST)**
History, Political Science, Geography, and Anthropology Department | Marlboro Hall, Room 1018 | 301-546-0527

**HST-1310  ANCIENT AND MEDIEVAL HISTORY. 3 CREDITS**
SS
The history of ancient Egyptian, Near Eastern, Greek and Roman civilizations, and of the Middle Ages. Prerequisite: Reading proficiency. (Honors version available.)

**HST-1320  MODERN HISTORY. 3 CREDITS**
SS
A survey of the history of Europe and of Europe’s encounters with the rest of the world from the Renaissance to the First World War, focusing on those political, social, economic, and cultural developments that shaped and defined the modern Western world. Prerequisite: Reading proficiency. (Honors version available.)

**HST-1370  THE WORLD IN THE TWENTIETH CENTURY. 3 CREDITS**
SS
A comparative survey of the major developments in Europe, Asia, Africa, and the Americas during the past century that have led to the formation of the contemporary world. Prerequisite: Reading proficiency.

**HST-1410  HISTORY OF THE UNITED STATES I. 3 CREDITS**
SS
American history from the colonial period through the Civil War. Prerequisite: Reading proficiency. (Honors version available.)

**HST-1430  HISTORY OF THE UNITED STATES II. 3 CREDITS**
SS
American history from the Civil War to the present. Prerequisite: Reading proficiency. (Honors version available.)

**HST-1510  HISTORY OF AFRICAN AMERICANS I. 3 CREDITS**
SS
Surveys African American history from the beginnings of the Trans-Atlantic slave trade in the colonial era through the end of Reconstruction in 1877. It examines the social, political, cultural, military, economic, and scientific triumphs and tribulations that African Americans experienced. Particular emphasis is placed on describing and analyzing black Americans’ resistance to inequality, the development of their institutions, the expansion of slavery, and the Civil War and Reconstruction. Prerequisite: Reading proficiency.
HST-1530  HISTORY OF AFRICAN AMERICANS II.  3 CREDITS  SS
Surveys African American history from the end of Reconstruction through the present. Particular emphasis is placed on describing and analyzing black Americans' efforts to counteract the inequalities their communities experienced as a result of Jim Crow laws and racial disenfranchisement. It examines the Great Migration, the Harlem and Chicago Renaissances, Post-World War II integrationist and black Nationalists movements, and black political activism. Prerequisite: Reading proficiency.

HST-2100  HISTORY OF WOMEN IN AMERICA.  3 CREDITS
An introduction to the study of American women from colonial times to the present. Prerequisite: Reading proficiency.

HST-2160  THE MODERN MIDDLE EAST.  3 CREDITS  SS
A survey of Middle Eastern history from the late 18th century to the present with emphasis on the 20th century. The areas covered include present day Iraq, Iran, Syria, Jordan, Lebanon, Israel, Turkey, Egypt, and the Arabian peninsula. Prerequisite: Reading proficiency. (Offered spring only.)

HST-2230  HISTORY OF LATIN AMERICA AND THE CARIBBEAN.  3 CREDITS  SS
Latin American history from independence to the present, with an overview of the colonial period. Prerequisite: Reading proficiency.

HST-2300  HISTORY OF AMERICAN FOREIGN POLICY.  3 CREDITS
Foreign policy of the U.S. from 1775 to the present; America as a world power in the 20th century. Prerequisite: Reading proficiency. (Offered fall only.)

HST-2330  HISTORY OF THE AMERICAN CIVIL WAR.  3 CREDITS
The American Civil War and its origins, emphasizing the major military campaigns and the impact of the war on American society and culture. Prerequisite: Reading proficiency. (Offered fall only.)

HST-2350  HISTORY OF MARYLAND.  3 CREDITS
The political, economic, social, and cultural history of Maryland from the colonial era to the present. Prerequisite: Reading proficiency. (Offered spring only.)

HST-2380  HISTORY OF PRINCE GEORGE'S COUNTY.  3 CREDITS
The socio-cultural and political history of the county from its inception in the 1600s to the present. Emphasis from the Civil War forward. Prerequisite: Reading proficiency and permission of department chair.

HST-2470  AFRICAN HISTORY.  3 CREDITS  SS
Survey of African history from early cultures through European colonialism to modern African nationhood. Prerequisite: Reading proficiency.

HST-2890H  HONORS COLLOQUIUM IN HISTORY.  3 CREDITS
This honors colloquium will examine special topics in the field of history and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor/coordinator.

HST-2970  HISTORIC SITES INTERNSHIP EXPERIENCE.  3 CREDITS
Unpaid, supervised experience at historic sites in the state of Maryland. Provides an opportunity to assist in the creation of a project, bibliography, or exhibit that expresses major themes in American history. Prerequisite: HST-1410 or 1430, HST-1510 or 1530 and permission of department chair.

HST-2910–2930  COOPERATIVE EDUCATION.  1-3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
HONORS
Honors Program | Marlboro Hall, Room 1087 | 301-546-0433
Honors colloquia are interdisciplinary seminars which focus on varying subjects from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the Honors program coordinator or the instructor. Honors versions of standard courses are also offered. These colloquia are offered in most academic departments with the course number 2890 (e.g. EGL-2890H, POS-2890H).

HORTICULTURE (HRT)
Biological Sciences Department
Chesapeake Hall, Room 100 | 301-546-0420

HRT-1080  INTRODUCTION TO TURFGRASS MANAGEMENT. 3 CREDITS
Identification and maintenance requirements of turfgrass species. Topics include growth and development, environmental and cultural practices (including fertilization), disease control, and pesticide use. 2 class/2 lab hours.

HRT-1160  WOODY ORNAMENTAL PLANTS I. 3 CREDITS
Identification, landscape use, and maintenance of trees, shrubs, vines, and ground covers commonly found in the mid-Atlantic region. Focus is on evergreens and spring flowering trees. 2 class/2 lab hours.

HRT-1170  WOODY ORNAMENTAL PLANTS II. 3 CREDITS
A continuation of HRT-1160 with a focus on deciduous trees. 2 class/2 lab hours.

HRT-1200  PLANT DISEASES AND PESTS. 3 CREDITS
Insect pests and diseases of ornamental plants, including causes, diagnosis, and control procedures. 2 class/2 lab hours.

HRT-1300  BASIC PESTICIDE USE AND SAFETY. 3 CREDITS
Fundamentals of basic pesticide use and safety as it relates to the production and maintenance of ornamental horticulture crops. This represents one of two courses required by the Maryland Department of Agriculture (MDA) and the District of Columbia for individuals applying to take the Commercial Pesticide Applicator or Consultant Exam.

HOSPITALITY SERVICES MANAGEMENT (HSM)
Hospitality, Tourism, and Culinary Arts Department
Chesapeake Hall, Room 100 | 301-546-3090

HSM-1510  INTRODUCTION TO THE HOSPITALITY INDUSTRY. 3 CREDITS
Overview of hotel, food service, and travel/tourism management. Special projects, readings, guest lectures, and field trips are included.

HSM-1515  LEADERSHIP AND INTERPERSONAL DYNAMICS IN THE HOSPITALITY INDUSTRY. 3 CREDITS
In the hospitality industry, quality service is a key component of every company’s success. Regardless of the venue, be it a cruise ship, a restaurant, a professional meeting, or convention, the hospitality industry is in the business of creating positive human experiences. Learning and managing oneself and maintaining positive team relationships at work is crucial. This course will focus on understanding how each of our personalities affects the way we interact with others, as well as on methods for increasing our effectiveness at working within groups, both as a leader and as a participant.

HSM-1520  FUNDAMENTALS OF MEETING, CONVENTION, AND EVENT MANAGEMENT. 3 CREDITS
Addresses basic meeting, convention, and event management concepts and practical knowledge to assist in planning meetings like a seasoned professional. The course provides important checklists and resources, and introduces the vocabulary necessary to succeed in meeting planning. It is a must for anyone planning on entering the meeting management or event management profession.

HSM-1550  FOOD SERVICE MANAGER TRAINING AND CERTIFICATION IN SANITATION. 1 CREDIT
Provides an overview of the principles of food microbiology, important food-borne diseases, standards that are enforced by food service regulatory agencies, and applied measures for the prevention of food-borne diseases and other microbiological problems. It also describes the Hazard Analysis Critical Control Point (HACCP) system and includes ServSafe® certification. Note: Only Culinary Arts students must take CUL-1100 concurrently.
HSM-1560 CATERING AND BANQUET OPERATIONS. 3 CREDITS
Provides essential information needed to operate a successful catering business and manage various catering and banquet operations. Both on- and off-premises catering will be covered in addition to business planning, menu development, pricing, purchasing, preparation, service details, sanitation, and management. 2 class/3 lab hours.

HSM-1580 USING TECHNOLOGY IN THE HOSPITALITY INDUSTRY. 3 CREDITS
Provides an introduction to the principles of basic computer applications as used in both the hospitality industry and the college community. Lecture includes applications in property management, reservation systems, and social networking. Hands-on lab applications for operational use in the industry will include point-of-sale systems, food service control systems, entrepreneurship applications, and revenue and cost management, as well as extensive hands-on training in software critical to success while in college and as future managers, including Microsoft Excel, Word, PowerPoint, Outlook, and Access. (Formerly offered as HSM-2110. Students may not receive credit for both HSM-2110 and HSM-1580.)

HSM-1621 HOTEL OPERATIONS MANAGEMENT. 3 CREDITS
Provides an overview of hotel and lodging operations, with a focus on rooms division management, including housekeeping and hotel front office management. The course includes principles of revenue management, interdepartmental coordination, and issues facing today's lodging industry. (Formerly HSM-1620. Students may not receive credit for both HSM-1620 and HSM-1621.) Prerequisite: HSM-1510 or permission of instructor.

HSM-1630 FOOD SERVICE OPERATIONS. 3 CREDITS
A study of the principles required for successful food service management. Includes hands-on food preparation, quality control, and management techniques. Prerequisite: Reading proficiency.

HSM-1635 FOOD TRUCK MANAGEMENT. 1 CREDIT
A study of the special considerations of managing a food truck including start-up budgets, equipment and design, licensing and regulations, menu development, and marketing.

HSM-1640 SPECIAL EVENT MANAGEMENT. 3 CREDITS
Addresses major trends and successful business practices in Event Management such as event design basics, room set-up, event flow, entertainment, food and beverage options, and communication. Students will be armed with tools to improve their effectiveness, success, and profitability as event managers. Prerequisite: HSM-1520.

HSM-1645 BUDGET DEVELOPMENT FOR SPECIAL EVENTS. 2 CREDITS
Examines the steps in developing a special event budget. Students learn techniques for projecting and managing budgets including per-person methodology and break-even analysis. This course will also provide students with an understanding of re-forecasting and comparing budgeted amounts to post-event actuals. Prerequisite: HSM-1640 with a grade of C or higher.

HSM-1650 PLANNING FOR ASSOCIATION EVENTS. 1 CREDIT
Exploration of the role and scope of the meetings and events departments in associations and affinity organizations. Topics include annual conventions, mission and values of the organizations, organizational structures, board governance, typical association divisions, member services, and employment opportunities. Prerequisite: Reading proficiency.

HSM-1660 PLANNING FOR SMERF EVENTS. 1 CREDIT
Provides guidance to those who plan and support SMERF events, which are events attended by persons who are members of social, military, educational, religious, or fraternal organizations. Topics to be covered are the unique event needs that SMERF groups present, venues, budgeting, vendor relationships, and seasonality of this target audience. Prerequisite: Reading proficiency.

HSM-1670 TRADE SHOWS AND EXPOSITIONS. 1 CREDIT
Studies management and sales of trade shows and expositions. Addresses the basic structure of exhibit halls, attendee and exhibitor needs, purposes and types of shows, facilities, promotion, trends, and employment opportunities. Prerequisite: Reading proficiency.

HSM-1675 EVENT LIGHTING, PRODUCTION AND DESIGN. 1 CREDIT
An introduction to the fundamentals of the technical design of events, including the application of audio visual production, scenery, lighting and props, and their importance in events. This will also cover the conceptualization of design disciplines of production and design in various event venues.
HSM-1680  EVENT SPONSORSHIP.  1 CREDIT
Offers students basic insights into funding streams for events. Addresses formulating ticket and registration costs, reviews sponsorship policy and strategy formulation for fund-raising events. Topics include researching and attracting a portfolio of sponsors, working with sponsors as partners to leverage their investment, and evaluate event outcomes. Prerequisite: Reading proficiency.

HSM-1700  PASTRY MAKING.  1 CREDIT
Demonstration of tortes, tarts, and puff pastry. 1 class/2 lab hours for 5 weeks.

HSM-1710  SIMPLIFIED GOURMET COOKING.  1 CREDIT
Regional American and classical European entrees are presented with time-saving techniques. 1 class/2 lab hours for 5 weeks.

HSM-1730  NORTHERN ITALIAN CUISINE.  1 CREDIT
Seafood, veal, and poultry with specialty pastas and sauces will be prepared in the classical northern Italian tradition. 1 class/2 lab hours for 5 weeks.

HSM-1740  BED AND BREAKFASTS.  3 CREDITS
Introduction to bed and breakfast operations. Topics include concept development, capital requirements, marketing, legal issues, and operations and procedures.

HSM-1750  WINES AND SPIRITS—MIXOLOGY AND SERVICE.  3 CREDITS
A structured course of study designed to help students understand major wine types, major wine growing regions, the history of wine growing, grape and wine production techniques, and the economic impact of wine industry. All students must be 21 years of age on the first day of class.

HSM-1760  INTERNATIONAL CUISINES.  1 CREDIT
Dishes from Greek and Middle Eastern cuisines. Entrees, desserts, and breads will be featured. 1 class/2 lab hours for 5 weeks.

HSM-1770  CHEF’S TOUR OF FOUR COUNTRIES.  1 CREDIT
Become a world traveler as Chef Ernie teaches the tastes and techniques of French, North African, Spanish, and Southern Italian cooking. 1 class/2 lab hours.

HSM-1780  INTRODUCTION TO CHINESE COOKING.  1 CREDIT
Experience the various types of cooking methods and delightful spices in a taste-travel through the four provinces of China. 1 class/ 2 lab hours.

HSM-1790  AUTHENTIC INDIAN COOKING.  1 CREDIT
Become an expert on the tastes and techniques of Indian cooking in this course offering authentic Indian cuisine. 1 class/2 lab hours.

HSM-1800  PROFESSIONAL CAKE DECORATING.  1 CREDIT
Learn professional techniques to transform cakes and pastries into works of art. The course includes basic flowers and borders, string work, figure piping, and techniques for creating special occasion and seasonal cakes. 1 class/2 lab hours for 5 weeks.

HSM-1810  INTRODUCTION TO TRAVEL AND TOURISM.  3 CREDITS
Reviews the historical development of travel and tourism and how tourism planning and regulations affect the travel and hospitality industry. Discusses the impact of hospitality and tourism from an environmental and social perspective. Analyzes why people travel and how they select vacation destinations, and explains techniques to market and promote tourism businesses. Prerequisites: Reading Proficiency and HSM-1510.

HSM-1815  CASINO MANAGEMENT.  3 CREDITS
Provides an overview of casino management and casino hotel operations. Topics include gaming trends, casino hotel organizational structure, government regulations, consumer behavior, marketing strategies, economic impact, social and cultural concerns, and casino games.

HSM-1820  ADVANCED PROFESSIONAL CAKE DECORATING.  1 CREDIT
An intensive course covering the design, construction, and decoration of various types of wedding cakes. 1 class/2 lab hours for 5 weeks.

HSM-1825  DESTINATION MARKETING.  1 CREDIT
Explores the variety of organizations and strategies utilized to market a destination. Topics include the structures of destination marketing organizations, an understanding of their funding sources, and a study of their operations. This course will also provide an understanding of the various careers in destination marketing organizations.

HSM-1830  HORS D’OEUVRES AND APPETIZERS.  1 CREDIT
Catering and home entertaining take on new excitement. Learn from the experts how to create visually spectacular taste sensations. 1 class/ 2 lab hours for 5 weeks.
HSM-1840  CLASSY SOUTHERN COOKING.  1 CREDIT
Old-time southern favorites are updated for modern palates. Sensational spices and unusual condiments are combined with a contemporary flair. 1 class/2 lab hours for 5 weeks.

HSM-1850  FISH AND SHELLFISH PREPARATION.  1 CREDIT
This course will identify a large assortment of fish and shellfish as well as how to properly purchase and store them, prepare them for cooking, and cook them by a variety of dry heat and moist heat methods. Seasonal and regional dishes will be highlighted when available.

HSM-1860  WEDDINGS AND SOCIAL EVENTS.  1 CREDIT
A short course addressing business planning for the wedding planner as well as wedding and social event styles and themes. Also covered are religious and cultural needs, vendors and contracts, stationery, attire, reception logistics, cakes and desserts, music, photography, decorations, favors, pre- and post-celebrations, and expanding business revenue streams.

HSM-1870  CHEF SELECTION, SERIES I.  1 CREDIT
Designed to introduce culinary students to a series of different culinary topics. It provides the student with the basic knowledge of the foods, food styles, and methods used to prepare food. Sanitation, nutrition, and food costing will be introduced. Includes preparation and techniques, recipe development, tools and equipment requirements, and presentation skills. This course includes appetizers, salads, pasta, and desserts.

HSM-1880  CHEF SELECTION, SERIES II.  1 CREDIT
Designed to introduce culinary students to a series of different culinary topics. It provides the student with the basic knowledge of the foods, food styles, and methods used to prepare food. Sanitation, nutrition, and food costing will be introduced. Includes preparation and techniques, recipe development, tools and equipment requirements, and presentation skills. This course includes entrees, sauces, and soups.

HSM-1890  CHEF SELECTION, SERIES III.  1 CREDIT
Designed to introduce culinary students to a series of different culinary topics. It provides the student with the basic knowledge of the foods, food styles, and methods used to prepare food. Sanitation, nutrition, and food costing will be introduced. Includes preparation and techniques, recipe development, tools and equipment requirements, and presentation skills. This course includes vegetables, potatoes, fish, and shellfish.

HSM-1900  INTRODUCTION TO MUSEUM STUDIES.  3 CREDITS
This course will cover the general history of museums and explore the range of museum types. It will examine the role of museums within cultural tourism and their impact on local economies. Career opportunities as well as the challenges that museums face will be discussed. Prerequisite: Reading proficiency.

HSM-2020  FOOD AND BEVERAGE PURCHASING AND COST CONTROL.  3 CREDITS
Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operating budget, cost-volume-profit analysis, income and cost control, menu pricing, theft prevention, labor cost control and computer applications. (Honors version available.)

HSM-2040  BAR AND BEVERAGE MANAGEMENT.  3 CREDITS
Provides students with the practical knowledge needed to manage a bar or beverage operation. The course presents principles and theories to support and reinforce the practical aspects.

HSM-2045  INTRODUCTION TO BARTENDING.  3 CREDITS
Explores the range of major products within the beverage industry, including juices, iced teas, Amaretto/Kahlua and other cream drinks, Crème de Cacao, and Shots and Shooters. It will also cover the details of beverage control, bar management, inventory, cocktail bar, opening/setup/closing procedures, fruit cutting, bartender responsibilities, cash register training and charge, state laws, customer service, alcohol awareness, and private party set up, as well as liquor, cordial, beer, and wine lectures. The course requires 19.5 hours of hands-on lab training as well as T.I.P.S. National Certification.

HSM-2050  HUMAN RESOURCES MANAGEMENT AND TRAINING FOR HOSPITALITY AND TOURISM.  3 CREDITS
Provides a thorough look at training by addressing how to assess and analyze the training needs of new and established operations; look upon training and development as an investment; use training tools and techniques; train with technology; measure and evaluate training; and use different training techniques when training employees, supervisors, and managers.
HSM-2071 MANAGING STAFF AND SERVICE IN HOSPITALITY. 3 CREDITS
Introduces students to the fundamentals of supervision of personnel in the hospitality industry and to how those fundamentals lead to great customer service. Students will learn to view both the staff and patrons as internal and external “customers,” focusing on the triangular communicative relationship between employers, employees, and guests. (Formerly HSM-2070. Students may not receive credit for both HSM-2070 and HSM-2071.)

HSM-2100 MANAGING SERVICE IN FOOD AND BEVERAGE OPERATIONS. 3 CREDITS
Explores the principles, concepts, and systems of professional table service. Topics include dining room organization and management of dining room staff with the goal of providing excellent guest services while maintaining a financially sustainable business.

HSM-2530 HOSPITALITY SALES AND MARKETING. 3 CREDITS
Marketing principles for the hospitality industry. Marketing planning, property feasibility study, sales team functions, advertising, and public relations.

HSM-2550 UNDERSTANDING HOSPITALITY LAW. 3 CREDITS
Provides an awareness of the rights and responsibilities that the law grants to or imposes upon a hotel keeper and illustrates the possible consequences of failure to satisfy legal obligations.

HSM-2640 HOTEL SECURITY AND LOSS PREVENTION. 1 CREDIT
Explains the issues surrounding the need for individualized security programs, examines a wide variety of security and safety equipment and procedures, discusses guest protection and internal security for asset protection, explores risk management and loss prevention issues, and outlines OSHA regulations that apply to lodging properties.

HSM-2700 SUSTAINABILITY IN HOSPITALITY. 3 CREDITS
A multi-dimensional course reviewing the impact of the hospitality industry on the environment. Students will be introduced to how sustainability trends in hotels, food and beverage operations, and the event planning industry can have not only a positive impact on the environment but meet Corporate Social Responsibility (CSR) needs for a company or organization while spending less. Prerequisite: Reading proficiency.

HSM-2750 HOSPITALITY ENTREPRENEURSHIP. 3 CREDITS
Examines the creative, risk taking, and pragmatic nature of small business ownership within the hospitality field. Students will explore the process of transforming a creative idea into a commercially viable business venture. Topics include creating a business plan, estimating start-up costs, marketing for small business start-ups, and special issues for hospitality ventures.

HSM-2760 HOSPITALITY SEMINAR. 3 CREDITS
Offers comprehensive coverage of topics taught in hospitality services management and an array of realistic operational and managerial situations and cases students are bound to find on being hired by hospitality companies. Through case study investigation, group discussion, and internship and practical learning experiences, students will engage in critical thinking and problem solving to shift from scholastic mode into supervisory and managerial roles in the hospitality industry. Capstone Course: Students must complete a minimum of 46 credits prior to enrolling in this course. A minimum cumulative GPA is also required.

HSM-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS
Capstone Courses: Students must complete a minimum of 46 credits prior to enrolling in this course. A cumulative GPA of 2.00 or higher is also required. A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
HUMAN SERVICES (HUS)
Psychological and Sociological Studies Department
Marlboro Hall, Room 2054 | 301-546-0525

HUS-1010 INTRODUCTION TO HUMAN SERVICES. 3 CREDITS
Provides an introduction to the field of human services as preparation for advanced study or employment in the human services profession. Beginning with historical developments, the course will present issues encountered in the field as well as techniques and resources for intervention. An overview of human services ethics, research, model programs, and policies will be covered. In addition, various specializations including youth care, rehabilitation, criminal justice, and elder care services will be discussed. Students will develop fundamental active listening and response skills.

HUS-1020 PROFESSIONAL ETHICS IN HUMAN SERVICES. 1 CREDIT
Prepares students for ethical decision making in the human services field. Includes the study of selected professional codes of ethics. Case studies will be used for additional practices and integration.

HUS-2010 COUNSELING, ASSESSMENT, AND BEHAVIOR MODIFICATION TECHNIQUES. 3 CREDITS
Provides an integrated approach to basic counseling with application to the field of human services. Students will have the opportunity to develop basic counseling skills, utilize theories and/or practice, as well as explore and take action on case application in both professional and paraprofessional settings. Specific behavioral modification principles and techniques will be discussed. Prerequisite: HUS-1010.

HUS-2020 GROUP AND FAMILY COUNSELING SKILLS. 3 CREDITS
An introduction to basic skills of group and family counseling for use with both mentally ill and chemically dependent clients. The course will emphasize patterns of group dynamics, particularly as they relate to therapeutic group process. Traditional views of pathology will be examined with a focus on the role of family dynamics in the formation, maintenance, and treatment of mental illness and chemical dependency. Students will think diagnostically about families utilizing theories and techniques that are relevant to working with families and groups. Prerequisite: HUS-1010.

HUS-2200 DEVELOPMENTAL DISABILITIES. 3 CREDITS
Identifies the characteristics and causes of various developmental disabilities. Topics include a history of service provision, human rights, legislation and litigation, advocacy, and accessing support services. Upon completion, students should be able to demonstrate an understanding of current and historical developmental disability definitions and support systems used throughout the life span. Prerequisite: HUS-1010.

HUS-2300 CHEMICAL DEPENDENCY COUNSELING. 3 CREDITS
Provides students with a foundation in the theories, causes, characteristics and treatment of chemical dependency and addictive disorders. Students will explore social, family and mental health issues related to chemical dependency. Various treatment approaches, including 12-step programs and group counseling, will be examined. Practice in basic assessment and counseling skills will be an integral part of the course. Prerequisites: HUS-1010 and PSY-2120.

HUS-2400 THERAPEUTIC RECREATION. 3 CREDITS
Explores various adaptive physical and recreational services designed to meet the needs of special populations in hospitals, recreation or rehabilitation centers, schools, etc. Emphasis is placed on understanding the individual in terms of age, psychological and physical development, handicaps, and their needs for recreation. The class will facilitate recreational activities at local agencies and venues, which may include a swim program. Community involvement, lesson planning and periodic tests are required. Prerequisite: HUS-1010.

HUS-2810 HUMAN SERVICES INTERNSHIP I. 3 CREDITS
Provides supervised, practical experience in a human service setting. In addition to the minimum of 90 hours of field experience, participation in a weekly seminar is required. Topics covered will include professionalism in the workplace, establishing performance and learning goals, and benefitting from supervision. Students must meet with the program coordinator to discuss appropriate internship placement before registering for the course. Prerequisite: HUS-2010 and permission of the program coordinator.

HUS-2820 HUMAN SERVICES INTERNSHIP II. 3 CREDITS
Provides an opportunity for a second supervised, practical experience in a human service setting. In addition to the minimum of 90 hours of field experience, participation in a weekly seminar is required. Topics covered will build on those covered in HUS-2810 and will include establishing performance and learning goals, recognizing and applying professional ethics, and career planning. Students must meet with the program coordinator to discuss appropriate internship placement before registering for the course. Prerequisite: HUS-2010 and permission of the program coordinator.
HUMANITIES (HUM)

History, Political Science, Geography, and Anthropology Department | Marlboro Hall, Room 3078 | 301-546-0561

HUM-1980 ARTISTIC AND CULTURAL EXPERIENCES. 1 CREDIT
Students earn college credit by independently attending plays, concerts, lectures, films, dance performances, and art exhibits. One orientation session required. Course may be repeated for a maximum of two credit hours. (Honors version available.)

INFORMATION TECHNOLOGY (INT)

Information and Engineering Technology Department
Center for Advanced Technology, Room 129 | 301-546-0752

INT-1010 INTRODUCTION TO INFORMATION TECHNOLOGY. 3 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 120)
A survey course in evolving computer technology and its relevance to individuals and society. The societal issues stressed include: privacy, security, ergonomics, accessibility, intellectual property, pervasive computing, as well as other timely topics such as new laws impacting computer use. Becoming fluent in necessary technology applications is integrated into the course and may include such topics as word processing, use of e-mail and Web browsers, spreadsheets, course management systems, and others. Students possessing skills and knowledge in this area may receive credit for INT-1010 by passing the department's challenge exam (currently the three Internet and Computing Core Certification tests, known as IC3). Students who are already IC3 certified may receive credit for INT-1010 by presenting their certificate to the transfer evaluator in the Office of Admissions and Records. (Formerly offered as CIS-1010. Students may not receive credit for both CIS-1010 and INT-1010.) Prerequisite: Reading proficiency. 3 class hours with open lab. (Honors version available.)

Students must enroll in INT-1010 within the first 18 credits of college-level courses unless their program of study is exempted from the INT requirement.

Note: Students with little or no computer experience should consider taking INT-1000 Using a Personal Computer, to get the necessary prerequisite skills. All students take a screening test during their first class in INT-1010. Results are used to advise students regarding which course to take.

INT-1111 PROGRAMMING LOGIC AND DESIGN. 3 CREDITS
Introduction to computer programming concepts with emphasis on structured program logic and design. Procedural and object oriented concepts are introduced. Design tools such as pseudo-code and flowcharting are covered. Students are introduced to several software packages that may be used to develop flowcharts and pseudo-code. This course does not teach a particular programming language but rather emphasizes problem solving techniques that can be applied to programming in any language. Examples from various programming languages may be used to illustrate concepts. (Formerly offered as CIS-1111. Students may not receive credit for both CIS-1111 and INT-1111.) Prerequisite: INT-1010 with grade of C or higher. 2 lecture/2 lab hours.
INT-1150  INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS.  4 CREDITS
Course has been re-numbered. See INT-2150.

INT-1210  COMPUTER SCIENCE I.  4 CREDITS
Course has been re-numbered. See INT-2210.

INT-1220  COMPUTER SCIENCE II.  4 CREDITS
Course has been re-numbered. See INT-2220.

INT-1290  BEGINNING MICROSOFT WORD.  1 CREDIT
An introductory course that emphasizes the effective use of word processing features to effectively create, format, and manage documents. Together with INT-1390, this course prepares students for the Microsoft Office certification exam in Word 2010. (Formerly offered as CIS-1290. Students may not receive credit for both CIS-1290 and INT-1290.) Prerequisite: Reading proficiency. 1 class/1 lab hour.

INT-1370  INTRODUCTION TO HELP DESK TOOLS AND PROCEDURES.  3 CREDITS
Students will learn the basic help desk concepts, procedures and tools with emphasis on the team-oriented technical support environment. Students explore the features of software used in a support environment to collect knowledge, schedule and track repairs, such as call logging and reporting. The proper use of telephone-based technology also is presented. (Formerly offered as CIS-1370. Students may not receive credit for both CIS-1370 and INT-1370.) Prerequisite: INT-1010 with grade of C or higher. 2 class/2 lab hours.

INT-1390  INTERMEDIATE MICROSOFT WORD.  1 CREDIT
An introductory course that emphasizes the effective use of word processing features to effectively create, format, and manage documents, using graphics and hyperlinks. Includes coverage of document tracking and referencing. Together with INT-1290, this course prepares students for the Microsoft Office certification exam in Word 2010. (Formerly offered as CIS-1390. Students may not receive credit for both CIS-1390 and INT-1390.) Prerequisite: Reading proficiency. 1 class/1 lab hour.

INT-1450  CCNA 1: INTRODUCTION TO CISCO NETWORKING.  4 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 150)
First of a four-course sequence preparing for Cisco CCNA Routing and Switching certification. OSI and TCP/IP models; Ethernet concepts and operation; TCP and UDP protocols and ports; network design using IPv4 and IPv6 subnets; router and switch configuration. This class charges an additional $32 per credit hour Information Technology Certification fee. (Formerly offered as ENT-1940. Students may not receive credit for both ENT-1940 and INT-1450.) 3 class/2 lab hours.

INT-1460  CCNA 2: ROUTING AND SWITCHING ESSENTIALS.  4 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 151)
Second of a four-course sequence. Covers switch configuration and security, virtual LANs (VLANs) and trunking; single-area OSPF routing; static routes; access control lists; Dynamic Host Configuration Protocol (DHCP); Network Address Translation (NAT). Students successfully completing this course should be prepared for Cisco CCENT certification. This course charges an additional $32 per credit hour Information Technology Certification fee. (Formerly offered as ENT-1950. Students may not receive credit for both ENT-1950 and INT-1460.) Prerequisite: INT-1450 (formerly ENT-1940) with a grade of C or higher. 3 class/2 lab hours.

INT-1540  COMPUTER HARDWARE I: A+ PREPARATION.  3 CREDITS
Hands-on assembly, configuration, and upgrades for IBM-class personal computers. Basic hardware and software fault isolation techniques. First of a two-course sequence providing preparation for the CompTIA A+ computer repair certification. (Formerly offered as ENT-1840. Students may not receive credit for both ENT-1840 and INT-1540.) 2 class/2 lab hours.

INT-1550  INTRODUCTION TO NETWORKS: NETWORK+ PREPARATION.  3 CREDITS
An overview of local area networks including installation and operation of a computer network from the physical as well as the software and user perspective. Students will design, build and test working networks and associated wiring. Emphasis will be placed on LAN hardware, software, standards and protocols. Helps prepare students for the CompTIA Network+ certification exam. (Replaces both CIS-1400 and ENT-1890. Credit may not be earned for both INT-1550 and CIS-1400 or for both ENT-1890 and INT-1550. Students who need either CIS-1400 or ENT-1890 should take INT-1550 instead.) Prerequisite: INT-1010 with grade of C or higher, or permission of department chair. 2 class/2 lab hours.
INT-1620  COMPUTER SECURITY: SECURITY+ PREPARATION.  3 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 160)
This introduction to security systems will give students a solid foundation of understanding in different computer security concepts, functions, and applications. The course maps to CompTIA Security+ exam objectives which cover general security concepts, communication security, infrastructure security, basics of cryptography, and operations/organizational security. Upon completion of this course, students will be prepared to take CompTIA’s vendor neutral Security+ exam. Security+ certification is globally recognized as equivalent to an entry-level security specialist. The Security+ exam is accepted as one of the security certification exams by Microsoft toward its MCSA and MCSE certification. (Formerly offered as CIS-1620. Students may not receive credit for both CIS-1620 and INT-1620.) Prerequisite: INT-1010 with grade of C or higher; INT-1700 recommended. 2 class/2 lab hours.

INT-1680  ETHICAL HACKING AND NETWORK DEFENSE I.  3 CREDITS
First of two courses that provide an understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will review TCP/IP concepts and learn updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Students will practice footprinting, scanning, enumeration, exploitation, and social engineering. This first of two courses is designed for those interested in systems and application security or who want to take the EC-Council’s Certified Ethical Hacker (CEH) exam (312-50). Prerequisites: INT-1700 and INT-1620 with grades of C or higher. 2 lecture/2 lab hours.

INT-1700  UNDERSTANDING OPERATING SYSTEMS.  3 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 130)
Provides basic working knowledge of computer operating system commands, functions and management using the DOS, Windows, Linux and Unix operating environments. Topics include: memory management, process management, device management, file management, and operating system tools. introduces command structures and explores operations using GUI and Command Line Interfaces. Students will demonstrate proficiency by completing various task-related laboratory assignments. Focus also is on the main topics covered in the A+ certification examination. (Formerly offered as CIS-1700. Students may not receive credit for both CIS-1700 and INT-1700.) Prerequisites: Reading proficiency; INT-1010 or ENT-1770 completed or concurrent with grade of C or higher. 2 class/2 lab hours.

INT-1800  INTERNET AND WEB TECHNOLOGY.  3 CREDITS
Provides an overview of the Internet and the major applications, relevant standards and protocols, and ethical issues associated with it. Students will learn to develop a website using storyboarding techniques and HTML and manage it via FTP. Hands-on projects that utilize new and emerging communication technologies will be explored. (Formerly offered as CIS-1800. Students may not receive credit for both CIS-1800 and INT-1800.) Prerequisite: Reading proficiency; INT-1010 recommended. 2 class/2 lab hours.

INT-1850  CLIENT-SIDE WEB DEVELOPMENT.  3 CREDITS
As a continuation of INT-1800, HTML/XHTML and Cascading Style Sheets (CSS) are used to design and create Web pages. These Web pages are further enhanced by including advanced elements of HTML, such as forms and frames and by adding multi-media elements, such as audio, video, and animation. JavaScript is further used to make HTML documents interactive. Other topics discussed include the Document Object Model, the object-based features of JavaScript, and use of a debugger to debug JavaScript code. (Formerly CIS-1850. Students may not receive credit for both CIS-1850 and INT-1850.) Prerequisite: INT-1800 with grade of C or higher. 2 class/2 lab hours.

INT-1860  SERVER-SIDE WEB DEVELOPMENT.  3 CREDITS
Course has been re-numbered. See INT-2850.

INT-1901  EMERGING TECHNOLOGIES I.  1 CREDIT
Focuses on the development and application of emerging technologies (past, present, and future). Students will develop products, to include (but not limited to): multimedia websites, animation, video, and computer programs using leading-edge technologies such as the Adobe Creative Suite. Technologies utilized will vary as new ones emerge. During the course each student will develop a broad understanding of emerging technologies in general, while developing their knowledge/skill in the use of one particular technology. Learning will be accomplished through assigned reading, class discussion, and hands-on use of state of the art technology. (Formerly offered as CIS-1901. Students may not receive credit for both CIS-1901 and INT-1901.) Prerequisite: INT-1010 with grade of C or higher. 1 class/1 lab hour.
INT-2030  Programming in Visual Basic. 4 CREDITS
Students program in Visual Basic to create business applications featuring a graphical interface. Such programs incorporate multiple simultaneous windows, graphical images, pull-down menus, dialog boxes, and similar objects, as well as event-driven modules and procedures. Emphasizes structured, object-oriented programming. Focuses on advanced graphical controls (built-ins, third party, and user-designed) data access using the ADO.NET technology, Web-based applications, error trapping and handling. (Formerly offered as CIS-2030. Students may not receive credit for both CIS-2030 and INT-2030.) Prerequisite: INT-1111 with grade of C or higher. 3 lecture/3 lab hours.

INT-2081  Introduction to Oracle. 4 CREDITS
Introduces students to data server technology. Covers the concepts of relational and object-oriented databases, with hands-on data modeling and normalization. Introduces the powerful SQL language and uses SQL to teach hands-on concepts in Data Definition Language (DDL) and Data Manipulation Language (DML). (Formerly offered as CIS-2081. Students may not receive credit for both CIS-2081 and INT-2081.) Prerequisite: INT-1111 with grade of C or higher. 3 lecture/3 lab.

INT-2082  Advanced Oracle and PL/SQL. 4 CREDITS
Builds on INT-2081, continuing with Oracle database operations and introducing programming with PL/SQL. Includes advanced programming using procedures and functions, parameter passing, event driven programming. Includes an introduction to object oriented concepts in database development as well as a discussion of the capabilities of SQL vs. PL/SQL. (Formerly offered as CIS-2082. Students may not receive credit for both CIS-2082 and INT-2082.) Prerequisite: INT-2081 with grade of C or higher. 3 class/3 lab hours.

INT-2130  Programming in C++. 4 CREDITS
Using the C++ language, the course incorporates the concepts covered in INT-1111 and applies them specifically to the C++ programming language. Topics include basic C++ control structures syntax, functions, arrays, pointers, and classes/objects. (Formerly offered as CIS-2130. Students may not receive credit for both CIS-2130 and INT-2130.) Prerequisite: INT-1111 with grade of C or higher. 3 class/3 lab hours.

INT-2140  Problem Solving with Spreadsheets. 3 CREDITS
Comprehensive course in use of electronic spreadsheet software to solve problems, analyze financial and other data, set up and evaluate scenarios, and effectively present data from spreadsheets in charts. Prerequisite: INT-1010 with a grade of C or higher. 2 class/2 lab hours.

INT-2150  Database Management Systems: MS Access. 3 CREDITS
Introduction to database management techniques using Microsoft Access. Includes fundamentals of database design and programming with emphasis on relational file processing. (Formerly offered as INT-1150. Students may not receive credit for both INT-1150 and INT-2150.) Prerequisite: INT-1010 with grade of C or higher, INT-1330 recommended. 2 class/2 lab hours.

INT-2200  Programming in Java. 4 CREDITS
Comprehensive course in Java incorporating the concepts covered in CIS-1111 and applying them specifically to the Java programming language. Topics include object-oriented programming (classes/objects), control structures, methods, arrays, polymorphism, inheritance, recursion, exception handling, graphical user interfaces, file input/output. (Formerly offered as CIS-2200. Students may not receive credit for both CIS-2200 and INT-2200.) Prerequisite: INT-1111 with grade of C or higher. 3 class/3 lab hours.

INT-2210  Computer Science I. 4 CREDITS
Computer science concepts studied from theoretical and practical viewpoints, including program analysis and life cycle design, formal syntax of the Java or other object oriented language, program control structures, subprograms, algorithm design and analysis, recursion, computer architecture, number systems and data storage. Applications studied include numerical methods, creating libraries, character processing, simulating logic circuits, sorting, searching, set operations and use of matrices. Object oriented programming introduced. Structured programming and object design stressed. Java based. (Formerly offered as INT-1210. Students may not receive credit for both INT-1210 and INT-2210.) Prerequisites: MAT-2410 and INT-1111 with grades of C or higher. 3 class/3 lab hours.
INT-2220  COMPUTER SCIENCE II.  4 CREDITS
Introduces theoretical and practical treatment of abstract data types and data structures including lists, strings, stacks, queues, search trees and hash tables. Object oriented programming methodology and Java classes are used to implement ADT. Software life cycle is studied. Formal topics include introduction to theory of computation including parsing context-free grammars, Finite State Machines, expression evaluation and notation, program analysis and verification. (Formerly offered as INT-1220. Students may not receive credit for both INT-1220 and INT-2220.) Prerequisites: INT-2210 (formerly INT-1210), MAT-2420 with grades of C or higher. 3 class/ 3 lab hours.

INT-2300  WINDOWS DESKTOP CLIENT.  3 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 232)
Students will learn basic Windows Desktop Operating System administration and configuration. Topics covered include installing/configuring Windows Desktop Operating System, troubleshooting, network protocol implementation, and basic system security. This course charges an additional $32 per credit hour Information Technology Certification fee. (Formerly offered as CIS-2300. Students may not receive credit for both CIS-2300 and INT-2300.) Prerequisite: INT-1010 with grade of C or higher or permission of department chair. 2 class/2 lab hours.

INT-2310  WINDOWS SERVER ADMINISTRATION.  3 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 230)
Students will learn Windows Server administration and configuration. Topics covered include installing Windows Server operating system, configuring network services, managing systems access, troubleshooting devices, monitoring and optimizing system performance, implementation of virtual private networks (VPNs) and system security configuration. This course charges an additional $32 per credit hour Information Technology Certification fee. (Formerly offered as CIS-2310. Students may not receive credit for both CIS-2310 and INT-2310.) Prerequisite: INT-1010 with a grade of C or higher. Recommended: INT-2300 or familiarity with the Windows Desktop Client. 2 class/ 2 lab hours.

INT-2312  WINDOWS ACTIVE DIRECTORY.  3 CREDITS
Students will analyze business and technical requirements, identifying current and future enterprise needs to design an Active Directory service infrastructure. Students will learn the fundamental skills necessary to install and administer an Active Directory service infrastructure. Topics covered include assessing the impact of Active Directory services on existing systems and processes, creating and implementing a forest model and schema modification plan, defining and naming domains, managing Active Directory users, computer and group accounts, designing site topology, and developing the structure of organizational units. (This course replaces both CIS-2330 and CIS-2350. Students may not earn credit for INT-2312 if they have completed either CIS-2330 or CIS-2350. Students who need one of those courses should take INT-2312 instead.) Prerequisite: INT-2310 with grade of C or higher. 2 class/2 lab hours.

INT-2314  WINDOWS NETWORK INFRASTRUCTURE.  3 CREDITS
Students will analyze business and technical requirements, identifying current and future enterprise needs for supporting a Windows platform Network Infrastructure. Students will learn the fundamental skills necessary to design, install and administer Windows Internet Name Service (WINS), Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP), Public Key Infrastructure (PKI), Fault tolerance (IPSec) and Network Address Translation (NAT) services. Topics covered include the design and implementation of network infrastructure services and assessing the impact of network infrastructure services on existing systems and networks. (This course replaces both CIS-2320 and CIS-2370. Students may not earn credit for INT-2314 if they have completed either CIS-2320 or CIS-2370. Students who need one of these courses should take INT-2314 instead.) Prerequisite: INT-2310 with grade of C or higher. 2 class/2 lab hours.

INT-2316  MICROSOFT EXCHANGE CONFIGURATION.  3 CREDITS
Students will analyze business and technical requirements, identifying current and future enterprise needs to design and implement Microsoft Messaging service infrastructure. Students will learn the fundamental skills necessary to install and configure Microsoft Exchange Messaging service. Topics covered include assessing the impact of Microsoft Exchange Messaging service on existing Enterprise systems and processes, installing and configuring Microsoft Exchange Messaging Service. Recommended prerequisite: INT-2312 with grade of C or higher. 2 class/2 lab hours.
INT-2318  MICROSOFT EXCHANGE DESIGN AND DEPLOYMENT.  3 CREDITS
Students will analyze business and technical requirements, identifying current and future enterprise needs to design and implement Microsoft Messaging service infrastructure. Students will learn the fundamental skills necessary to design, deploy, and maintain Microsoft Exchange Messaging service. Topics covered include assessing the impact of Microsoft Exchange Messaging service on existing Enterprise systems and processes, designing, deploying and maintaining Microsoft Exchange Messaging Service. Recommended prerequisite: INT-2316 with grade of C or higher. 2 class/2 lab hours.

INT-2450  CCNA 3: SCALING NETWORKS.  4 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 250)
Third of a four-course sequence. Covers design, configuration, and troubleshooting of large networks. Spanning Tree Protocol (STP) and EtherChannel; routing for large IPv4 and IPv6 networks using EIGRP and multi-area OSPF. This course charges an additional $32 per credit hour Information Technology Certification fee. (Formerly offered as ENT-1960. Students may not receive credit for both ENT-1960 and INT-2450.) Prerequisite: INT-1460 (formerly ENT-1950) with grade of C or higher. 3 class/2 lab hours.

INT-2460  CCNA 4: CONNECTING NETWORKS.  4 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 251)
Final course in a four-course sequence. Includes the design, configuration, and troubleshooting of wide area networks using PPP and frame relay protocols; configuring Virtual Private Networks (VPNs); implementing network monitoring. Students successfully completing this course should be prepared for Cisco CCNA Routing and Switching certification. This course charges an additional $32 per credit hour Information Technology Certification fee. (Formerly offered as ENT-1970. Students may not receive credit for both ENT-1970 and INT-2460.) Prerequisite: INT-1460 (formerly ENT-1960) with grade of C or higher. 3 class/2 lab hours.

INT-2470  CCNA SECURITY.  4 CREDITS
Configuration, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices. Authentication/Authorization/Accounting (AAA), firewalls, encryption, Intrusion prevention systems (IPS), Virtual Private Networks (VPNs). Prerequisite: INT-1460. 3 class/2 lab hours.

INT-2530  TELECOMMUNICATIONS.  3 CREDITS
Operation of the U.S. telecommunications system, including the local loop, cellular system, the SS7 long distance system, and Voice Over IP. Coding, compression, error-checking, and security systems used to ensure quality and performance. (Formerly offered as ENT-2830. Students may not receive credit for both ENT-2830 and INT-2530.) Prerequisite: INT-1010 with grade of C or higher or permission of the department.

INT-2540  COMPUTER HARDWARE II: A+ PREPARATION.  4 CREDITS
Diagnosis and troubleshooting techniques for personal computers, with emphasis on setup, configuration conflicts, and operating system issues. Second course of a sequence that helps prepare students for the CompTIA A+ certification. (Formerly offered as ENT-2840. Students may not receive credit for both ENT-2840 and INT-2540.) Prerequisite: INT-1540 (formerly ENT-1840) with grade of C or higher. 3 class/3 lab hours.

INT-2680  ETHICAL HACKING AND NETWORK DEFENSE II.  3 CREDITS
The second of two courses that provide an understanding of how to effectively protect computer networks. Students will continue to learn the tools and penetration testing methodologies used by ethical hackers. Students will practice post-exploitation, cryptography, hardening OSs, and wireless security. Also covered is a thorough update of federal and state computer crime laws, as well as changes in penalties for illegal computer hacking. This second of two courses is designed for those interested in systems and application security or who want to take the EC-Council’s Certified Ethical Hacker (CEH) Exam (312-50). Prerequisite: INT-1680. 2 class/2 lab hours.

INT-2690  CISSP PREPARATION.  3 CREDITS
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 270)
Explores and reviews the domains of the CISSP Common Body of Knowledge (CBK) and can be used as partial preparation for the Certified Information Systems Security Professional (CISSP) Exam or the Systems Security Certified Practitioner (SSCP) Exam as administered by the International Information Systems Security Certification Consortium (ISC)². (Formerly offered as CIS-2690. Students may not receive credit for both CIS-2690 and INT-2690.) Prerequisite: INT-1620 with grade of C or higher. 2 class/2 lab hours.
INT-2721  LINUX OPERATING SYSTEM I.  3 CREDITS  
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 140)  
An introduction to the Linux operating system and is mapped to the CompTIA+ LX0-101 exam. This course covers command-line basics, managing software packages, configuring hardware, and file management concepts in a Linux environment. (Formerly offered as INT-2720. Students may not receive credit for both INT-2720 and INT-2721.) Prerequisites: INT-1010, 1111; INT-1700 recommended. 2 class/2 lab hours.

INT-2761  LINUX OPERATING SYSTEM II.  3 CREDITS  
(CYBERWATCH COMMON COURSE EQUIVALENT: CW 141)  
A continuation of INT-2721, mapped to the CompTIA Linux+ LX0-102 exam. This course covers system administration tasks such as X Windows configuration, basic network configuration, writing scripts to automate tasks, managing e-mail, database management, and security management. (Formerly offered as INT-2760. Students may not receive credit for both INT-2760 and INT-2761.) Prerequisite: INT-2721 (formerly INT-2720) or equivalent with a grade of C or higher. 2 class/2 lab hours.

INT-2810  CCNP: IP ROUTING.  3 CREDITS  
Students will learn how to plan, configure, and verify the implementation of complex enterprise LAN and WAN routing solutions, using a range of routing protocols in IPv4 and IPv6 environments. The course also covers the configuration of secure routing solutions to support branch offices and mobile workers. This course prepares students to take the CCNP Implementing Cisco IP Routing (ROUTE) certification exam. Prerequisite: INT-2460 with grade of C or higher, or verification of CCNA certification to department coordinator. 2 class/3 lab hours.

INT-2820  CCNP: IP SWITCHING.  3 CREDITS  
Students will learn how to plan, configure, and verify the implementation of complex enterprise switching solutions. The course also covers the secure integration of VLANs, WLANs, voice, and video into campus networks. This course prepares students to take the CCNP Implementing Cisco IP Switched Networks (SWITCH) certification exam. Prerequisite: INT-2460 with grade of C or higher, or verification of CCNA certification to department coordinator. 2 class/3 lab hours.

INT-2830  CCNP: MAINTAINING AND TROUBLESHOOTING IP NETWORKS.  3 CREDITS  
Teaches students how to monitor and maintain complex enterprise routed and switched IP networks. Skills learned include the planning and execution of regular network maintenance, plus best practices for diagnosing and resolving problems. Prepares students to take the CCNP TSHOOT certification exam. Prerequisite: INT-2460 with grade of C or higher, or verification of CCNA certification to the department coordinator. 2 class/3 lab hours.

INT-2840  SYSTEMS ANALYSIS AND PROJECT MANAGEMENT.  4 CREDITS  
A structured approach to analysis, design, and development of computer information systems, including a team project utilizing project management concepts and tools. This capstone course in the Information Technology A.A.S., Information Science A.S., and Information Security A.A.S. programs should be taken near the end of the student’s program of study. Capstone Course: Students must have completed a minimum of 18 credits of INT/CIS coursework and 45 credits overall prior to enrolling in this course. A minimum cumulative GPA of 2.00 or higher is also required. NOTE: Capstone course minimum credit requirements do not apply to the Information Security Management Certificate, and students in that program should see the IET department chair to enroll. (Formerly offered as CIS-2840. Students may not receive credit for both CIS-2840 and INT-2840.) 3 lecture/3 lab hours.

INT-2850  SERVER-SIDE WEB DEVELOPMENT.  3 CREDITS  
Building on the knowledge gained in INT-1850 on how to develop Web pages on the client side, students learn how to do server-side Web development using PHP, an open-source scripting language, and MYSQL, an open-source database system. Students learn to create and modify Web pages dynamically by executing server-side PHP scripts. Additionally, student learn to set up queries to a relational database system to provide data requested through HTML forms. (Formerly INT-1860. Students may not receive credit for both INT-1860 and INT-2850.) Prerequisite: INT-1850 with grade of C or higher. 2 class/2 lab hours.
INT-2890H  HONORS COLLOQUIUM IN INFORMATION TECHNOLOGY.  3 CREDITS
This honors colloquium will examine special topics in the field of Information Technology and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. (Formerly offered as CIS-2890H. Students may not receive credit for both CIS-2890H and INT-2890H.) Prerequisite: Reading proficiency and permission of instructor or honors coordinator.

INT-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

MATHEMATICS (MAT)
Mathematics Department
Marlboro Hall, Room 3046 | 301-546-0421
Students must enroll in a general education math course appropriate for their program of study within their first 18 hours of credit-bearing courses.

A grade of C or higher is required for any course used to satisfy a prerequisite for any other math course. All mathematics courses require extensive use of a computer and/or a graphing calculator. Chapter six provides an overview of the sequences of courses offered by the Mathematics Department. Course descriptions should be checked for specific prerequisites. In addition, all math courses have a prerequisite of reading proficiency.

MAT-0104  INTERMEDIATE ALGEBRA.  0 CREDITS (4 EH)
Continuing development and applications of algebraic, graphing, calculator and problem-solving skills, with emphasis on linear and non-linear expressions, functions, equations and inequalities. ("Non-linear" includes absolute value, polynomial, rational, radical, exponential and logarithmic.) Other topics include real and complex numbers, exponents and radicals. Prerequisites: Math placement score or DVM-0071 completed with grade of C or higher, or equivalent. Reading placement score or DVR-0061 completed or concurrent or equivalent. Student must have a graphing calculator.

MAT-1050  ELEMENTS OF MATHEMATICS.  4 CREDITS  M
Designed for students preparing to teach at the preschool and elementary level. Overview of mathematical systems, including sets, natural numbers, integers, rational and irrational numbers, algorithms, and computational methods. Prerequisite: Math placement score or MAT-0104 (formerly MAT-1040) with grade of C or higher. 3 class/2 lab hours.

MAT-1060  ELEMENTS OF GEOMETRY AND LOGIC.  4 CREDITS
Designed for students in elementary education. Review and analysis of geometrical principles, logic and the application of computer methods to these topics. Prerequisite: MAT-1050 with grade of C or higher. 3 class/2 lab hours.

MAT-1120  FINITE MATHEMATICS.  3 CREDITS
General overview of college-level mathematics with emphasis on applications to various fields. Use of functions, probability, statistics, graphing, and computer techniques in problem-solving. Prerequisite: Math placement score or MAT-0104 (formerly MAT-1040) with grade of C or higher.

MAT-1130  MATHEMATICS FOR THE LIBERAL ARTS.  3 CREDITS
Survey of modern mathematics and applications, historical perspective, and calculator/computer applications with emphasis on the liberal arts. Topics include sets, probability and statistics, systems of numeration, modern algebraic structures, and modern geometries. Prerequisite: Math placement score or MAT-0104 (formerly MAT-1040) with grade of C or higher.

MAT-1140  INTRODUCTION TO STATISTICS.  3 CREDITS
Basic statistical concepts and their applications in a variety of fields. (Credit may not be received for both MAT-1140 and MAT-1160.) Prerequisite: Math placement score or MAT-0104 (formerly MAT-1040) with grade of C or higher.

MAT-1150  QUANTITATIVE MODELING AND REASONING.  4 CREDITS
Intended for students who need only one general education mathematics course not specified in their program. This course includes support in intermediate algebra as needed to study concepts in modern mathematics and their applications. Linear, quadratic, exponential, and logarithmic functions are used to represent problems across a variety of contexts and disciplines. Structures and algorithms are used to model and make decisions in social choice, management
science, art and nature, and consumer finance. Students must pass an algebra competency exam, offered mid-semester, to receive credit for this course. MAT-1150 is a terminal course and will not serve as preparation or prerequisite for any other mathematics course. Credit will not be awarded for both MAT-1130 and MAT-1150. Prerequisites: math placement score and permission of the Mathematics Department. 3 class/2 lab hours.

MAT-1160 ELEMENTS OF PROBABILITY AND STATISTICS. 4 CREDITS
Basic concepts of probability and statistics with a variety of applications. Designed for students in elementary education; students in other disciplines may tailor assignments to their interest. Credit may not be received for both MAT-1140 and MAT-1160 nor for both MAT-1160 and MAT-1190. Prerequisite: MAT-1050 with grade of C or higher.

MAT-1190 PROBABILITY. 4 CREDITS
Probability and probability distributions. (Credit may not be received for both MAT-1190 and MAT-1160.) Prerequisite: Math placement score or MAT-0104 (formerly MAT-1040) with grade of C or higher.

MAT-1340 TRIGONOMETRY WITH APPLICATIONS TO TECHNOLOGY. 3 CREDITS
Introduction to problem solving with right-triangle trigonometry and review of geometrical concepts. Emphasis on problem-oriented application of trigonometric functions and relationships. Intermediate algebra required. Prerequisite: Math placement score or MAT-0104 (formerly MAT-1040) with grade of C or higher. 3 class/1 lab hours. (Offered spring only.)

MAT-1350 COLLEGE ALGEBRA AND TRIGONOMETRY I. 3 CREDITS
Graphing and analysis of functions; study of absolute value, polynomial, rational, radical, exponential and logarithmic functions; polynomial and rational inequalities; systems of nonlinear equations; basic trigonometric functions of sine, cosine and tangent, their graphs, and right and oblique triangle applications. Prerequisite: Math placement score or MAT-0104 (formerly MAT-1040) with grade of C or higher. 3 class/1 recitation hours.

MAT-1360 TRIGONOMETRY AND ANALYTIC GEOMETRY. 4 CREDITS
Trigonometric functions; analytic trigonometry; applications of trigonometry using the unit circle approach, and vectors; complex numbers and polar coordinates; conic sections and parametric equations; sequences and summation; induction and binomial theorem systems of equations and algebra of matrices. Preparation for calculus. Prerequisite: Math placement score or MAT-1350 with grade of C or higher. 4 class/1 recitation hours.

MAT-1370 PRECALCULUS. 5 CREDITS
Graphing and analysis of functions; study of absolute value, polynomial, rational, radical, exponential and logarithmic functions; systems of equations and inequalities including algebra of matrices and linear programming; trigonometric functions; analytic trigonometry; applications of trigonometry including right triangles, oblique triangles and vectors; complex numbers and polar coordinates; conic sections and parametric equations; sequences and summation; induction and binomial theorem. Preparation for calculus. Alternative to MAT-1350–1360 sequence for well-qualified students. Successful completion of high school level geometry and trigonometry is necessary. Prerequisite: Math placement score or permission of mathematics department. 5 class/1 recitation hours.

MAT-2160 APPLIED CALCULUS I. 3 CREDITS
First course in a two-course sequence of applied calculus for business and social and life sciences majors. Topics include limits, differentiation, integration, functions of several variables including partial derivatives, and applications. Prerequisite: Math placement score or MAT-1350 with grade of C or higher. (Offered spring only.)

MAT-2170 APPLIED CALCULUS II. 3 CREDITS
Second course in a two-semester sequence of applied calculus for business and social and life sciences majors. Topics include differentiation and integration of trigonometric functions, techniques of integration, improper integrals, functions of several variables, introduction to differential equations, Taylor polynomials, infinite series and applications including probability theory. Prerequisite: MAT-2160 or MAT-2410 with grade of C or higher. (Offered spring only.)
MAT-2210 STATISTICS. 3 CREDITS
Introduction to statistical concepts and applications, including probability, random variables, sampling, hypothesis testing, regression, and ANOVA. Business applications are stressed. A statistical computer software package will be used. Prerequisites: Math placement score or MAT-1350 with grade of C or higher. 3 class/1 recitation hours.

MAT-2410 CALCULUS I. 4 CREDITS
First course in a three-semester sequence of university-level calculus for a variety of majors including, but not exclusive to, science, engineering, and mathematics. It provides an introduction to single variable calculus; study of limits, continuity, differentiation and its applications, definite and indefinite integrals and the Fundamental Theorem of Calculus. Prerequisite: Mathematics placement score or MAT-1360 with grade of C or higher or MAT-1370 with a grade of C or higher.

MAT-2420 CALCULUS II. 4 CREDITS
Second course in a three-semester sequence of university-level calculus for a variety of majors including, but not exclusive to, science, engineering, and mathematics. Includes the study of integration techniques for single variable functions, applications of integration, improper integrals, and infinite series including Taylor series and their applications. Prerequisite: MAT-2410 with grade of C or higher.

MAT-2430 CALCULUS III. 4 CREDITS
Third course in a three-semester sequence of university-level calculus for a variety of majors including, but not exclusive to, science, engineering, and mathematics. Includes the study of analytic geometry in space, vector-valued functions with applications, differentiation and integration of multi-variable functions with applications, integration in vector fields including line and surface integrals, and Green's, Gauss's, and Stokes' theorems. Prerequisite: MAT-2420 with grade of C or higher.

MAT-2450 LINEAR ALGEBRA. 4 CREDITS
Concepts and applications of linear algebra, including vector spaces, theory of linear equations, matrices, determinants, linear transformations, basis and dimension, and eigenvalues and eigenvectors. Computer/calculator use will be extensive. Offered spring only. Prerequisite: MAT-2410 with grade of C or higher.

MAT-2460 DIFFERENTIAL EQUATIONS. 4 CREDITS
Study of first order differential equations, higher order linear equations and systems of differential equations and their applications. Solution techniques include various analytical methods, Laplace transforms and numerical methods. The use of mathematical software is an integral part of the course. Prerequisite: MAT-2420 with grade of C or higher.

MAT-2500 MATHEMATICS OF DISCRETE STRUCTURES. 3 CREDITS
For computer science majors. Sets, statements, algorithms, logic and proofs, relations, functions, induction, graphs, combinatorics, probability, matrix algebra. Prerequisite: MAT-2160 or 2410 with grades of C or higher. 3 class/1 recitation hours.

MAT-2550 INTRODUCTION TO MATLAB. 1 CREDIT
Fundamentals of MATLAB, including working with MATLAB user interface, basic commands, variables and expressions of various data types, solving equations, pre-calculus and calculus operations, matrices and vectors, functions, basic programming, and M-files. Prerequisite: MAT-2410 or higher concurrently.

MAT-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
**MEDICAL ASSISTING (MAS)**
Allied Health and Nursing Department
Center for Health Studies, Room 1402 | 301-546-0733

**MAS-1050 LAW AND ETHICS FOR MEDICAL ASSISTANTS AND ALLIED HEALTH.** 3 CREDITS
An introduction to the legal and ethical responsibilities of a health care worker. Emphasis is placed on the laws and regulations governing health care, including HIPAA, contractual agreements, malpractice and federal and state legislation governing health care operations. The focus is on professional ethics and standards of care. Prerequisites: Eligibility for EGL-1010, MAT-1120, and BIO-2050. Must be admitted to the Medical Assisting Program.

**MAS-1060 INTRODUCTION TO COMPUTERIZED MEDICAL PRACTICE.** 3 CREDITS
Explores evolving computer technology, teaches the use of the microcomputer as a medical office productivity tool, and lays the foundations for the development of standard keyboarding dexterity. Becoming fluent in necessary technology applications is integrated into the course and may include such topics as word processing, use of e-mail, web browsers, and spreadsheets. Specific emphasis will be placed on using a word processor to transcribe the most common types of medical reports used in outpatient medical practices.

**MAS-2010 ADMINISTRATIVE MEDICAL ASSISTING.** 3 CREDITS
An introduction to daily office management operations, patient scheduling, basic accounting, banking procedures, and managing office finances. Focuses on types of health insurance plans, managed care procedures and operations, third-party claims, managing patient referrals, and processes for filing health insurance claims. Emphasis is placed on interpersonal, written, and oral communication in the clinical setting. Prerequisites: BIO-2060 and MAS-1060 with grades of C or higher. Corequisites: MAS-2010 and MAS-2030.

**MAS-2020 CLINICAL PROCEDURES I.** 4 CREDITS
Theory and skills required to function in the clinical setting. Focus is on health, wellness, and health promotion for the entire life span. Apply learned concepts in the clinical laboratory, including medication calculation and administration, sterile procedures and aseptic technique, electrocardiogram, health measurements and metrics, and assisting with clinical procedures. Strong emphasis on clinical documentation, infection control, and the guidelines pertaining to safe practice in the clinical setting. Students are required to perform select procedures on each other during college laboratory. Prerequisites: BIO-2060 and MAS-1060 with grades of C or higher. Corequisites: MAS-2010 and MAS-2030. 3 class/3 lab hours.

**MAS-2030 PHARMACOLOGY FOR MEDICAL ASSISTANTS.** 3 CREDITS
Introduction to medication classifications according to body system. Emphasis is placed on pharmacokinetics, proper dosing and route of administration, side effects, mechanism of action, and contraindications. Focuses on laws pertaining to Drug Enforcement Agency (DEA), drug classifications and storage, medication dispensing, and proper disposal. Students learn pharmacy symbols and abbreviations, and patient teaching related to medication compliance and achieving optimal efficacy. Prerequisites: BIO-2060 and MAS-1060 with grades of C or higher; eligibility for EGL-1010 and MAT-1120. Corequisites: MAS-2010 and MAS-2020.

**MAS-2040 PROFESSIONAL SEMINAR.** 1 CREDIT
Prepares students for the externship experience. Focuses on the traits and behaviors of the professional medical assistant, and the importance of credentialing. This course is a review of the general, administrative, and clinical concepts and competencies based on national guidelines for medical assisting graduates. Prerequisites: MAS-2010, 2020, and 2030 with grades of C or higher and eligibility for EGL-1010 and MAT-1120. Corequisites: MAS-2050 and 2060.

**MAS-2050 CLINICAL PROCEDURES II.** 4 CREDITS
Presentation of selected lab activities and responsibilities of the medical assistant in areas of hematology, immunology, microbiology, chemistry, urinalysis, preparing body fluids for analysis, point of care testing and venipuncture. Focus is on the application of quality assurance measures to ensure accurate testing. Emphasis is on the infection cycle and methods of prevention including Standard Precautions, protective personal equipment, OSHA regulations, and Material Safety Data Sheets. Also teaches the role of the medical assistant in maintaining a safe environment in the clinical laboratory as well as disaster preparedness. Prerequisites: BIO-2050 and 2060, HIM-1530, and MAS-1060 with grades of C or higher. Corequisites: MAS-2040 and MAS-2060. 2 class/3 lab hours.
MAS-2060  MEDICAL ASSISTING PRACTICUM.  3 CREDITS
The concluding medical assisting course that provides practical applications and experiences. Students perform general, administrative and clinical competencies in a supervised setting. The practicum is 160 hours of unpaid, supervised work in the clinical setting. Prerequisites: MAS-2010, 2020, and 2030 with grades of C or higher. Corequisites: MAS-2040 and 2050. 20 clinical hours/week.

MULTI-DISCIPLINARY ENGLISH/HISTORY (MLD)
History, Political Science, Geography, and Anthropology Department | Marlboro Hall, Room 3078 | 301-546-0561

MLD-1410  MULTI-DISCIPLINARY EGL-1010/HST-1410.
6 CREDITS  E, SS
A dual, interdisciplinary course applying the techniques of expository writing to the content of American history from the colonial period through the Civil War. Students will earn credit for both EGL-1010 and HST-1410. Prerequisites: Reading and writing proficiency or C or higher in EGL-1000 or in ESL-2020.

MLD-1430  MULTI-DISCIPLINARY EGL-1020/HST-1430.
6 CREDITS  E, SS
A dual, interdisciplinary course using literature and literary analysis to augment the study of American history from the Civil War through the present. The course incorporates university-parallel study of and writing about American literature by genre (e.g., fiction, poetry, drama), including essays, a research paper, online/special projects, and a writing-lab component. Students will earn credit for both EGL-1020 and HST-1430. Prerequisites: Reading and writing proficiency or EGL-1010 with a C or higher. 6 lecture hours.

MUSIC (MUS)
Art, Music, and Philosophy Department
Marlboro Hall, Room 1068 | 301-546-0955

MUS-1000  FUNDAMENTALS OF MUSIC THEORY.  3 CREDITS
Preparation for MUS-1150 for those lacking a strong background. Basic principles of music theory. Prerequisite: Reading proficiency. 2 class/2 lab hours.

MUS-1010  MUSIC APPRECIATION.  3 CREDITS  H
Appraisal of the different styles of music from the Middle Ages to the present time. Not open to music majors. Prerequisite: Reading proficiency.

MUS-1030  CONCERT CHOIR.  1 CREDIT
Mixed chorus performing music selected from the Renaissance to the present. Required for voice majors. May be repeated for up to four credits. 3 lab hours.

MUS-1050  SURVEY OF MUSIC LITERATURE.  3 CREDITS
Course has been re-numbered. See MUS-2050.

MUS-1110  JAZZ ENSEMBLE.  1 CREDIT
Group performance for instrumentalists. Required for students taking applied instrumental lessons. May be repeated for up to four credits. 3 lab hours.

MUS-1150  THEORY I.  3 CREDITS
Principles of music theory. Primary triads and inversion, cadence, form, keyboard, solfege, dictation. Prerequisite: Placement exam or MUS-1000. 2 class/4 lab hours.

MUS-1160  THEORY II.  3 CREDITS
Continuation of MUS-1150. Secondary triads, nonharmonic tones, dominant and supertonic seventh chords and inversions, keyboard, solfege, dictation. Prerequisite: MUS-1150. 2 class/4 lab hours.

MUS-1210  CLASS PIANO I.  1 CREDIT
Group piano instruction for beginners; music reading, scales, chords, repertory. Practice facilities available. Required of non-piano music majors. 2 lab hours.

MUS-1220  CLASS PIANO II.  1 CREDIT
Group instruction for advanced beginners. Practice facilities available. Prerequisite: MUS-1210 or referral. 2 lab hours.

MUS-1230  CLASS VOICE I.  1 CREDIT
Training the singing voice, applying vocal principles to the preparation of songs. Required of non-voice music majors. 2 lab hours.

MUS-1240  CLASS VOICE II.  1 CREDIT
English, Italian, German, and French pronunciation in song literature, stage presence, and recital planning. 2 lab hours.

MUS-1250  SIGHT SINGING AND EAR TRAINING.  1 CREDIT
The study of aural skills, including sight singing of standard music scores with solfeggio, and dictation of harmonic, melodic, and rhythmic materials. Prerequisite: MUS-1000 or 1150 with a grade of C or higher. 2 lab hours.
MUS-1290–1400  APPLIED MUSIC
(PRIVATE INSTRUCTION).*  2 CREDITS
Grade of C or higher in the first course plus permission of the
Music Department, in order to enroll in the second course
in the sequence. One 60-minute private lesson per week plus
assigned independent practice. *Special Fee: $250 for private
instruction, one hour per week per semester. Private lessons
may be taken as a major emphasis toward a music degree, as a
supplementary subject in the music program or for personal
enrichment. Students enrolling for credit must audition and
are required to perform in two seminars, attend eight semi-
nars, enroll in an ensemble and take a jury exam.
• MUS-1290–1300  Voice
• MUS-1310–1320  Woodwind
• MUS-1330–1340  Brass
• MUS-1350–1360  Strings (including Jazz,
Classical, and Bass Guitar)
• MUS-1370–1380  Percussion
• MUS-1390–1400  Piano

MUS-1500  INTRODUCTION TO MUSIC TECHNOLOGY.
3 CREDITS
Covers various contemporary and historical technologies
used in the composition, notation, performance, recording
and distribution of music. Students will explore the influence
of technology upon music and musical culture. Prerequisite:
Reading proficiency.

MUS-1510  DIGITAL NOTATION.  3 CREDITS
Course has been re-numbered. See MUS-2510.

MUS-1520  DIGITAL AUDIO.  3 CREDITS
Course has been re-numbered. See MUS-2520.

MUS-1600  MIDI SEQUENCING I.  3 CREDITS
Course has been re-numbered. See MUS-2600.

MUS-2050  SURVEY OF MUSIC LITERATURE.  3 CREDITS
Survey of musical repertoire. Prerequisites: Reading profi-
ciency and MUS-1150 or permission of instructor.
(Formerly MUS-1050. Students may not receive credit
for both MUS-1050 and MUS-2150.)

MUS-2150  THEORY III.  3 CREDITS
Continuation of MUS-1160. Modulation to closely related
keys, all seventh chords, altered chords, analysis, keyboard,
solfege and dictation. Prerequisite: MUS-1160. 6 lab hours.

MUS-2160  THEORY IV.  3 CREDITS
Continuation of MUS-2150. Augmented-sixth chords, foreign
modulation and extended chords, musical analysis and com-
position. Prerequisite: MUS-2150. 6 lab hours.

MUS-2290–2400  ADVANCED APPLIED MUSIC
(PRIVATE INSTRUCTION).*  2 CREDITS
Enrollment in the first course in each two-course sequence
requires a C or higher in the 1000-level courses offered in
the same medium. Participation in the second semester of
these two-course sequences requires a C or higher in the first
semester course and permission of the Music Department.
(For example, students must have earned a C or higher in
MUS-1290 and 1300 in order to enroll in MUS-2290. They
must then earn a C or higher in MUS-2290, to qualify for
enrollment in MUS-2300). One 60-minute private lesson per
week plus assigned independent practice. *Special Fee: $250
for private instruction, one hour per week per semester.
• MUS-2290–2300  Voice
• MUS-2310–2320  Woodwind
• MUS-2330–2340  Brass
• MUS-2350–2360  Strings (including Jazz,
Classical, and Bass Guitar)
• MUS-2370–2380  Percussion
• MUS-2390–2400  Piano

MUS-2510  DIGITAL NOTATION.  3 CREDITS
Covers the technologies utilized in creating and publishing
printed music. Students produce printed vocal scores that
include notation and lyrics and instrumental scores that
accommodate transposing instruments. Students will gain
proficiency with state-of-the-art music publishing techniques.
Prerequisite: MUS-1000 or 1150 with a grade of C or higher.
(Formerly MUS-1510. Students may not receive credit for
both MUS-1510 and MUS-2510.)

MUS-2520  DIGITAL AUDIO.  3 CREDITS
Students learn various methods used in audio recording
and distribution, utilizing computer systems and specialized
hardware. Topics include multi-track recording, audio edit-
ing and restoration, signal processing, dithering and format
conversion, audio mastering and MIDI. (Formerly MUS-
1520. Students may not receive credit for both MUS-1520
and MUS-2520.) Prerequisite: MUS-1500 or INT-1010
with grade of C or higher or permission of instructor.
2 class/2 lab hours.
MUS-2600  MIDI SEQUENCING.  3 CREDITS
Introductory Musical Instrument Digital Interface protocol (MIDI) and its applications. Topics include General MIDI components, recording and data entry, file editing and synchronization. (Formerly MUS-1600. Students may not receive credit for both MUS-1600 and MUS-2600.) Prerequisite: MUS-1500 or INT-1010 with grade of C or higher, or permission of instructor. 2 class/2 lab hours.

MUS-2890H  HONORS COLLOQUIUM IN MUSIC.  3 CREDITS
This honors colloquium will examine special topics in the field of music and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

MUS-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

NUCLEAR MEDICINE TECHNOLOGY (NUM)
Allied Health and Nursing Department
Center for Health Studies, Room 1402 | 301-546-0733
NUM courses are offered once per year in the fall, spring, or summer. Prerequisites require a grade of C or higher.

NUM-1550  INTRODUCTION TO NUCLEAR MEDICINE TECHNOLOGY I.  4 CREDITS
Introduction to nuclear medicine. Topics include radiation physics, radiation detection and instrumentation, and clinical applications of radionuclides. Prerequisites: Admission to the program, BIO-1010/2050, MAT-1350, PHY-1010, and CHM-1010 with grades of C or higher. Corequisite: NUM-1560. (Offered spring only.)

NUM-1560  INTRODUCTION TO NUCLEAR MEDICINE TECHNOLOGY II.  4 CREDITS
Continuation of NUM-1550. Orientation to clinical nuclear medicine, medical terminology, professional ethics and conduct, patient care, and radiation safety. Corequisite: NUM-1550. (Offered spring only.)

NUM-2510  NUCLEAR MEDICINE TECHNIQUES I.  3 CREDITS
In-depth coverage of instrumentation, diagnostic computer systems, and advanced imaging techniques, including CT and MRI. Prerequisites: NUM-1550, NUM-1560, NUM-2530. (Offered fall only.)

NUM-2520  NUCLEAR MEDICINE TECHNIQUES II.  3 CREDITS
Continuation of NUM-2510. Clinical nuclear medicine including radionuclide therapy, department records and administration, and research methods. Prerequisites: NUM-2510, NUM-2530, NUM-2540, and NUM-2550. (Offered spring only.)

NUM-2530  CLINICAL NUCLEAR MEDICINE TECHNOLOGY I.  3 CREDITS
Directed practice in an affiliated hospital; emphasizes routine diagnostic and therapeutic procedures. Daily image critiques by a licensed/certified technologist. On-site lectures by board-certified physicians supplement the clinical experience. Prerequisite: NUM-1550 and NUM-1560. 22.5 clinical hours per week (8 weeks). (Offered summer only.)

NUM-2540  CLINICAL NUCLEAR MEDICINE TECHNOLOGY II.  6 CREDITS
Continuation of the directed practice in an affiliated hospital. Students will develop their independent clinical techniques. On-site lectures by board-certified physicians supplement the clinical experience. Prerequisite: NUM-2530. 24 clinical hours per week (15 weeks). (Offered fall only.)

NUM-2550  RADIOPHARMACY AND RADIATION CHEMISTRY.  2 CREDITS
Basic skills essential to the operation of a radiopharmacy. Production of radionuclides, radiopharmaceutical localization methods, radiolabeling, quality control, adverse reactions; regulations for transport, use and disposal of radioactive materials and NRC/Agreement state inspections; radiopharmacy design. Prerequisites: NUM-1550, NUM-1560. 2 class/1 lab hour. (Offered fall only.)
NUM-2600  CLINICAL NUCLEAR MEDICINE TECHNOLOGY III.
6 CREDITS
Continued practice in an affiliated hospital. The student will
develop independent clinical techniques and create a clinical
procedures manual. Prerequisite: NUM-2540. Capstone
Course: Degree students must complete a minimum of 49
credits, including any prerequisite courses, prior to enrolling
in this course. Certificate students must complete a minimum
of 42 credits, including any prerequisite courses, prior to en-
rolling in this course. 24 clinical hours per week (15 weeks). (Offered spring only.)

NURSING (NUR)
Nursing Department
Center for Health Studies, Room 1402 | 301-546-0731
RN Nursing Program prerequisites: EGL-1010, NUR-1010,
BIO-2050, BIO-2060, PSY-1010, and MAT-1120 or higher.
All require a grade of C or higher. No RN Nursing Program
prerequisite can be repeated more than once.
  LPN program prerequisites: EGL-1010, NUR-1000,
BIO-2050, BIO-2060, and PSY-1010. All require a grade of
C or higher. No LPN program prerequisite can be repeated
more than once.

Students must achieve a 2.50 GPA in the required
prerequisites for either program.

NUR-1000  INTRODUCTION TO PRACTICAL NURSING (PN).
3 CREDITS
This is an introductory course with a focus on preparing the
student for the rigorous study required for clinical nursing
courses. The patient-needs framework and nursing process
concepts form the basis of the curriculum. Microbiology
concepts related to nursing practices will be mastered by the
students. Nursing history, dosage calculations, ethical and legal
concepts, critical thinking, and test-taking skills are content
areas for this course. The student will be introduced to the
socialization process of practical nurses. Upon satisfactory
completion of this course and other prerequisites the student
is eligible to petition for admission into the Practical Nursing
Program. Prerequisites: EGL-1010, BIO-2050, placement for
college level algebra, officially enrolled as an LPN petitioner,
BIO-2060 and PSY-1010 completed or concurrent. 3 class
hours. (Offered spring only.)

NUR-1010  INTRODUCTION TO NURSING (RN). 1 CREDIT
This is an introductory course which focuses on preparing the
student for the rigorous study required for the clinical nursing
courses. The patient-needs framework of the curriculum and
nursing process will be discussed. Ethical and legal issues,
nursing history and discussion of the health care system will be
emphasized. Students are introduced to effective methods of
stress management, test-taking skills and critical thinking con-
cepts. Cultural sensitivity and dosage calculations are among
other concepts explored. Prerequisites: EGL-1010, BIO-2050,
MAT-1120 or higher, BIO-2060 and PSY-1010 completed or concurrent. Upon successful completion of NUR-1010 the
student may petition for admission to the Nursing Program
(RN). 7 weeks: 2 class hours.

NUR-1020  FOUNDATIONS OF NURSING PRACTICE. 7 CREDITS
This course introduces students to concepts about the indi-
vidual, environment, health, nursing and the learning process.
The acquired knowledge enables students to effectively meet
patient needs across the lifespan. Introduction of nursing
theory and practice that supports a safe, effective care envi-
ronment, physiological and psychological integrity, as well as
health promotion are emphasized. Guided practice in a health
care setting is correlated with classroom and campus lab expe-
riences. Prerequisites: NUR-1000 or NUR-1010, BIO-2060,
BIO-2010 completed or concurrent. Upon successful completion of NUR-1010 the
student may petition for admission to the Nursing Program
(RN). 15 weeks/3.5 class/8 clinical/2 lab hours.

NUR-1030  REPRODUCIVE HEALTH. 3 CREDITS
This course presents a holistic approach to the care of the
childbearing family. Emphasis is on principles and application
of theory when using the nursing process in care of patients
during all phases of the childbearing cycle. Disorders and
diseases affecting the female and male reproductive tract are
included. Clinical settings include mother-baby units, labor
and delivery, and neonatal intensive care. Prerequisites: NUR-
1020, 1040 concurrent. 15 weeks/1.5 class/5 clinical (for 9
weeks)/1.5 lab hours.
NUR-1040  PHYSIOLOGICAL INTEGRITY I: Nursing the Client with Acute and Chronic Health Alterations.  
5 CREDITS  
This course is designed to assist students to meet the health care needs of patients with commonly occurring acute and chronic health disorders. Physiological and psychosocial adaptation, prevention and early detection and self-care will be emphasized with a focus on maintaining a safe, effective care environment and the application of previously learned skills and information. Pharmacological concepts will be integrated throughout the course content. Clinical experiences will be provided in supervised, structured health care settings. Prerequisites: NUR-1020; NUR-1030 concurrent. 15 weeks/2.5 class/6 clinical/1.5 lab hours.

NUR-1050  ADAPTATION AND PRACTICES—PN.  8 CREDITS  
This course includes the multifaceted approach to health promotion of children and adults with complex health needs. Nursing interventions for the patient with complex health problems in the areas of safe and effective care, psychosocial adaptation and physiological adaptation are included. The nursing role is developed with emphasis on health maintenance, health promotion and disease prevention. Selected clinical practices in a long-term care or acute care setting allow the student to analyze and synthesize valuable skills and knowledge. Content also includes transition into practice, issues of the nursing profession, roles of the practical nurse and NCLEX-PN preparation. This is the culminating experience course for the PN program. Prerequisites: satisfactory completion of NUR-1000, 1020, 1030, 1040, and completion of all other general education requirements for LPN certificate. 10 weeks: 6 class/10 clinical (for six weeks)/3.5 lab hours. (Offered summer only.)

NUR-1060  LPN TO RN TRANSITION.  6 CREDITS  
This course is designed to prepare licensed practical nurses for entry into the second year of the associate degree Nursing Program. The nursing role is differentiated with emphasis on health maintenance, health promotion, and disease prevention. Content will be presented within the patient-needs framework and include topics such as role transitioning, nursing process, documentation, communication and legal and ethical issues. Selected content from the first year of the associate degree program in physiological integrity, growth and development, and dosage calculation will be reviewed. Supervised clinical practice in selected acute care settings will be provided. Independent study and review of previously learned concepts of nursing care of the maternity and newborn patient will be required. Upon satisfactory completion of this course the student is eligible to enroll in NUR-2010 and NUR-2020. Prerequisites: Admission to the Transition program. 4 class/5 clinical (for 12 weeks)/2 lab hours. (Offered fall and spring.)

NUR-1070  PARAMEDIC-RN TRANSITION OPTION.  
8 CREDITS  
This 10-week course (offered in the summer only) is designed to prepare paramedics for entry into the second year of an associate degree nursing program. Information from the first year nursing program courses is presented in a condensed format. The patient-needs framework of the curriculum, as well as nursing processes will be explored. Students are presented with effective methods of stress management, test-taking skills and critical thinking concepts. The nursing role is discussed with emphasis on health maintenance, health promotion, physiological and psychosocial integrity and adaptation. Pharmacological concepts will be integrated throughout the course content. Topics also include role transition, nursing process, documentation, communication, legal and ethical issues. Selected content for the first year of the associate degree program include acute and chronic health disorders, care of the patients during all phases of the child bearing cycle, disorders and diseases affecting the female and male reproductive tract and dosage calculations. Supervised clinical practice in selected long-term care or acute care settings is correlated with classroom and campus laboratory experience. Upon successful completion of this course the student is eligible to enroll into the second year courses of the RN program (NUR-2010 and NUR-2020). Prerequisite: Program admission and completion of EGL-1010, MAT-1120 (or higher), BIO-2050, BIO-2060, BIO-2010, and PSY-1010 with grades of C or higher. 4 class/10 clinical (for six weeks)/3.5 lab hours (Offered summer only.)

NUR-2010  NURSING CARE OF CHILDREN AND FAMILIES.  
3 CREDITS  
This course is designed to prepare students to meet the healthcare needs of children and their families from infancy through adolescence. Physiologic and psychosocial adaptation, safety and infection control, prevention and early detection of illness and health promotion and maintenance will be emphasized. Pharmacological concepts will be integrated throughout the course. Clinical experience will be provided in supervised healthcare setting or community site. Prerequisites: NUR-1030 and 1040; NUR-2020 concurrent. 1.5 class/5 clinical (for nine weeks)/1.5 lab hours.
NUR-2020 PHYSIOLOGICAL INTEGRITY II: Nursing the Client with Multidimensional System Involvement. 5 CREDITS
This course is designed to assist students in the theoretical and practical application of the nursing process to meet the healthcare needs of clients with complex, chronic disorders with multidimensional system involvement and rehabilitation needs. Physiologic and psychosocial adaptation, prevention and early detection and self care will be emphasized, with a focus on outcome management and synthesis of information. Pharmacological concepts will be integrated throughout the course content. Clinical experience will be provided in supervised health care settings. Prerequisites: NUR-1030 and 1040; NUR-2010 concurrent. 2.5 class/6 clinical/1.5 lab hours.

NUR-2031 PSYCHOSOCIAL INTEGRITY. 3 CREDITS
Emphasizes three levels of prevention and early detection of health problems related to psychosocial adaptation throughout the life span, following the guidelines of the NCLEX Test Plan. Theory and practice include mental health concepts; therapeutic communications and environment; crisis intervention; coping mechanisms; behavioral interventions; cultural diversity and spiritual influences on health; sensory/perceptual alterations; chemical and other dependencies; family dynamics; psychopathology; safe, ethical practice; developmental stages and transitions; and pharmacologic therapies. Prerequisites: NUR-2010 and 2020; NUR-2032 and 2040 concurrent. 1.5 class/5 clinical (for 9 weeks)/1.5 lab hours.

NUR-2032 PHYSIOLOGICAL INTEGRITY III. 3 CREDITS
Focuses in depth on the nursing care for clients and families experiencing serious threats to physiological integrity. Students synthesize and integrate knowledge, skills, and abilities to evaluate and modify a plan of care; independently plan, implement, and evaluate the delivery of safe, effective care; facilitate optimal physiological functioning to maximize health outcomes. Clinical experiences will be provided in specialized acute care settings. Prerequisites: NUR-2010 and 2020; NUR-2031 and 2040 concurrent. 1.5 lecture/1.5 lab/9 clinical (for 5 weeks).

NUR-2040 MANAGEMENT OF CARE AND PROFESSIONAL ISSUES. 3 CREDITS
The focus of this course will be on providing integrated, cost-effective care to clients through coordination, supervision and collaboration with other members of the healthcare team. Students will analyze, synthesize and evaluate care for groups of patients in a variety of healthcare settings. Professional practice issues will be applied to healthcare situations and NCLEX-RN readiness, the role of the nurse and transition into the workforce. Prerequisites: NUR-2010 and 2020; NUR-2031 and 2032 concurrent. Capstone Course: Students must complete a minimum of 53 credits, including any prerequisite courses, prior to enrolling in this course.

NUR-2890H HONORS COLLOQUIUM IN NURSING. 3 CREDITS
This honors colloquium will examine special topics in the field of nursing and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

NUTRITION (NTR)
Health, Nutrition, and Physical Education Department Novak Field House, Room 104 | 301-546-0504

NTR-1010 INTRODUCTORY NUTRITION. 3 CREDITS SC
Addresses basic information about essential nutrients and their functions in the body as well as known and hypothesized relationships between long-term diets and development of chronic diseases. The course addresses current issues in nutrition and food safety research. Course content includes current issues in weight management, interactions between nutritional status and physical fitness and food safety. (Formerly BIO-115. Students cannot receive credit for both BIO-115 and NTR-1010.) Prerequisite: Reading proficiency. (Honors version available.)

NTR-1100 INTRODUCTION TO FOOD SCIENCE. 3 CREDITS SC
Introduction to basic chemical, physical, and microbiological aspects of food and the ways in which these sciences are integrated into the food industry. Course will examine technical and practical aspects involved in harvest, storage, manufacture, preservation, packaging, distribution, and marketing of food products. Current controversies in food science will be explored. (Formerly BIO-116. Students cannot receive credit for both NTR-1100 and BIO-116.) Prerequisite: Reading proficiency.
PARALEGAL (PAR)
Public Safety and Law Department
Bladen Hall, Room 208 | 301-546-0553

PAR-1510 INTRODUCTION TO LAW FOR THE PARALEGAL. 3 CREDITS
An overview of the law, the court system and the role of the paralegal in preparing cases for trial and appeal. Prerequisite: Reading proficiency.

PAR-1550 TECHNIQUES OF LEGAL RESEARCH. 3 CREDITS
Course has been re-numbered. See PAR-2450.

PAR-2450 TECHNIQUES OF LEGAL RESEARCH. 3 CREDITS
An organized approach to developing legal research skills. Students will utilize a law library, either actually or virtually, for preparing legal research assignments. Prerequisites: PAR-1510 and EGL-1010 concurrent or passed or permission of department. (Formerly PAR-1550. Students may not receive credit for both PAR-1550 and PAR-2450.)

PAR-2510 LEGAL WRITING. 3 CREDITS
A study of the style, format, content, principles and techniques of legal writing. Practice in drafting pleadings, agreements, contracts, legal documents, trial briefs, and memoranda. Prerequisites: PAR-2450.

PAR-2530 TORTS. 3 CREDITS
A study of state and federal law treating civil injury or damage to person or property, including causes of action, defenses and remedies, negligence, strict liability, and product liability in tort and personal injury litigation. Prerequisites: Reading proficiency.

PAR-2540 CONTRACTS. 3 CREDITS
A survey of the law of contracts and sales. Emphasis is placed on the elements of a contract, the types of sales, and the legal consequences, including breaches, defenses and remedies. Practice in drafting contracts and sales agreements. (Formerly PAR-1570. Students cannot receive credit for both PAR-1570 and PAR-2540.) Prerequisite: Reading proficiency.

PAR-2550 REAL ESTATE LAW. 3 CREDITS
A study of the law in relation to the sale and transfer of title in real estate transactions. This course is not designed to meet Maryland real estate licensure requirements. Prerequisite: Reading proficiency.

PAR-2560 BASIC MEDIATION. 3 CREDITS
A survey of the basic characteristics of facilitative mediation, in which a neutral third party helps people in disputes to communicate with and understand one another and if possible, to help reach agreements that are mutually satisfactory. Topics will include theory, goals, language, and application of mediation methodologies; techniques to overcome barriers in disputes; the roles of attorneys and clients in mediation; the ethical responsibilities of mediators; and strategies to deal with difficult people, power imbalances, and cultural sensitivity. Prerequisite: Reading proficiency.

PAR-2570 WILLS, ESTATE PLANNING, AND PROBATE. 3 CREDITS
A study of the rules governing the disposition of property upon death, procedures used to probate an estate, and principles of law governing other legal issues associated with aging, death, and dying. Focuses on estate planning, wills, trusts, joint ownership and insurance. Prerequisite: Reading proficiency. (Offered spring only.)

PAR-2580 EMPLOYMENT LAW. 3 CREDITS
An examination of the rights and duties of employers and employees and the role of the paralegals as part of the team representing each. Topics include the rights and duties of all parties when hiring, promoting, transferring, and terminating employees; privacy and discrimination issues; hour and wage laws; the role of government and labor unions; and workers compensation issues for employment injuries. (Formerly PAR-1580. Students cannot receive credit for both PAR-1580 and PAR-2580.) Prerequisite: Reading proficiency. (Offered fall only.)
PAR-2590  DOMESTIC RELATIONS.  3 CREDITS
A study of the law and the practice of domestic relations, including prenuptial and separation agreements, divorce, alimony, child support, custody, and visitation. Emphasis is on the special pleadings and documents to be prepared for the courts, the agreements to be drawn between the parties, the grounds for divorce and separation, and the defenses presented. (Formerly PAR-1590. Students cannot receive credit for both PAR-1590 and PAR-2590.) Prerequisite: Reading proficiency.

PAR-2610  LEGAL ETHICS.  3 CREDITS
A study of ethical considerations which apply to both lawyers and paralegals when dealing with clients, the courts, and other parties to legal disputes and litigation. (Formerly PAR-1610. Students may not receive credit for both PAR-1610 and PAR-2610.) Prerequisite: Reading proficiency.

PAR-2650  CIVIL LITIGATION.  3 CREDITS
A survey of the rules regulating civil suits with practical exercises in interviewing clients and witnesses, analyzing documents, and drafting pleadings. Students will develop and prepare an individual research project that will be presented to the class, as well as an external audience. The course also includes a portfolio requirement which documents and demonstrates the student’s attainment of the skills necessary to complete routine tasks assigned to a paralegal from the moment the new client enters the law office. This is the culminating experience for the associate degree in Paralegal Studies. (Formerly PAR-1600. Students cannot receive credit for both PAR-1600 and PAR-2650.) Prerequisites: PAR-1510, 2450, 2510, 2530, and 2540, or departmental permission. Capstone Course: A cumulative GPA of 2.00 or higher is required.

PAR-2910–2930  PAR INTERNSHIP.  1–3 CREDITS
The internship is a practicum with measurable learning objectives designed to broaden the educational experience. Students are assigned to appropriate governmental and private agencies. 3–9 practicum hours. A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

PARAMEDIC (PMD) Note: All courses incorporate Statewide Protocols for Paramedic as applicable.
Allied Health Department
Center for Health Studies, Room 1402 | 301-546-0733

PMD-1000  INTRODUCTION TO PARAMEDICINE AND MEDICAL EMERGENCIES.  4 CREDITS.
Introduces the paramedic student to the roles and responsibilities central to the delivery of emergency pre-hospital advanced life support-level care. Includes paramedic and technical report writing, laws governing practice, psychosocial issues and ethical considerations and aspects of the pre-hospital EMT systems and emergency field communications. Provides knowledge and skills essential to advanced life support care of patients with medical emergencies. Covers cardiovascular, respiratory, nervous system, abdominal cavity, endocrinology, environmental emergencies, and allergies-anaphylaxis as a physiologic base for assessment and intervention. Prerequisites: EMT-B, program admission, and departmental approval. 3 class/2 lab hours.

PMD-1010  ADVANCED AIRWAY MANAGEMENT.  3 CREDITS
Provides knowledge and skills essential to advanced life support care of patients with respiratory emergencies. Advanced techniques of airway management will be covered. College laboratory, computer-assisted education and cadaver experience will be used extensively. Prerequisite: Admission to Paramedic program and departmental permission. Corequisites: PMD-1000, 1020, 1030, and 1100.

PMD-1020  PHARMACOLOGY, IV THERAPY, AND MED MATH.  3 CREDITS
Provides the paramedic student with the knowledge to be able to integrate pathophysiological principles of pharmacology and the assessment findings to formulate a field impression and implement a pharmacological management plan. This will include a review of mathematical principles as they relate to the field of emergency medicine. At the completion of the course the student will be able to safely and precisely access the venous circulation and administer medications by calculating correct drug dosages. Prerequisite: Admissions to the program and departmental permission. Corequisites: PMD-1000, 1010, 1030, and 1100. 2 class/2 lab hours.
PMD-1030  CARDIOLOGY AND EKG INTERPRETATION.  3 CREDITS
An in-depth study of the pathophysiology, assessment and treatment of cardiac emergencies including basic and advanced EKG interpretation. Extensive use of laboratory and computer-assisted instruction will be emphasized. Prerequisites: Program admissions and permission of the program director. Corequisites: PMD-1000, 1010, 1020, and 1100. 3 class/2 lab hours.

PMD-1100  PARAMEDIC CLINICAL EXPERIENCE I.  4 CREDITS
Supervised experience is provided in the hospital, field, intensive care, extended care, and surgical departments correlating with knowledge, skills, and techniques presented in PMD-1000, PMD-1010, PMD-1020, PMD-1030, and PMD-1040. Emphasis is placed on patient assessment, cardiac and respiratory emergencies, and shock and trauma. Prerequisites: Program admission and permission of program director. Corequisites: PMD-1000, 1010, 1020, and 1030. 16 clinical hours/week.

PMD-2000  STUDY OF HUMAN SYSTEMS.  3 CREDITS
Utilizes a systemic approach, beginning by formulating a basic picture of the human body then moving into more anatomic detail. Lectures and labs discuss body systems, both how they function individually and together as a unit. In addition to the overall picture of each system, this course presents the gross anatomy and the microscopic anatomy of vital structures, with special emphasis on how these structure function in diseased states during medical emergencies encountered by the paramedic in the pre-hospital environment. Prerequisites: PMD-1000, 1010, 1020, 1030, and 1100. Corequisites: PMD-2010, 2020, 2030, and 2200. 3 class/2 lab hours.

PMD-2010  SPECIAL PATIENT POPULATIONS .  3 CREDITS
Analysis of pediatric emergencies, geriatric emergencies, environmental emergencies, behavioral emergencies, substance abuse and toxicology. Obstetric and gynecological disorders are reviewed as well as the management of the expectant mother, complications of labor, and normal/abnormal delivery. Prerequisites: PMD-1000, 1010, 1020, 1030, and 1100. Corequisites: PMD-2000, 2020, 2030, and 2200. 2 class/2 lab hours.

PMD-2020  PATIENT ASSESSMENT AND MEDICAL EMERGENCIES II.  3 CREDITS
Emphasizes advanced pathological concepts and principles in caring for patients experiencing medical emergencies in the pre-hospital environment related to respiratory, cardiac, neurological, endocrinological, allergic, gastroenterological, urological and nephrological, hematological, obstetrical and gynecological, and psychiatric and behavioral issues. Lab focuses on advanced skill mastery in caring for these patients, including the continued development of critical thinking skills, and the development and implementation of treatment plans for patients with various disease states encountered in the pre-hospital environment. Continued attention is given to preparation for a role of EMS team leader, patient advocate and for entry level practice as a paramedic professional in the pre-hospital environment. Prerequisites: PMD-1000, 1010, 1020, 1030, and 1100. Corequisites: PMD-2000, 2010, 2030, and 2200. 2 class/2 lab hours.

PMD-2030  SHOCK AND TRAUMA.  4 CREDITS
An in-depth study of trauma, victim rescue theory and skills and pathophysiology of shock. Includes the study of fluid and electrolyte balance and acute changes in body fluid space. Assessment and treatment of various types of shock and trauma for both the adult and pediatric patient suffering head and facial, spinal, thoracic, abdominal, and musculoskeletal trauma. Prerequisites: PMD-1000, 1010, 1020, and 1100. Corequisites: PMD-2010, 2020, and 2200. 3 class/2 lab hours.

PMD-2040  PREPARATION FOR PARAMEDIC LICENSING EXAM.  3 CREDITS
Provides students with a comprehensive review and syntheses of the knowledge base of the paramedic. Integration and application of assessment, information-gathering skills, and decision-making will be employed through computer-assisted and scenario-based exercises. Includes a final written review examination, advanced practical skills review, and mock practical exam. This is the Capstone Course for the Paramedic Program. Prerequisites: PMD-1000, 1010, 1030, and 1100. 1 class/4 lab hours.

PMD-2200  PARAMEDIC PRACTICE III AND IV.  4 CREDITS
Practice of comprehensive patient assessment, intervention, and patient management in specialty facilities, advanced life support units, and in the hospital setting. Corequisites: PMD-2000, 2010, 2020, and 2030. 8 clinical hours.
PLANNING FOR ACADEMIC SUCCESS (PAS)
Academic Enrichment Department
Marlboro Hall, Room 2118 | 301-546-0495

PAS-1000  FIRST YEAR EXPERIENCE.  1 CREDIT
Assists incoming students in making a successful transition to college. Students will focus on those behaviors and attitudes that are needed to achieve academic success. Students are expected to take themselves and their academic pursuits seriously, engage in self-enhancing behaviors, accept responsibility for their own decisions and actions, and conduct themselves professionally. Strategies for time management, test taking, note taking, memory, retention, communication, and diversity will also be covered. It is recommended that students take PAS-1000 in their first semester if they are eligible. Prerequisite: DVR-0051 or equivalent placement test score.

PAS-1010  PLANNING FOR ACADEMIC SUCCESS.  3 CREDITS
An introduction to knowledge and strategies designed to promote success in the college environment. The course focuses on developing 1) interpersonal and self-management skills and attitudes and 2) critical thinking and study skills needed to achieve academic success. Students will acquire a working/practical knowledge of the college's resources, services, procedures, and requirements. Self-assessments serve as tools to identify values and goals for individual life planning and academic achievement. Corequisite: DVR-0061.

PAS-1030  PLANNING FOR ACADEMIC SUCCESS IN MATH.  1 CREDIT
Designed to introduce study skill strategies for success in mathematics. Encourages students to explore their feelings about math and to develop strategies to overcome math avoidance and manage anxiety. Emphasis will be placed on note-taking, critical thinking, preparing for, taking, and analyzing math tests. This course is open to students at all levels of mathematical skill. Corequisite: Must be taken with or prior to the first math course if placed into any DVM course or in MAT-0104 (formerly MAT-1040).

PHILOSOPHY (PHL)
Art, Music, and Philosophy Department
Bladen Hall, Room 310 | 301-546-0946

PHL-1010  INTRODUCTION TO PHILOSOPHY: THE ART OF QUESTIONING.  3 CREDITS  H
Asking and answering the basic and meaningful questions of life and clarifying one's thinking in relation to self, others, laws, nature, and God. Prerequisite: Reading proficiency. (Honors version available.)

PHL-1090  INTRODUCTION TO LOGIC.  3 CREDITS  H
The elements of logic; how to translate ordinary language into logical form and craft valid arguments. Prerequisite: Reading proficiency.

PHL-1150  LAW AND VALUES.  3 CREDITS
Course has been re-numbered. See PHL-2150.

PHL-1170  EASTERN PHILOSOPHY.  3 CREDITS
Eastern philosophical and religious thoughts and their influence on relationships between East and West. Prerequisite: Reading proficiency.

PHL-1190  PHILOSOPHIC IDEAS IN IMAGINATIVE LITERATURE.  3 CREDITS
Course has been re-numbered. See PHL-2190.

PHL-1270  THINKING ABOUT RELIGION.  3 CREDITS
Course has been re-numbered. See PHL-2270.

PHL-1330  ETHICS.  3 CREDITS  H
Involves personal decisions each individual makes daily. The course will identify the various ethical/moral theories that affect those decisions. It will involve current issues and concerns to strengthen a student’s own ethical deliberations and clarify how such deliberations may be applied to the student’s designated career interests. Prerequisite: Reading proficiency. (Honors version available.)

PHL-1350  BIOMEDICAL ETHICS.  3 CREDITS
Course has been re-numbered. See PHL-2350.
PHL-1370  PHILOSOPHY AND FEMINISM.  3 CREDITS
A philosophical exploration of the feminist perspective, its foundation and its ramifications. Prerequisite: Reading proficiency.

PHL-1400  INTRODUCTION TO BUSINESS ETHICS.  3 CREDITS
Course has been re-numbered. See PHL-2400.

PHL-2150  LAW AND VALUES.  3 CREDITS
Analysis of today’s social, political and economic issues from the viewpoint of representative philosophers from Plato to the moderns. Prerequisite: EGL-1010, PHL-1010, PHL-1090, or PHL-1330, or permission of instructor. (Formerly PHL-1150. Students may not receive credit for both PHL-1150 and PHL-2150.)

PHL-2190  PHILOSOPHIC IDEAS IN IMAGINATIVE LITERATURE.  3 CREDITS
Philosophic ideas in creative writings from Shakespeare to Sartre and from Job to Tolstoy. Prerequisite: EGL-1010, PHL-1010, PHL-1090, or PHL-1330, or permission of instructor. (Formerly PHL-1190. Students may not receive credit for both PHL-1190 and PHL-2190.)

PHL-2220  METAPHYSICS.  3 CREDITS
Exploration of the basic criteria for determining what is real; the sensible versus the supersensible; the tangible versus the nonphysical; the concrete versus the abstract. Prerequisite: Reading proficiency.

PHL-2270  THINKING ABOUT RELIGION.  3 CREDITS
Philosophical foundations of religious thought and the response of humanity to religious claims. Prerequisite: EGL-1010, PHL-1010, PHL-1090, or PHL-1330, or permission of instructor. (Formerly PHL-1270. Students may not receive credit for both PHL-1270 and PHL-2270.)

PHL-2350  BIOMEDICAL ETHICS.  3 CREDITS
An examination and application of the ethical principles involved in biomedical decisions such as stem-cell research, termination of treatment, genetic manipulation, and informed consent. Prerequisite: EGL-1010, PHL-1010, PHL-1090, or PHL-1330, or permission of instructor. (Formerly PHL-1350. Students may not receive credit for both PHL-1350 and PHL-2350.)

PHL-2400  INTRODUCTION TO BUSINESS ETHICS.  3 CREDITS
Examination of ethical issues of the business world, including health on the job, consumerism, ecology and advertising. Prerequisite: EGL-1010, PHL-1010, PHL-1090, or PHL-1330, or permission of instructor. (Formerly PHL-1400. Students may not receive credit for both PHL-1400 and PHL-2400.)

PHL-2890H  HONORS COLLOQUIUM IN PHILOSOPHY.  3 CREDITS
This honors colloquium will examine special topics in the field of philosophy and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

PHYSICAL EDUCATION (PED)
Health, Nutrition, and Physical Education Department
Novak Field House, Room 104 | 301-546-0504

PED-1000  LIFETIME FITNESS AND LEISURE ACTIVITIES.  1 CREDIT
Develops basic skill level in selected activities. These courses are one credit and can be used in combination with PED-1030 to transfer to other institutions. These courses meet for half a semester or are late starting. Activities include aerobic workout, basketball, baseball, swimming, weight training, and combination activities. 1 class/2 lab hours.

PED-1030  LIFETIME FITNESS AND LEISURE ACTIVITIES.  2 CREDITS
Develops athletic abilities from beginner through intermediate skill levels; explores how to experience wellness and stay active throughout one’s life. Class also includes lectures and textbook information to help students stay healthier through the understanding of total wellness.

Weight Training:
• Circuit Weight Training—a series of strength and aerobic exercises using various weight machines and stationary cycles
• Weight Training and Conditioning—weight training programs designed for the individual student
• Weight Training and Water Workout—a combination of weight training and water exercise
Sports: Baseball, Basketball, Bowling, Golf, Karate, Racquetball and Tennis. Courses are designed to introduce beginner and intermediate students to the skills, theories, fundamentals, strategies, etiquette, and safety considerations of these activities.

Aerobic Base: Step Aerobics for beginning and intermediate students. Activities include other aerobic activities, muscle toning, use of hand weights, and nutritional information. Cardio Kickboxing, Aerobic Dance, and Cardio Fitness are classes with an emphasis on cardiorespiratory endurance.

Swimming: Beginner, intermediate, and advanced swimming classes are offered. Courses include instruction on strokes, skills, and water safety. Water exercise classes include water workout, aquatics, and a combination class that includes weight training and water workout. Classes are taught in shallow water as well as deep water. Ability to swim is not necessary; buoyancy belts are provided for individuals on request.

Social Dance:
- Ballroom I—Basic skills associated with leading and following are introduced. Dances include Foxtrot, Waltz, Swing, Cha-Cha, and Merengue.
- Ballroom II—More advanced figures in dances than level I. Dances include the Tango, Rhumba, Polka, Mambo, and Disco.
- Country Western—Basic steps are introduced for the Texas two-step, Country Waltz, Shuffle, and Cha-Cha. Various line and circle dances are also introduced.
- Hand Dancing—Basic steps are introduced, turns, start, release and not release turns, wraps, swings, along with history and etiquette.

Other classes available: Bowling, Walking, and Hiking.

PED-1110 INTRODUCTION TO PHYSICAL EDUCATION. 2 CREDITS
Physical education as a profession, including its history, opportunities, and education requirements. Includes field trips and other experiences. (Offered fall only.)

PED-1130 RHYTHMIC ACTIVITIES. 2 CREDITS
This course is for elementary teachers, physical education teachers and recreation leaders. It includes rhythmic skills for all age levels, including folk and square dancing. (Offered spring only.)

PED-1530-1810 SKILLS LABORATORIES. 1 CREDIT EACH
Basic skills and techniques in sport and physical activities for physical education majors. Recommended for youth league coaches. 3 lab hours.
- PED-1570 Swimming
- PED-1670 Basketball
- PED-1730 Tennis
- PED-1790 Golf
- PED-1810 Weight Training/Physical Fitness

PED-2400 ACE PERSONAL TRAINER. 3 CREDITS
Encompasses theoretical knowledge and practical skills to prepare individuals interested in personal training. Topics include guidelines for instructing safe and effective exercise, essentials of client/trainer relationships, designing and implementing appropriate exercise programs. This course reviews material that prepares students to take the American Council for Exercise (ACE) Examination. Successful completion of this exam is required for certification. 2 lecture/2 lab hours.

PED-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

PHYSICAL SCIENCE (PSC)
Physical Sciences and Engineering Department
Chesapeake Hall, Room 100 | 301-546-0420

PSC-1010 INTRODUCTION TO ASTRONOMY. 3 CREDITS SC
For nonscience majors. Introduction to the extraterrestrial environment, including astronomical concepts and theories. Prerequisite: Reading proficiency. (Honors version available.)

PSC-1020 INTRODUCTION TO ASTRONOMY LABORATORY. 1 CREDIT SC
Laboratory experience in astronomy, including astronomical observations and techniques for studying spectra, planetary characteristics, stars and galaxies. Prerequisites: PSC-1010 completed or concurrent and Reading proficiency. 2 lab hours.

PSC-1050 INTRODUCTION TO PHYSICAL GEOLOGY. 3 CREDITS SC
Processes and forces involved in the evolution of the Earth, morphology and composition and evaluation of geologic hazards. Prerequisite: Reading proficiency.
PSC-1060  PHYSICAL GEOLOGY LABORATORY.  1 CREDIT  SC
Rock and mineral identification and analysis and interpretation of geologic and topographic maps and aerial photographs. Prerequisites: PSC-1050 completed or concurrent and Reading proficiency. 2 lab hours.

PSC-1200  EXPLORING CHEMISTRY AND PHYSICS CONCEPTS.  4 CREDITS  SC
Hands-on activity-based course is for students who plan to teach preschool through grade eight. Content is based on topics recommended by National Science Education Content Standards and the K–8 Science Outcomes document of Prince George’s County Public Schools. Emphasis is on building process skills and content understanding using a constructivist-based teaching methodology. Prerequisite: Reading proficiency. 3 class/2 lab hours.

PSC-1210  EXPLORING EARTH AND SPACE SCIENCE CONCEPTS.  4 CREDITS  SC
Hands-on activity-based course covering topics in earth and space sciences for students who plan to teach preschool through grade eight. Content is based on topics recommended by National Science Education Content Standards and the K–8 Science Outcomes document of Prince George’s County Public Schools. Emphasis is on building process skills and content understanding using a constructivist-based teaching methodology. Prerequisite: Reading proficiency. 3 class/2 lab hours.

PSC-2890H  HONORS COLLOQUIUM IN PHYSICAL SCIENCES.  3 CREDITS
This honors colloquium will examine special topics in the field of physical science and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of the instructor or honors coordinator.

PSC-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

PHYSICS (PHY)
Physical Sciences and Engineering Department
Chesapeake Hall, Room 100 | 301-546-0420

PHY-1010  INTRODUCTORY PHYSICS I.  4 CREDITS  SC
Fundamental concepts and basic laws of mechanics, heat, and thermodynamics using a noncalculus approach. Not recommended for science/engineering majors. Prerequisite: MAT-1350 with grade of C or higher; EGL-1010 completed or concurrent. 3 class/1 rec/2 lab hours.

PHY-1020  INTRODUCTORY PHYSICS II.  4 CREDITS
Fundamental concepts of vibration and sound, electricity and magnetism, optics, and modern physics. Prerequisite: PHY-1010. 3 class/1 rec/2 lab hours. (Offered spring only.)

PHY-1030  GENERAL PHYSICS I.  3 CREDITS  SC
First semester of three-semester sequence (PHY-1030/2030/2040) for science/engineering transfer students. Calculus-based study of classical mechanics, including laws of motion, force, energy, momentum, and gravitation. Prerequisites: MAT-2410; MAT-2420 completed or concurrent. 3 class/1 rec hours.

PHY-1570  TECHNICAL PHYSICS FOR ENGINEERING TECHNOLOGY.  4 CREDITS  SC
Concepts of energy and waves applied to sound, light, electricity, and magnetism. For transfer to Engineering Technology program only. Prerequisite: MAT-1340 completed or concurrent. 3 class/3 lab hours.

PHY-2030  GENERAL PHYSICS II.  4 CREDITS
Calculus-based survey of kinetic theory, thermodynamics, electricity, and magnetism and electromagnetic phenomena. For science/engineering transfers. Prerequisites: PHY-1030 and MAT-2420. 3 class/1 rec/3 lab hours.

PHY-2040  GENERAL PHYSICS III.  4 CREDITS
Calculus-based survey of simple harmonic motion, mechanical and electromagnetic waves, optics, relativity, and modern physics. For science/engineering transfers. Prerequisite: PHY-2030. 3 class/1 rec/3 lab hours.

PHY-2890H  HONORS COLLOQUIUM IN PHYSICS.  3 CREDITS
This honors colloquium will examine special topics in the field of physics and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program but are open to others.
with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

**PHY-2910–2930 INDEPENDENT RESEARCH. 1–2 CREDITS**
A maximum of six credits of cooperative education, research and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Physics Department for more complete information.

**PHY-2930 COOPERATIVE EDUCATION. 3 CREDITS**
A maximum of six credits of cooperative education, research and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

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**POLITICAL SCIENCE (POS)**
History, Political Science, Geography, and Anthropology Department | Marlboro Hall, Room 2018 | 301-546-0527

**POS-1000 INTRODUCTION TO POLITICS. 3 CREDITS SS**
Introduction to terms, concepts, and theories of political science and their application to law, politics, and government. Prerequisite: Reading proficiency.

**POS-1010 AMERICAN NATIONAL GOVERNMENT. 3 CREDITS SS**
A study of the Constitution and the American political system, including how power and authority are acquired and applied. Emphasis will be placed on the Congress, the Presidency, and the Supreme Court, as well as on voting dynamics, political parties, interest groups, public opinion, and the media. Prerequisite: Reading proficiency. (Honors version available.)

**POS-1020 STATE AND LOCAL GOVERNMENT. 3 CREDITS SS**
Function, role, and responsibilities of state and local governments with emphasis on Maryland and Prince George’s County. Prerequisite: Reading proficiency.

**POS-1400 INTRODUCTION TO ENVIRONMENTAL POLICY. 3 CREDITS**
Provides an overview of the topics studied and methods employed in environmental policy, focusing on the process of formulating, implementing, and evaluating policy responses to environmental problems. Emphasis is given to policy controversies related to scientific uncertainty, risk assessment, resource distribution, and bioethical issues. Prerequisite: BIO-1110.

**POS-2010 POLITICAL IDEOLOGIES. 3 CREDITS**
Survey of prominent political ideologies influencing 20th century history and politics: nationalism, socialism, communism, fascism, and democracy. Prerequisite: Reading proficiency. (Offered fall only.)

**POS-2070 INTRODUCTION TO INTERNATIONAL POLITICS. 3 CREDITS**
Analysis of major factors influencing world politics and the conduct of foreign policy. Prerequisite: Reading proficiency. (Offered spring only.)

**POS-2150 INTRODUCTION TO COMPARATIVE POLITICS AND GOVERNMENT. 3 CREDITS**
This course is an introduction to the comparative study of how different polities approach problems of government and governing. Focus will be placed on comparing and contrasting three models of government, democracies, communist regimes, and developing nations. Prerequisite: Reading proficiency. (Offered fall only.) (Honors version available.)

**POS-2890H HONORS COLLOQUIUM IN POLITICAL SCIENCE. 3 CREDITS**
Team-taught by political science and psychology professors, this colloquium will examine the phenomenon of leadership by focusing primarily on the scholarship and analysis of several modern approaches. Leadership theories of Harvard psychologist Howard Gardner provide the framework for comparing leaders in a variety of fields. Political scientist James McGregor Burns’s psycho-political paradigm of transforming leadership will be used to examine such leaders as Queen Elizabeth I, Gandhi, Franklin and Eleanor Roosevelt, Martin Luther King, and Mikhail Gorbachev, all major contributors to political, military, scientific, and cultural aspects of our society. Prerequisites: Minimum score of 95 of the college’s placement exam, 3.00 cumulative GPA, and permission of the instructors or the Honors program coordinator.

**POS-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS**
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.
PSYCHOLOGY (PSY)
Psychological and Sociological Sciences Department
Marlboro Hall, Room 2054 | 301-546-0525

PSY-1010  GENERAL PSYCHOLOGY.  3 CREDITS  SS
University-parallel introductory course which surveys the
field of psychology, including the study of behavior, cognitive
processes, the concepts of memory, perception and sensa-
tion, consciousness, personality development, psychological
disorders, psychotherapy, and social behavior. Prerequisite:
Reading proficiency level. (Honors version available.)

PSY-1150  DEATH AND DYING.  3 CREDITS
Historical and current concepts of death and dying, includ-
ing implications of euthanasia and suicide. Prerequisite:
Reading proficiency.

PSY-2010  PERSONALITY AND ADJUSTMENT.  3 CREDITS  SS
Theories of personality and personality development, per-
sonal adjustment and mental health. Prerequisite: PSY-1010.
(Honors version available.)

PSY-2020  INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY.
3 CREDITS
Provides an overview of Industrial/Organizational Psychology.
Sometimes called the “psychology of work,” it is an applied
science that uses psychological theories, applications and
concepts to identify issues relevant to individual, group, and
organizational issues. Those issues include, but are not limited
to: job decisions, work motivation, work attitudes, leadership,
and occupational health. The ultimate objective of this disci-
pline is to maximize both employee well-being and organiza-
tional effectiveness. Prerequisite: PSY-1010. (Formerly offered
as PSY-2980 Industrial and Organizational Psychology and as
PSY-2250, Business Psychology. Students may receive credit
for only one of these three courses: PSY-2020, PSY-2980,
PSY-2250.)

PSY-2030  CHILD PSYCHOLOGY.  3 CREDITS  SS
Physical, cognitive, social, emotional, and moral development
of the child from conception until adolescence. Prerequisite:
PSY-1010.

PSY-2040  ADOLESCENT PSYCHOLOGY.  3 CREDITS  SS
Physical, cognitive, social, emotional, and moral development
of the adolescent, including discussion of different phases of
adolescence. Prerequisite: PSY-1010.

PSY-2060  EDUCATIONAL PSYCHOLOGY.  3 CREDITS
Focus on the processes and theories of learning, individual
differences, measurement, motivation, emotions and problem
solving, as well as thinking and communication in educational
settings. Prerequisite: PSY-1010. A.A.T. students should take
this course with TED-2061 (formerly EDU-2350).

PSY-2070  HUMAN GROWTH AND DEVELOPMENT.
3 CREDITS  SS
Life-span psychology covers the physical, cognitive, social,
emotional, and moral development of the individual from
conception until death. Prerequisite: PSY-1010. (Honors
version available.)

PSY-2080  ABNORMAL PSYCHOLOGY.  3 CREDITS  SS
Focus on human behaviors and mental experiences that are
unusual, unreasonable, and distinct from cultural norms.
Appropriate psychotherapeutic interventions as well as
changing views of mental disorders are considered.
Prerequisite: PSY-1010. (Honors version available.)

PSY-2090  THE PSYCHOLOGY OF AGING.  3 CREDITS
The biological, psychological, historical and cultural aspects
of aging are presented in a multidisciplinary approach.
Diversities in the aging experience are discussed. Prerequisite:
PSY-1010.

PSY-2100  PSYCHOLOGY OF WOMEN.  3 CREDITS
An introductory course focusing on developmental, eco-
logical, psychological and gender issues relevant to women.
Prerequisite: PSY-1010.

PSY-2110  PSYCHOLOGY AND AFRICAN-AMERICANS.
3 CREDITS
Examines the psychology of African-Americans from Afro-
centric, historical, behavioral, developmental, and humanis-
tic perspectives. Prerequisite: PSY-1010.

PSY-2120  DRUGS AND BEHAVIOR.  3 CREDITS
Overview of the use of psychotropic drugs, including abused
drugs as well as those used to treat mental disorders. Topics
include legal and scientific issues relating to psychopharma-
cology, as well as its historical context. Treatment, law en-
forcement, and educational perspectives are also considered.
Prerequisite: PSY-1010.
PSY-2130  FORENSIC PSYCHOLOGY.  3 CREDITS  SS
Introduces concepts that unite psychology and the law and reviews statutes governing competency, insanity, and involuntary commitment. Students will become acquainted with forensic assessment techniques, including the interview process, specialized training, and the collection of collateral information. Also considered are the assessments of competency to stand trial, criminal responsibility, and dangerousness. Pre-sentencing and child custody evaluations are discussed as well. Prerequisite: PSY-1010.

PSY-2190  SOCIAL PSYCHOLOGY.  3 CREDITS  SS
Covers predominant theories and research strategies, focusing on social cognition, including beliefs, judgments, behaviors and attitudes; social influence, including conformity, persuasion and group influence; and social relations, including the theories and research on aggression, prejudice, attraction and intimacy, altruism, conflict, and peacemaking. Prerequisite: PSY-1010.

PSY-2200  INTRODUCTION TO SPORT AND EXERCISE PSYCHOLOGY.  3 CREDITS
Introduces the principles of psychology as they apply to sport and exercise, including ethics and problems in research methodology, motivation, learning, social behavior, performance enhancement, youth sports, gender issues, leadership, and exercise issues. Multicultural and international views of the field are also considered. Prerequisite: PSY-1010.

PSY-2210  INTRODUCTION TO HEALTH PSYCHOLOGY.  3 CREDITS
Examines the research, theory and practice of health psychology. Focuses on the role lifestyle, diet, activity level, and behavior play in the maintenance of health and in the etiology, treatment, and prevention of disease. In particular, cultural issues related to health will be examined. Prerequisite: PSY-1010.

PSY-2890H  HONORS COLLOQUIUM IN PSYCHOLOGY—SPECIAL TOPIC: POLITICAL AND PSYCHOLOGICAL PERSPECTIVE ON LEADERSHIP.  3 CREDITS
Team-taught by political science and psychology professors, this colloquium will examine the phenomenon of leadership by focusing primarily on the scholarship and analysis of several modern approaches. Leadership theories of Harvard psychologist Howard Gardner provide the framework for comparing leaders in a variety of fields. Political scientist James McGregor Burns's psycho-political paradigm of transforming leadership will be used to examine such leaders as Queen Elizabeth I, Gandhi, Franklin and Eleanor Roosevelt, Martin Luther King, and Mikhail Gorbachev, all major contributors to political, military, scientific, and cultural aspects of our society. Prerequisites: Minimum score of 95 of the college's placement exam, 3.00 cumulative GPA, and permission of the instructors or the Honors program coordinator.

PSY-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

PUBLIC RELATIONS AND JOURNALISM (PRJ)
Communication and Theatre Department
Queen Anne Fine Arts, Room 113 | 301-546-0926

PRJ-1210  PUBLIC RELATIONS TECHNIQUES.  3 CREDITS
Exploration of techniques used in public relations message planning, designing, and dissemination. Formerly offered as SPH-1210. Students may not receive credit for both SPH-1210 and PRJ-1210. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/2 lab hours.

PRJ-2000  NEWS WRITING FOR PUBLIC RELATIONS.  3 CREDITS
Explores the practices, principles, and techniques of news writing for public relations practitioners. Provides instruction on how to write a lead, bridge, and body of the hard news story, and introduces the basic structures most commonly used in news writing. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

PRJ-2210  INTRODUCTION TO COMMUNICATION THEORY.  3 CREDITS
Designed to provide students with an introduction to the field of communication studies. Specifically, it introduces students to the study of communication theory and provides them with the conceptual and theoretical foundation needed to succeed as communication scholars. Concepts and theories learned in this course will be studied in greater detail in the upper level courses required for this major. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.
RADIOGRAPHY (RAD)
Allied Health Department
Center for Health Studies, Room 1402 | 301-546-0733
RAD courses are offered in fall, spring, and summer sessions. The program admits a new group of students every fall semester. A minimum grade of C or higher must be achieved in all prerequisites and core courses to enter and remain in the program. The course content within the Radiography Program is divided into the following modules:

Module I: Radiation Protection
Module II: Equipment Operation and Quality Control
Module III: Image Production and Evaluation
Module IV: Radiographic Procedures
Module V: Patient Care and Education
Module VI: Clinical Radiography

Each course encompasses a combination of modules designed to develop and expand the didactic and clinical knowledge base of radiography.

RAD-1410 RADIOGRAPHIC PROCEDURES I. 3 CREDITS
Introduction to standard terminology and general and patient considerations from routine radiographic positioning and projections. Responsibilities of the radiographer for radiation protection of patients, personnel and the public are discussed. Emphasis is on radiographic procedures of the upper extremity and shoulder girdle, lower extremity, thorax, and abdomen incorporating related pathology and consideration of mobile, surgical, pediatric, and geriatric patients. Prerequisites for program admission: EGL-1010, MAT-1120, and BIO-2050; RAD-1510 and 1530 concurrent; BIO-2060, EGL-1020 and HIM-1800 completed or concurrent. 2 lecture/3 lab hours. (Offered fall only.)

RAD-1420 RADIOGRAPHIC PROCEDURES II. 3 CREDITS
Emphasis is on radiographic procedures of the bony thorax, vertebral column, pelvis, and gastrointestinal system incorporating related pathology and consideration of mobile, surgical, pediatric, and geriatric patients. Image intensified fluoroscopic equipment and use of contrast media is included in course content. Special focus on surgical radiography. This course expands upon course content of RAD-1410, to include application of radiation protection, equipment operation and quality control, image production and evaluation, and patient care and education. Prerequisites: RAD-1410, 1510, and 1530; RAD-1500 and 1540 concurrent. 2 lecture/3 lab hours. (Offered spring only.)

RAD-1430 RADIATION BIOLOGY AND PROTECTION. 3 CREDITS
Course has been re-numbered. See RAD-2440.

RAD-1500 IMAGE PRODUCTION AND IMAGING EQUIPMENT I. 3 CREDITS
Introduction to radiographic imaging systems to include the X-ray tube, operating console, and high-voltage generator. X-ray production, interactions of x-radiation with matter, and radiographic image formation are explored. Controlling and influencing factors of radiographic image quality are studied in depth. This course prepares students for proper use of radiographic equipment to produce and evaluate diagnostic radiographic images in the clinical setting. Prerequisites: RAD-1410, 1510, and 1530; RAD-1420 and 1540 concurrent. (Offered spring only.)

RAD-1510 PATIENT CARE AND EDUCATION I. 2 CREDITS
Introduction to principles of patient care as preparation for interactions in the clinical education setting. Focus on responsibilities to patients, peers and the profession to include professional, medicolegal, and ethical issues. Infection control, aseptic techniques, vital signs, medical emergencies, and pharmacology are included. Consideration of human diversity and cultural implications associated with health care. Includes medical terminology. Prerequisites for program admission: MAT-1120, EGL-1010, and BIO-2050; RAD-1410 and RAD-1530 concurrent; BIO-2060, EGL-1020, and HIM-1800 completed or concurrent. 3 class/3 lab hours/8 weeks. (Offered fall only.)

RAD-1530 CLINICAL RADIOGRAPHY I. 2 CREDITS
First course in the clinical education component of the program. Supervised, competency-based clinical education with emphasis on application of comprehensive didactic knowledge in clinical practice. Emphasis on radiographic procedures of the upper extremity and shoulder girdle, lower extremity, thorax, and abdomen. Prerequisites for program admission: MAT-1120, EGL-1010, and BIO-2050; RAD-1410 and 1510 concurrent; BIO-2060 and HIM-1800 completed or concurrent. 2 days/8 hours/8 weeks. (Offered fall only.)

RAD-1540 CLINICAL RADIOGRAPHY II. 4 CREDITS
Second course in the clinical education component of the program. Expands upon knowledge and skills from previous clinical education courses. Supervised, competency-based clinical education with emphasis on application of comprehensive didactic knowledge and demonstration of proficiency
in clinical practice. Emphasis on radiographic procedures of the bony thorax, pelvis, vertebral column, and gastrointestinal system. Prerequisites: RAD-1410, 1510, 1530; RAD-1420 and 1500 concurrent. 2 days/8 hours. (Offered spring only.)

**RAD-1550 CLINICAL RADIOGRAPHY III.** 4 CREDITS
Third course in the clinical education component of the program. Expands upon knowledge and skills from previous clinical education courses. Supervised, competency-based clinical education with emphasis on application of comprehensive didactic knowledge and demonstration of proficiency in clinical practice. Emphasis on radiographic procedures covered during RAD-1410 and RAD-1420. Prerequisite: RAD-1420, 1540, and 1500. 4 days/8 hours. (Offered summer only.)

**RAD-1580 IMAGE PRODUCTION AND IMAGING EQUIPMENT II.** 3 CREDITS.
Course has been re-numbered. See RAD-2580.

**RAD-2410 RADIOGRAPHIC PROCEDURES III.** 3 CREDITS
Emphasis on radiographic procedures of the cranium, computed tomography, cross-sectional anatomy, and special contrast procedures. Includes consideration of mobile, surgical, pediatric and geriatric patients, incorporating related pathology. Expanded study of pediatric, trauma and mobile and surgical radiography from previous semesters. This course expands upon course content of RAD-1420, to include application of radiation protection, equipment operation and quality control, image production and evaluation, and patient care and education. Prerequisites: RAD-1550; RAD-2410 and 2580 concurrent. 2 lecture/3 lab hours. (Offered fall only.)

**RAD-2420 RADIOGRAPHIC PROCEDURES IV.** 3 CREDITS
The culmination of studies in radiographic procedures to include additional imaging modalities, patient care techniques, and professional growth and development. This course expands upon course content of RAD-2410, to include application of radiation protection, equipment operation and quality control, image production and evaluation, and patient care and education. Emphasis is placed on preparation for the ARRT certifying examination and skills related to resume writing and seeking an entry-level position in the field of radiography. Prerequisites: RAD-2410, 2530, and 2580; RAD-2440 and 2540 concurrent. 2 lecture/3 lab hours. (Offered spring only.)

**RAD-2440 RADIATION BIOLOGY AND PROTECTION.** 3 CREDITS
Interactions of radiation with matter and biological effects associated with the use of ionizing radiation are presented. Focus is on radiation safety of patients and personnel based on the ALARA concept NCRP recommendations and NRC and COMAR regulations. Health implications to present and future generations, radiosensitivity and manifestation and treatment of radiation sickness are discussed. (Formerly RAD-1430. Students may not receive credit for both RAD-1430 and RAD-2440.) Prerequisites: RAD-2410, 2530 and 2580; RAD-2420 and 2540 concurrent. (Offered spring only.)

**RAD-2530 CLINICAL RADIOGRAPHY IV.** 4 CREDITS
Fourth course in the clinical education component of the program. Expands upon the knowledge and skills from previous clinical education courses. Supervised, competency-based clinical education with emphasis on application of comprehensive didactic knowledge and demonstration of proficiency in clinical practice. Emphasis on cranial and pediatric radiography. Re-enforcement of application of radiation protection, equipment operation and quality control, image production and evaluation, patient care and education. Prerequisites: RAD-1550; RAD-2410 and 2580 concurrent. 2 days/8 hours. (Offered fall only.)

**RAD-2540 CLINICAL RADIOGRAPHY V.** 4 CREDITS
Final course in the clinical education component of the program. Expands upon knowledge and skills from previous clinical education courses. Supervised, competency-based clinical education with emphasis on application of comprehensive didactic knowledge and demonstration of proficiency in clinical practice. This course serves as the culminating experience for the program, ensuring that graduates are prepared for entry-level positions in the field of radiography. Prerequisites: RAD-2410, 2530, and 2580; RAD-2420 and 2440 concurrent. Capstone Course: Students must complete a minimum of 51 credits, including all prerequisite courses, prior to enrolling in this course. 2 days/8 hours. (Offered spring only.)
RAD-2580  IMAGE PRODUCTION AND IMAGING EQUIPMENT II. 3 CREDITS
Continuation of RAD-1500, exploring radiographic imaging systems in greater depth to include digital radiography. Quality control of radiographic equipment and analysis of common equipment malfunctions are expanded upon. Image acquisition and processing with both film/screen and digital radiography systems are included. (Formerly offered as RAD-1580. Students may not receive credit for both RAD-1580 and RAD-2580.) Prerequisites: RAD-1550; RAD-2410 and 2530 concurrent. (Offered fall only.)

RAD-2950  CROSS SECTIoNAL ANATOMy. 3 CREDITS
This course is a comprehensive review of all anatomical body systems in cross section as it relates to sectional imaging modalities such as computed tomography and magnetic resonance imaging. Course content includes a review of anatomical landmarks, a comparison of normal versus abnormal anatomy, and pathological processes. Prerequisite: Certification or eligibility in appropriate supporting discipline or permission of the Radiography Program director.

RAD-2960  COMPUTED ToMoGRAPHY. 3 CREDITS
Advanced modality course providing students with knowledge in patient care, radiation safety and dosimetry, general and special imaging procedures, physics and instrumentation, and quality assurance as they prepare for the American Registry of Radiologic Technologists (ARRT) certification exam in Computed Tomography. Prerequisites: ARRT certification in the appropriate supporting discipline; RAD-2950 within the past two years with a grade of C or higher or permission of the Radiography Program director. (Offered fall and spring.)

RAD-2980  MAGNeTIC rEsONAnCE IMAGInG. 3 CREDITS
Advanced modality course providing students with knowledge in patient care, radiation safety and dosimetry, general and special imaging procedures, physics and instrumentation, and quality assurances as they prepare the American Registry of Radiologic Technologists (ARRT) certification exam in MRI. Prerequisites: ARRT certification in the appropriate supporting discipline; RAD-2950 within the past two years with a grade of C or higher or permission of Radiography Program director. (Offered fall and spring.)

RAD-2990  CLINICAl MAGNeTIC rEsONAnCE IMAGInG. 2 CREDITS
Designed for those students who want to transfer their didactic knowledge to the clinical setting. Students will work under the supervision of registered MR technologists and board-certified radiologists as they perform MR examinations. Provides a base for completing competency requirements for the ARRT examination. All students are required to submit to a criminal background check and drug screen and to provide documentation of current health assessment and CPR certification prior to clinical placement. Students will be required to complete mandatory clinical site safety and infection control training prior to beginning clinical education. Students will be required to purchase a subscription for a web-based clinical record documentation platform. Prerequisite: RAD-2950 or permission of Radiography Program director and RAD-2980 within the past two years with grade of C or higher.
RESPIRATORY THERAPY (RST)
Allied Health Department
Center for Health Studies, Room 1402 | 301-546-0733

RST courses are offered once per year in the fall, spring, and summer sessions I and II. A grade of C or higher must be maintained in all prerequisites, program courses, and required science courses.

RST-1531 PRINCIPLES AND PRACTICE OF RESPIRATORY THERAPY. 4 CREDITS
Introduction to the fundamentals of patient assessment. This course provides an in-depth study of all respiratory therapy modalities of care utilized in general respiratory care practice including the basics of airway management. Labs are designed to teach the student how to develop good patient communication skills; to learn the function, capabilities and limitations of respiratory therapy equipment; to allow the student to acquire, perfect and apply the skills necessary to deliver optimum patient care in the clinical setting. Prerequisites: Admission to RST program and completion of BIO-2050, EGL-1010 and MAT-1120 (MAT-1350 or higher recommended); RST-1570 concurrent. 3 class/3 lab hours. (Offered fall only.)

RST-1570 PRINCIPLES OF CARDIOPULMONARY PHYSIOLOGY. 4 CREDITS
Anatomy and physiology of the cardiopulmonary system with emphasis on developing very precise and in-depth understanding of ventilation-perfusion, oxygen and carbon dioxide transport, acid-base balance, and chemical control of breathing. Prerequisites: BIO-2050, EGL-1010, MAT-1120, and RST-1531 concurrent. (Offered fall only.)

RST-1600 PRINCIPLES OF VENTILATORY DISEASES. 3 CREDITS
Designed to present the theoretical principles associated with the pathophysiology of cardiopulmonary disease entities, this course will cover obstructive and restrictive lung diseases with emphasis on assessment, evaluation, treatment, and management protocols for the respiratory care practitioner. Prerequisites: RST-1531 and 1570 with grades of C or higher; RST-1631 and 1741 concurrent. (Offered spring only.)

RST-1631 CLINICAL PRACTICE IN RESPIRATORY THERAPY I. 2 CREDITS
First clinical practicum with emphasis on applying cardiopulmonary physiology and principles of diseases for the assessment, evaluation and delivery of respiratory therapy procedures in general respiratory care. Prerequisites: RST-1531 and 1570; RST-1600 and 1741 concurrent. 8 clinical hours. (Offered spring only.)

RST-1730 CLINICAL PRACTICE IN RESPIRATORY THERAPY II. 2 CREDITS
Continued clinical practicum with emphasis on applying cardiopulmonary physiology and principles of diseases for the assessment and evaluation of procedures in general respiratory care. The student’s progress in the general care setting will be evaluated with the goal of introducing the student to the critical care setting during the latter part of this clinical rotation if demonstrated clinical skills in the general care setting are at the expected standard. Prerequisites: RST-1600, 1631, and 1741 with grades of C or higher. 16 clinical hours per week. (Offered summer only.)

RST-1741 PRINCIPLES OF MECHANICAL VENTILATION AND INTRODUCTION TO CRITICAL CARE. 6 CREDITS
Familiarizes students with concepts of both non-invasive and invasive mechanical ventilation and their application to patients in the intensive care setting. This will include but not be limited to: ventilator operating principles; physiological mechanics of compliance and resistance; flow patterns and pressure curves; PEEP therapy; pressure and volume modes of ventilation; set up and troubleshooting techniques using a variety of mechanical ventilators. Prerequisite: RST-1531 and 1570; Corequisites: RST-1600 and 1631. 4 class/6 lab hours. (Offered spring only.)

RST-2490 NEONATAL AND PEDIATRIC RESPIRATORY CARE. 3 CREDITS
Designed to prepare students with theoretical understanding of fetal cardiopulmonary development, disease states specific to neonatal and pediatric patients, as well as implementation of physical assessment and adaptation of respiratory care modalities to meet the needs of these unique groups of critically ill patients. Preparation for student entry into the neonatal/pediatric critical care clinical rotation. Open to second-year respiratory therapy students. Prerequisites: RST-1730 with grade of C or higher; RST-2500 and 2530 concurrent. 2 lecture/3 lab hours. (Offered fall only.)
RST-2500  PHARMACOLOGY FOR RESPIRATORY THERAPY.  
3 CREDITS  
Describes classification of drugs as they relate to all organ systems with pertinent review of anatomy and physiology. Included are concepts of pharmacology of analgesics, cardiovascular drugs, anesthetics, and all drugs utilized in the practice of respiratory therapy. Includes EKG interpretation and ACLS preparation. Prerequisites: RST-1730 with a grade of C or higher; RST-2490 and 2530 concurrent. (Offered fall only.)

RST-2530  CLINICAL PRACTICE IN CRITICAL CARE I.  
4 CREDITS  
Provides supervised clinical application of the principles and procedures of continuous mechanical ventilation in the critical care setting. Directed practice will include assessment, evaluation, analysis and decision-making skills related to monitoring and management of the critically ill patient. Prerequisites: RST-1730 with a grade of C or higher; RST-2490 and 2500 concurrent. 16 clinical hours. (Offered fall only.)

RST-2620  TRENDS IN RESPIRATORY THERAPY.  
2 CREDITS  
Advanced principles of respiratory therapy with emphasis on critical care concepts. Computer-assisted instruction with clinical simulations enhance student learning and preparation for NBRC Board Examinations. Prerequisites: RST-2500, 2490, and 2530 with grades of C or higher; RST-2630 concurrent. (Offered spring only.)

RST-2630  CLINICAL PRACTICE IN CRITICAL CARE II.  
4 CREDITS  
Provides supervised clinical application of the principles and procedures of continuous mechanical ventilation in the critical care setting. Directed practice will include assessment, evaluation, analysis and decision-making skills related to monitoring and management of the critically ill patient. Prerequisites: RST-2500, 2530, and 2490 with grades of C or higher; RST-2620 concurrent. Capstone Course: Students must complete a minimum of 52 credits, including all prerequisite courses, prior to enrolling in this course. 16 clinical hours. (Offered spring only.)

SERVICE-LEARNING (SLN)  
Service-Learning Office  
Bladen Hall, Room 210 | 301-546-0713  
The Service-Learning Program encourages the development of civic responsibility through students’ participation in service projects within the community which support their academic objectives. Service-Learning at Prince George’s Community College is an academic component that can be integrated within the coursework of most disciplines and also is available as a separate independent credit course.

SLN-2010  SERVICE-LEARNING.  
1 CREDIT  
An independent volunteer experience of a minimum of 50 hours with a community organization that meets academic objectives within the student’s educational discipline. May be repeated for a combined total of six SLN Credits.

SLN-2020  SERVICE-LEARNING.  
2 CREDITS  
An independent volunteer experience of a minimum of 100 hours with a community organization that meets academic objectives within the student’s educational discipline. May be repeated for a combined total of six SLN Credits.

SLN-2030  SERVICE-LEARNING.  
3 CREDITS  
An independent volunteer experience of a minimum of 150 hours with a community organization that meets academic objectives within the student’s educational discipline. May be repeated for a combined total of six SLN Credits.

SOCIOLOGY (SOC)  
Psychological and Sociological Sciences Department  
Marlboro Hall, Room 2054 | 301-546-0525  
SOC-1010  INTRODUCTION TO SOCIOLOGY.  
3 CREDITS  
Survey of sociological concepts and their application to socialization, social organizations, and social change. Prerequisite: Reading proficiency. (Honors version available.)

SOC-1020  MARRIAGE AND FAMILY.  
3 CREDITS  
Course has been re-numbered. See SOC-2020.

SOC-1030  SOCIOLOGY OF FOOD.  
3 CREDITS  
Provides content-specific sociology course that would interest students in nursing, biological sciences, and food and hospitality. The growing ethnic diversity in the United States is implicated in the diet and health trends. The course will provide insights into the correlation between culture, lifestyles, food preparation and consumption, and health. Prerequisites: Reading and writing proficiencies.
**SOC-1150  SOCIOLOGY OF DEATH AND DYING.** 3 CREDITS
Survey course offering a broad overview of death and dying across cultures. Topics include the historical evolution of care and treatment of the dying and the dead; attitudes toward death; the understanding of and care for terminally ill patients; funeral rituals; burial, mourning and grief practices; grief counseling; and suicide and euthanasia. Prerequisites: Reading and writing proficiencies.

**SOC-2010  SOCIAL PROBLEMS.** 3 CREDITS  SS
Review of problems facing American society and their sociological implications, including theories of social deviance and social disorganization. Prerequisite: SOC-1010, PSY-1010, or POS-1010. (Honors version available.)

**SOC-2020  MARRIAGE AND FAMILY.** 3 CREDITS
Survey of modern marriage and family issues and related sociological trends in America. Prerequisite: SOC-1010, PSY-1010, or ANT-1030. (Formerly SOC-1020. Students may not receive credit for both SOC-1020 and SOC-2020.)

**SOC-2030  CRIMINOLOGY.** 3 CREDITS
Social and psychological concepts of criminal behavior and the chronic offender. Prerequisite: ANT-1010, SOC-1010, or PSY-1010.

**SOC-2040  INTRODUCTION TO SOCIAL WORK.** 3 CREDITS
Presentation of the ethics, value, knowledge and policy base, principles and purposes of the profession, including an examination of methods of practice. Traditional and innovative social work settings are discussed. Socio-historical development of social work and its influence on contemporary practice are reviewed. Prerequisite: SOC-1010 or PSY-1010 or POS-1010 or ANT-1010 with grade of C or higher.

**SOC-2090  THE SOCIOLOGY OF MINORITIES.** 3 CREDITS
Outlines the establishment, maintenance, and breakdown of dominant processes between ethnic, racial, and religious groups with emphasis on cross-cultural and cross-national patterns. Prerequisite: ANT-1030 or POS-1010 or SOC-1010 or PSY-1010.

**SOC-2400  INTRODUCTION TO PUBLIC HEALTH AND HEALTH CARE POLICY.** 3 CREDITS
An interdisciplinary course taught by leaders in the field focusing on the many areas contributing to public health and health policy. The intent is to heighten awareness of learners as both citizens and voters in understanding the importance of public health and health care policy development in the United States. Site visits to local and state health departments and government agencies will be included. Prerequisites: Reading proficiency and EGL-1010.

**SOC-2890H  HONORS COLLOQUIUM IN SOCIOLOGY.** 3 CREDITS
This honors colloquium will examine special topics in the field of sociology and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

**SOC-2910–2930  COOPERATIVE EDUCATION.** 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

**SPANISH (SPN)***

Language Studies Department
Bladen Hall, Room 309 | 301-546-0946
Spanish courses meet for 3 class hours and 1 additional lab hour per week or equivalent.

**SPN-1010  SPANISH FOR BEGINNERS.** 3 CREDITS  H
Introduction to the language (reading, writing, understanding, and speaking) and to the culture of Spain and the Hispanic countries. *Note: Not for native speakers.*

**SPN-1020  SPANISH FOR ADVANCED BEGINNERS.** 3 CREDITS  H
Continued development of Spanish language skills and cross-cultural understanding begun in SPN-1010. Prerequisite: SPN-1010 or two years of high school Spanish or equivalent. *Note: Not for native speakers.*
SPN-1030  ACCELERATED SPANISH FOR BEGINNERS.
4 CREDITS
Intensive review course that includes the material from the regular paced first semester (Spanish for Beginners) and second semester (Spanish for Advanced Beginners) classes and focuses on skills development in listening, speaking, reading, and writing Spanish, along with cultural elements from the Spanish-speaking world. Prerequisite: Two years of high school Spanish or equivalent, or permission of the department. Note: Not for native speakers.

SPN-2010  INTERMEDIATE SPANISH I. 3 CREDITS
Intermediate study of the Spanish language and culture building on the foundation of Spanish for Beginners. Prerequisite: SPN-1020 or three years of high school Spanish or equivalent. Note: Native/heritage speakers welcome.

SPN-2020  INTERMEDIATE SPANISH II. 3 CREDITS
Continuation of SPN-2010 with emphasis on the history and culture of Spain and Latin America. Prerequisite: SPN-2010 or four years of high school Spanish or equivalent. Native Spanish speakers welcome with permission of the department. Note: Native/heritage speakers welcome.

SPN-2040  ADVANCED CONVERSATION. 3 CREDITS
Advanced preparation for students who wish to develop fluency and confidence in speaking Spanish. Prerequisite: SPN-2010 or four years of high school Spanish or equivalent. Native Spanish speakers welcome with permission of the department. Note: Native/heritage speakers welcome.

SPEECH COMMUNICATION (SPH)
Communication and Theatre Department
Queen Anne Fine Arts, Room 113 | 301-546-0926

SPH-1010  INTRODUCTION TO SPEECH COMMUNICATION.
3 CREDITS
Oral communication theory and practice focusing on interpersonal, small group, and public speaking skills. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. (Honors version available.)

SPH-1030  ARGUMENTATION AND DEBATE. 3 CREDITS
Course has been re-numbered. See SPH-2030.

SPH-1030H  HONORS ARGUMENTATION AND DEBATE.
3 CREDITS
Course has been re-numbered. See SPH-2030H.

SPH-1050  GROUP COMMUNICATION AND LEADERSHIP.
3 CREDITS
Fundamentals of small group communication, including structuring of groups and extensive practice in group discussion and meeting management. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

SPH-1070  VOICE AND DICTION. 3 CREDITS
Course has been re-numbered. See SPH-2070.

SPH-1090  INTERPERSONAL COMMUNICATION. 3 CREDITS
Development of oral communication skills to enhance human interaction, including nonverbal and verbal language usage, listening, conflict management and multicultural communication. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. (Honors version available.)

SPH-1110  PUBLIC SPEAKING. 3 CREDITS
Development of public speaking skills. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

SPH-1130  INTERVIEWING. 3 CREDITS
Principles and procedures of interviewing, focusing on different types of interviews, their structures, and the roles of the interviewer and interviewee. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

SPH-1200  GENDER AND COMMUNICATION. 3 CREDITS
Course has been re-numbered. See SPH-2200.

SPH-1230  INTERCULTURAL COMMUNICATION. 3 CREDITS
Course has been re-numbered. See SPH-2230.

SPH-2030  ARGUMENTATION AND DEBATE. 3 CREDITS
Principles, preparation, and practice of oral argumentation and debate. Prerequisite: SPH-1010, 1050, 1090 or 1110 with grade of C or higher. (Formerly SPH-1030. Students may not receive credit for both SPH-1030 and SPH-2030.)
SPH-2030H  HONORS ARGUMENTATION AND DEBATE.  3 CREDITS
Principles, preparation, and practice of oral argumentation and debate. Prerequisite: SPH-1010, 1050, 1090, or 1110 with a grade of A or B. (Formerly SPH-1030H. Students may not receive credit for both SPH-1030H and SPH-2030H.)

SPH-2070  VOICE AND DICTION.  3 CREDITS
Development of vocal skills and articulation through the use of the International Phonetic Alphabet. Prerequisite: SPH-1010, 1050, 1090, or 1110 with grade of C or higher. (Formerly SPH-1070. Students may not receive credit for both SPH-1070 and SPH-2070.)

SPH-2090  ADVANCED INTERPERSONAL COMMUNICATION.  3 CREDITS
Provides an in-depth understanding of human communication and social media theories from personal, cultural, social, and organizational perspectives. Designed to help students develop flexibility and competence in their communication skills while using social media, and to better understand the advantages/disadvantages of social media in their interpersonal relationships. These acquired skills will help students enhance their personal, social, and professional relationships, especially as they prepare for organizational advancement and leadership roles. Prerequisite: SPH-1090.

SPH-2200  GENDER AND COMMUNICATION.  3 CREDITS
Examines sex, gender, sexuality, and culture in relational situations. This course explores ways in which communication behavior affects every facet of life in how gender and gender roles are perceived. Students will critically think and analyze issues of gender and communication. This will be achieved by examining theoretical perspectives of socialization, stereotypes, and male and female interactions. Prerequisites: SPH-1010, 1050, 1090, or 1110 with grade of C or higher. (Formerly SPH-1200. Students may not receive credit for both SPH-1200 and SPH-2200.)

SPH-2210  APPLIED SPEECH COMMUNICATION AND THEATRE.  3 CREDITS
Group and individualized instruction in speech, mass media, and theatre. Prerequisite: Permission of department. 2 class/2 lab hours.

SPH-2230  INTERCULTURAL COMMUNICATION.  3 CREDITS
Exploring communication differences and similarities when living and working with people of differing ethnicity, race, sex, age and/or nationality. Prerequisites: SPH-1010, 1050, 1090, or 1110 with grade of C or higher. (Formerly SPH-1230. Students may not receive credit for both SPH-1230 and SPH-2230.)

SPH-2890H  HONORS COLLOQUIUM IN SPEECH.  3 CREDITS
This honors colloquium will examine special topics in the field of speech and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

SPH-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

SURGICAL TECHNOLOGY (SGT)
Allied Health and Nursing Department
Center for Health Studies, Room 1402 | 301-546-0733
SGT courses are offered once per year in the fall, spring, and summer sessions I and II. A grade of C or higher must be maintained in all prerequisites, program courses, and required science courses.

SGT-1010  INTRODUCTION TO SURGICAL TECHNOLOGY.  3 CREDITS
An introduction to basic surgical instrumentation along with specific nomenclature and classification related to surgical procedures. Concepts of sterilization and disinfection and their effects on wound healing are included. The care, use and handling of instrumentation and suture material are provided through hands-on application. In addition to a thorough introduction on instrumentation, students will also receive a basic foundation in surgical technology. Prerequisites: Program admission and eligibility for EGL-1010 and MAT-1120; BIO-2050 and HIM-1530 completed or concurrent. 2 lecture/3 lab hours.

SGT-1030  SURGICAL PROCEDURES I.  3 CREDITS
In order to understand surgical procedures, the student must be able to explore specific medical conditions, signs and symptoms leading up to surgery. At the conclusion of this course, the student will be able to identify anatomy and related pathology for various specialties. Specialties to be covered shall include General, OB/GYN, Genitourinary, and Plastic and Reconstructive Surgery. In addition, students will be able to identify and speculate on diagnostic procedures necessary before and during these surgical procedures. Prerequisites: HIM-1530, BIO-2050, and SGT-1010 with grades of C or higher; BIO-2060 completed or concurrent. 2 lecture/3 lab hours.

SGT-2010  SURGICAL TECHNOLOGY CLINICAL I.  5 CREDITS
First clinical practicum that introduces the student to an actual operating room setting. Students are provided the opportunity to apply the principles of aseptic technique, prepare instruments and other sterile items for surgical procedures and assist in basic operating room procedures. Students will be assigned to a clinical affiliation eight hours per day, five days per week, for seven weeks for a total of 280 hours of clinical experience. Competency based clinical skills must be successfully completed and checked off. Prerequisites: BIO-2060 and SGT-1030 with grades of C or higher. 40 clinical hours/week.

SGT-2050  SURGICAL PROCEDURES II.  3 CREDITS
Intermediate level of the surgical procedures series of classes within the Surgical Technology Program. Focuses on advance surgical procedures such as Peripheral Vascular Surgery, Otorhinolaryngologic Surgery, Neurologic Surgery, and other specialties as deemed necessary by the instructor. In addition to new concepts in surgical intervention, more complicated types of instrumentation are introduced. Students will continue to learn to anticipate surgeon’s needs through the process of association and the identification of applied surgical patterns. Prerequisite: SGT-2010 with a grade of C or higher; SGT-2100 concurrent; BIO-2060 completed or concurrent. 2 lecture/3 lab hours.

SGT-2070  SURGICAL PROCEDURES III.  3 CREDITS
The highest level of the surgical procedures series of classes within the Surgical Technology Program. This course focuses on advanced surgical procedures to include but not limited to Ophthalmic Surgery, Cardiothoracic Surgery and Orthopedic Surgery. In addition to new concepts in surgical intervention, more instrumentation will be introduced. Students will continue to learn to anticipate surgeon’s needs through the process of association and the identification of applied surgical patterns. Prerequisites: SGT-2050, SGT-2100, and BIO-2010 with grades of C or higher; SGT-2200 and SGT-2300 concurrent. 2 lecture/3 lab hours.

SGT-2100  SURGICAL TECHNOLOGY CLINICAL II.  4 CREDITS
Second practicum class in the Surgical Technology Program. Students continue in their experiences at their previous clinical affiliation eight hours per day, two days per week, for 15 weeks for a total of 240 hours of clinical experience. Competency based skills must be successfully completed and checked off. Students are expected to perform at a level requiring more independence with some guidance still expected. Prerequisite: SGT-2010 with a grade of C or higher; SGT-2050 concurrent and BIO-2010 completed or concurrent. 16 clinical hours.

SGT-2200  SURGICAL TECHNOLOGY CLINICAL III.  4 CREDITS
The final practicum class in the Surgical Technology Program. Students complete their experiences at their clinical affiliation eight hours per day, two days per week, for 15 weeks for a total of 240 hours of clinical experience. Competency based skills must be successfully completed and checked off. At this level the student is expected to perform independently at the level expected of an entry-level practitioner. Prerequisites: SGT-2050, SGT-2100, and BIO-2010 with grades of C or higher; SGT-2070 and SGT-2300 concurrent. 16 clinical hours.

SGT-2300  PROFESSIONAL SUCCESS PREPARATION.  
3 CREDITS
Provides job-seeking skills and an overview of theoretical knowledge in preparation for certification. Topics include test-taking strategies, resume preparation, and interviewing techniques. Upon completion, students will be able to prepare a resume, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification. Review and discussion of all material covered during the course of the program in preparation for the NBSTSA certifying exam. Critical thinking and problem solving skills are challenged. Prerequisites: SGT-2050, SGT-2100, and BIO-2010 with grades of C or higher; SGT-2070 and SGT-2200 concurrent.
TEACHER EDUCATION (TED)
All TED courses must be passed with a grade of C or higher.
Teacher Education Department
Marlboro Hall, Room 2111 | 301-546-0780 or 301-546-5250

TED-1100 PRINCIPLES AND PRACTICES IN EARLY CHILDHOOD EDUCATION. 3 CREDITS
Develops an understanding of the roles and responsibilities of the early childhood education professional, and the history and current practices of early childhood education in the field today. Includes the types of developmentally appropriate programs and related services in the field and their theoretical foundations. Prerequisite: Reading proficiency. Prerequisite: Reading proficiency. For students in the AAS in ECE Program, TED-1100 and 1110 must be taken concurrently. TED-1100 and 1200 may be taken concurrently.

TED-1110 PROFESSIONAL DISPOSITIONS AND BEHAVIORS FOR EDUCATIONAL SETTINGS. 2 CREDITS
Focuses on professional dispositions and behaviors that are required to be successful in the field of teacher education. Students will be introduced to the NAEYC code of ethics, InTASC standards for professionalism, and other needed professional behaviors. Students will be required to demonstrate these behaviors in simulated and real-life situations. This course must be taken concurrently with TED-1100 and is a required course for all A.A.S. in ECE students. It must be passed with a grade of B or higher and can only be taken twice. Students failing this course for the second time cannot continue in the A.A.S. in ECE program. Prerequisite: Reading proficiency.

TED-1200 CHILD GROWTH AND DEVELOPMENT. 3 CREDITS
An introduction to the growth and development of children and adolescents. Emphasis is on physical, intellectual, and social/emotional aspects of child development and techniques to foster optimum physical, cognitive, social, and emotional development in educational settings. Students in the A.A.S. in ECE Program may take TED-1100 and 1110 in the same semester. Students in the A.A.T. in ECE Program may register for TED-1100 in the same semester. Prerequisite: Reading proficiency.

TED-1300 METHODS AND MATERIALS IN EARLY CHILDHOOD EDUCATION. 3 CREDITS
Focuses on the methods and proper use of materials for effectively teaching young children. Students will plan and implement developmentally appropriate units, lessons, and activities for young children in a variety of settings. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100 and 1200 with grades of C or higher. Grade of B or higher in TED-1110. For students in the A.A.T. in ECE Program: TED-1100 and 1200 with grades of C or higher. TED-1300 may be taken concurrently with TED-1400.

TED-1400 INTRODUCTION TO MULTICULTURAL EDUCATION. 3 CREDITS
An introduction to the principles, concepts, and strategies of multicultural education. Emphasis is on using this knowledge to be able to create a classroom environment that is respectful of all students’ cultures, recognizes the complexity of the world in which they live, and utilizes a variety of tools to foster multicultural awareness. Students may register for TED-1300 in the same semester. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100 and 1200 with grades of C or higher. Grade of B or higher in TED-1110. For students in the A.A.T. in ECE Program: TED-1100 and 1200 with grades of C or higher. TED-1300 may be taken concurrently with TED-1400. (Honors version available.)

TED-1980 TEACHING AND LEARNING IN THE 21ST CENTURY. 3 CREDITS
Intended for those students who wish to learn more about the teaching profession or those who may be thinking of changing their majors or careers to the field of education. Students will learn about the different areas of education, the programs for teacher education at the college, what it means to be an education professional, and an introduction to the basic concepts and skills in the field. The course encompasses hands-on activities and out-of-class experiences for students to gain additional knowledge about the field of education. Prerequisite: DVR-0051 or equivalent.

TED-2000 FOUNDATIONS OF EDUCATION. 3 CREDITS
Introduces the study of schools from historical, philosophical, political and sociological perspectives. Current issues and practices in education are explored with attention to the many interactive influences of schools and society. Prerequisite: Reading proficiency. It is recommended that A.A.T. students take TED-2000 concurrently with TED-2001.
TED-2001 FIELD EXPERIENCE FOR FOUNDATIONS OF EDUCATION. 1 CREDIT
This course gives students the opportunity to observe local teachers in elementary, middle, and high schools. They will become familiar with the local school system and with how teachers and schools address educational issues studied in TED-2000. They will spend at least 15 clock hours in a school at the level at which they want to be certified. Students will attend a seminar at Prince George’s Community College every other week. Prerequisite: Reading proficiency. It is recommended that students take TED-2001 concurrently with TED-2000.

TED-2061 FIELD EXPERIENCE FOR EDUCATIONAL PSYCHOLOGY. 1 CREDIT
Students will engage in guided field observations of the teaching and learning process. They will spend at least 15 clock hours in a school at the level at which they want to be certified. Students will attend a seminar at Prince George’s Community College every other week. The field experience is an opportunity to apply concepts learned in PSY-2060 to processes of teaching and learning at a local school. Prerequisite: Reading Proficiency. It is recommended that A.A.T. students take this course concurrently with PSY-2060.

TED-2100 PROCESSES AND ACQUISITION OF READING. 3 CREDITS
Students will be able to explain the language and cognitive precursors to the reading acquisition process. Students will demonstrate a knowledge of phonemic awareness, phonics, vocabulary, comprehension and fluency in developing readers. Prerequisite: Reading proficiency.

TED-2110 INFANT AND TODDLER CURRICULUM AND TEACHING. 3 CREDITS
An introduction to the curriculum and teaching strategies necessary for developing a quality infant and toddler program. Students will plan and implement developmentally appropriate units, lessons, and activities for infants and toddlers in a variety of program settings. Prerequisites: TED-1100, 1110, 1200, 1300, and 1400.

TED-2115 SCHOOL AGE CHILD CARE: CURRICULUM AND TEACHING. 3 CREDITS
An introduction to the curriculum and teaching strategies necessary for developing a quality school age (before and after care) program. Students will plan and implement developmentally appropriate activities or lessons, develop schedules for school-age programming, and examine appropriate practices for teaching and guiding behavior in a school age program. Prerequisites: TED-1100, 1110, 1200, 1300, and 1400.

TED-2200 GUIDING BEHAVIOR IN EDUCATIONAL SETTINGS. 3 CREDITS
Develops an understanding of the strategies for managing and guiding behaviors in children from birth to adolescence. Focuses on how to foster positive social interactions and to engage in positive guidance strategies in a variety of educational settings. Prerequisites: TED-1100, 1110, 1200, 1300, and 1400.

TED-2300 INTRODUCTION TO SPECIAL EDUCATION. 3 CREDITS
Designed as an introduction to the field of special education. The course covers the education of exceptional students: historical, philosophical, educational, legal issues, and current practices in assessment, diagnosis and teaching. Prerequisite: Reading proficiency. It is recommended that A.A.T. students take TED-2301 concurrently with TED-2300.

TED-2301 FIELD EXPERIENCE FOR SPECIAL EDUCATION. 1 CREDIT
This course allows students to engage in guided observations of special education practice in local public schools for a total of 15 hours. Students will attend a seminar at the college every other week. This field experience is an opportunity to apply concepts learned in TED-2300 to the processes of teaching and learning at a local school. Prerequisite: Reading proficiency. It is recommended that students take this course concurrently with TED-2300.

TED-2350 EARLY CHILDHOOD SPECIAL EDUCATION. 3 CREDITS
Introduction to the field of special education, including characteristics of exceptional children and developmentally appropriate materials and instructional techniques in a variety of educational settings. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100, 1200, 1300, and 1400 with grades of C or higher. Grade of B or higher in TED-1110. For students in the A.A.T. in ECE Program: TED-1100, 1200, 1300, and 1400 with grades of C or higher.
**TED-2355**  **INCLUSIVE PRACTICES FOR CLASSROOMS.**  **3 CREDITS**

Focuses on appropriate inclusion strategies for students with special needs in the general education classroom, grades pre-K–12. Activities and assessments will focus on the age/grade level(s) students teach or plan on teaching. This course can be counted as an elective course for the A.A.S. in Early Childhood Education and is appropriate for teachers seeking recertification or who are currently teaching in the field. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100, 1110, 1200, 1300, 1400, and 2350. For current teachers or other students, departmental permission is required instead.

**TED-2400**  **LANGUAGE ARTS IN EARLY CHILDHOOD EDUCATION.**  **3 CREDITS**

Focuses on understanding the developmental progression of language development in young children, explores strategies for creating an environment which strengthens children’s emerging literacy skills, and identifies methods and materials for teaching young children pre-literacy and literacy skills and concepts. Students will plan and implement developmentally appropriate literacy and pre-literacy units, lessons, and activities for young children in a variety of educational settings. Prerequisites: TED-1100, 1110, 1200, 1300, and 1400.

**TED-2510**  **CLASSROOM STRATEGIES FOR ENGLISH LANGUAGE LEARNERS.**  **3 CREDITS**

Focuses on meeting the needs of English Language Learners in a classroom (Pre-K–grade 12). Students will learn about culturally responsive instruction and how to create a classroom climate that affirms linguistic and cultural diversity. Additionally, students will learn how to use a variety of teaching strategies to enhance both second language acquisition and learning of content knowledge and skills. Activities and assessments will focus on the grade level(s) students teach or plan on teaching. This course can be counted as an elective course for the A.A.S. in Early Childhood Education and is appropriate for current teachers or those seeking recertification. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100, 1110, 1200, 1300, and 1400. For current teachers or other students, departmental permission is required instead.

**TED-2515**  **MATHEMATICS AND SCIENCE STRATEGIES FOR YOUNG CHILDREN.**  **3 CREDITS**

Focuses on infusing mathematics and science concepts and skills into classroom settings for young children. Students will identify appropriate concepts in mathematics and science for young children, as well as effective and developmentally appropriate strategies for teaching these concepts to them. This course can be counted as an elective course for the A.A.S. program in Early Childhood Education and is also appropriate for current teachers of young children in child care, preschool, or school settings, as well as for teachers seeking recertification. Prerequisites: TED-1100, 1110, 1200, 1300, and 1400; MAT-1050 or higher; and any general education science course. For current teachers or other students, departmental permission is required instead.

**TED-2520**  **USING NEW TECHNOLOGIES IN TEACHING AND LEARNING**  **3 CREDITS**

(Formerly Using New Literacies in the Classroom) An in-depth exploration of new forms of literacy made possible by digital technology developments. Students will explore how new literacies, such as wikis, blogs, and Internet projects, can be used to enhance learning in the classroom. Students will learn both how to effectively use existing sources and to create sources for learning in their classroom. Additionally, students will explore how these new literacies build upon traditional reading and writing experiences and why new literacy skills are necessary in the 21st century. This course can be counted as an elective course for the A.A.S. program in Early Childhood Education and is appropriate for current teachers or those seeking recertification. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100, 1110, 1200, 1300, and 1400. For current teachers or other students, departmental permission is required instead.

**TED-2650**  **CHILD CARE CENTER ADMINISTRATION AND MANAGEMENT.**  **3 CREDITS**

Focuses on the administration and management of a child care center. Emphasis is on meeting state requirements for physical facilities, licensing, insurance, and staffing child care programs. Other topics include record keeping, budgeting, hiring, training and managing staff, food services, equipment, materials, community involvement and resources, and current topics in child care. Prerequisites: TED-1100, 1110, 1200, 1300, and 1400.
TED-2750 FIELD WORK IN EARLY CHILDHOOD EDUCATION. 3 CREDITS
Field work designed to provide the student with “real life” experiences in a center for young children or an elementary school’s prekindergarten through third grade classroom. Students will complete 6 hours per week (2 days per week, each for a 3-hour block of teaching time) at a college-assigned field work site. This experience will take place under the guidance of both an experienced teacher and a college supervisor. Students will also complete weekly course work, both online and through several on-campus meetings. The focus of this capstone course is on the development of the necessary teaching skills to maintain an effective learning environment. These skills include: lesson planning, implementation, and reflection; pedagogy, curriculum planning and assessment; classroom management; and effective communication with other professionals, students, and families. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100, 1110, 1200, 1300, 1400, and 2350. For students in the A.A.T. in ECE Program: TED-1100, 1200, 1300, 1400, and 2350. For all students: This is a Capstone Course: Students must have completed a minimum of 47 credit hours, including all required prerequisites, prior to enrolling in this course. A cumulative GPA of 2.00 is also required. 2 class hours/6 field hours.

TED-2751 FIELD WORK IN EARLY CHILDHOOD SPECIAL EDUCATION. 3 CREDITS
Field work designed to provide the student with “real life” experience in a special education setting. Students will complete 6 hours per week on Saturdays at the Children's Developmental Clinic on the PGCC Largo campus. This experience will take place under the guidance of both an experienced teacher and a college supervisor. Students will also complete weekly course work, both online and through several on-campus meetings. The focus of this capstone course is on the development of the necessary teaching skills to maintain an effective learning environment for children with special needs. These skills include: lesson planning, implementation, and reflection; pedagogy, curriculum planning and assessment; classroom management; and effective communication with other professionals, students, and families. Prerequisites: For students in the A.A.S. in ECE Program: TED-1100, 1110, 1200, 1300, 1400, 2200, and 2350. For students in the A.A.T. in ECE Program: TED-1100, 1200, 1300, 1400, and 2350. For all students: This is a Capstone Course—students must have completed a minimum of 47 credit hours, including all required prerequisites, prior to enrolling in this course. A cumulative GPA of 2.00 is also required. 2 class hours/6 field hours.

TED-2800 MATERIALS FOR TEACHING READING. 3 CREDITS
Introduces students to a variety of materials to be used for the purposes of developing phonemic awareness, phonics, vocabulary, comprehension and fluency. Students will learn to select and evaluate materials as well as utilize the expertise of parents and other members of the community to help fulfill goals of the reading program. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2801 INSTRUCTION OF READING. 3 CREDITS
Focuses on the teaching of reading from pre-kindergarten through 8th grade. Students will develop and use a variety of developmentally appropriate word recognition and reading comprehension strategies. Students also will examine a balanced literacy program which fosters phonemic awareness, phonics, vocabulary, comprehension, and fluency. This course is intended for those persons who have a bachelor's degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2802 ASSESSMENT OF READING. 3 CREDITS
Students will expand their understanding of appropriate assessment practices and apply these practices to literacy assessment. Students will learn a variety of assessment tools and techniques for the elementary classroom. For each type of assessment presented, students learn administrative procedures, explore strengths and limitations of the instrument or technique and practice developing instructional implications from results. This course is intended for those persons who have a bachelor's degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2810 LITERACY INSTRUCTION FOR THE COMMON CORE STATE STANDARDS. 3 CREDITS
Focuses on the Common Core English Language Arts Standards and how to transform instruction in order to meet these higher level standards in K-12 classrooms. Learning activities and assessments within this course will focus on the age/grade level(s) students teach or plan on teaching. This course is appropriate for teachers seeking recertification or who are currently teaching in the field at all grade levels. Prerequisite: TED-2100. Or, for those students seeking teacher certification or recertification, departmental permission is required.
TED-2820  TEACHING READING IN THE CONTENT AREAS:
PART I.  3 CREDITS
Addresses teaching middle school and high school students to improve their ability to read and learn from text, regardless of the class they are taking. It will help teachers and potential teachers, regardless of subject area, to understand the importance of literacy in their classroom, the weaknesses of struggling readers and writers, and the impact of technology on literacy development in our society. Students taking this course will study, use, and evaluate a wide range of strategies and approaches to literacy. The focus is on reading and writing strategies that promote a better understanding of subject content for secondary school students of all backgrounds and ability levels. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2821  TEACHING READING IN THE CONTENT AREAS:
PART II.  3 CREDITS
Expands upon Part I, focusing on types of reading, skills in reading and instruction. The emphasis is on teaching secondary students to learn from text. Participants will formulate research questions, complete a literature review and implement and evaluate a coherent literacy plan. Participants also will implement reading and writing strategies that promote understanding of subject area content. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2830  ASSESSMENT OF STUDENTS.  3 CREDITS
An introduction to tests and measurement in an educational setting. Students will construct the knowledge and understanding needed for selecting, administering, diagnosing, evaluating and reporting results of standardized and informal techniques of measurement. This course will review definition, concepts, and current issues in measurement. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2840  ELEMENTARY METHODS.  3 CREDITS
This course focuses on strategies of teaching in the elementary grades and knowledge of the theory and research supporting these strategies. Opportunities for practice of planning and delivery of instruction will be provided. A goal of this course is to develop the habit of reflective practice and to foster collaborative problem solving. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2850  SECONDARY METHODS.  3 CREDITS
This course is designed to provide secondary teachers with knowledge of theory and teaching practices, current educational goals, both nationally and locally and trends in educational assessment and application. This knowledge will be used to plan, design and conduct effective instruction. Supplemental topics will include multiculturalism and classroom management. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2900  SPECIAL EDUCATION METHODS:
BIRTH–12TH GRADE.  3 CREDITS
Students will understand and use a variety of organization, teaching and classroom management strategies. The course will focus on effective practices in different settings with all disability groups, as well as collaboration with other involved professionals and parents. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2901  SPECIAL EDUCATION METHODS:
BIRTH–6TH GRADE.  3 CREDITS
Students develop knowledge and skills in planning lessons for diverse learners, teaching oral language, writing, reading, mathematics and content area material to students with special needs in both early childhood and elementary settings. In addition, students will explore special topics including inclusion, transitioning and social skills development. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.
TED-2902  SPECIAL EDUCATION METHODS:
GRADE 6–GRADE 12.  3 CREDITS
Focuses on current practices in teaching students with special needs in grades 6 through 12. Students will review/demonstrate a variety of teaching techniques in the areas of functional skills, managing the learning environment, reading, writing, mathematics and the content areas. Special focus is placed on transition education and services for adolescents. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2950  SPECIAL EDUCATION ASSESSMENT PART I:
BIRTH–12TH GRADE.  3 CREDITS
Provides the opportunity for students to develop the knowledge and skills for selecting, administering, interpreting, diagnosing, reporting, using assessment data, monitoring and evaluating of the instructional program. Legal perspectives, technical aspects of assessment tools, accommodations, computer as a tool for assessment, and nondiscriminatory testing will be examined. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TED-2951  SPECIAL EDUCATION ASSESSMENT PART II:
BIRTH–12TH GRADE.  3 CREDITS
Fosters development of knowledge and skills in assessment, administration, interpretation, programming and alignment of test data with teaching standards. Trends in informal assessment, vocational assessment, work sample analysis, task analysis, portfolios and teacher-made tests will be explored. This course is intended for those persons who have a bachelor’s degree and are seeking initial teacher certification and for teachers seeking recertification. Prerequisite: Departmental permission required.

TELEVISION, RADIO, AND FILM (TRF)

Communication and Theatre Department
Queen Anne Fine Arts, Room 113 | 301-546-0926

TRF-1310  INTRODUCTION TO MASS COMMUNICATION.
3 CREDITS
Mass media systems: their history, regulation, aesthetics and contemporary impact. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

TRF-1330  TELEVISION PRODUCTION I.  3 CREDITS
Techniques of studio production and basic field techniques with practice in student productions. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/2 lab hours.

TRF-1410  INTRODUCTION TO RADIO.  3 CREDITS
Radio as a mass medium: origins and techniques of programming, scriptwriting, announcing, studio production, and station operation. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/2 lab hours.

TRF-2040  INTRODUCTION TO BROADCAST NEWS.
3 CREDITS
Provides training in electronic news gathering, interviewing, story developing, reporting, editing and producing news for radio and television. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/2 lab hours.

TRF-2310  INTRODUCTION TO FILM.  3 CREDITS
Historical, artistic and sociological trends of the cinema, supplemented by film viewing and analysis. Credit may not be received for both EGL-2310 and TRF-2310. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

TRF-2330  TELEVISION PRODUCTION II.  3 CREDITS
Television production emphasizing field production and editing. Prerequisites: TRF-1330 and permission of department. 3 class/2 lab hours.
TRF-2340 DIGITAL VIDEO EDITING. 3 CREDITS
An Introduction to the theory and practice of post-production techniques and aesthetics, while exploring key terms, functions, and concepts of non-linear editing. Students will learn the equipment and processes used to manipulate video and audio using professional nonlinear editing software. Prerequisites: TRF-1330 with a grade of C or higher. 2 class/3 lab hours.

TRF-2910–2930 COOPERATIVE EDUCATION. 1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall Room 2102, 301-546-0136, for more complete information.

THEATRE (THE)
Communication and Theatre Department
Queen Anne Fine Arts, Room 119 | 301-546-0920

THE-1010 INTRODUCTION TO THE THEATRE. 3 CREDITS
Appreciating the director, the actor, the playwright, and the people behind the scenes in today’s theatre. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. (Honors version available.)

THE-1020 PRINCIPLES OF ACTING I. 3 CREDITS
The experience of acting, involving imagination, body movement, voice techniques, stage awareness, and characterization. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. (Formerly THE-2010. Students may not receive credit for both THE-2010 and THE-1020.)

THE-1030 INTRODUCTION TO STAGE TECHNOLOGY. 1 CREDIT
Overview of stage technology as a profession, including its history, architecture, jargon, opportunities, educational, and practical requirements. Includes field work. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher, or permission of the department.

THE-1040 INTRODUCTION TO EVENT STAGING. 4 CREDITS
Introduction to the job of a stage carpenter, emphasizing familiarity with the stage space and its equipment, routine of loading a show into the theatre, and running a show. 2 class/4 lab hours.

THE-1050 PLAY PRODUCTION. 3 CREDITS
Basic elements involved in the production of plays in a community or nonprofessional setting. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

THE-1060 THEATRICAL RIGGING. 4 CREDITS
Introduction to the job of a stage flyman/rigger, including familiarity with flying and rigging equipment, routine of hanging a show, and running a show on the flyrail. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/4 lab hours.

THE-1080 LIGHTING FOR THE STAGE. 4 CREDITS
Introduction to the job of a stage electrician, emphasizing familiarity with lighting equipment, electrical basics, and running show electrics. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/4 lab hours.

THE-1090 FUNDAMENTALS OF MOVEMENT. 3 CREDITS
An examination of various styles of movement for acting, including mime, dance, and stage combat. Prerequisite: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

THE-1100 CONCERT AND STAGE SOUND REINFORCEMENT. 4 CREDITS
Introduction to the job of a stage sound person, familiarity with stage and concert sound equipment, loading in show sound, setting up show sound, and running show sound. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/4 lab hours.

THE-1110 INTRODUCTION TO STAGE MAKEUP. 2 CREDITS
Theory and application of stage makeup, covering the creation of types, characters, race, and historical periods. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

THE-1130 FUNDAMENTALS OF THEATRICAL DESIGN. 3 CREDITS
An examination of the aspects of theatrical design from concept to presentation.
THE-1150  TECHNICAL THEATRE.  3 CREDITS
Principles and production of scenery and lighting for the theatre. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher.

THE-2010  PRINCIPLES OF ACTING I.  3 CREDITS
Course has been re-numbered. See THE-1020.

THE-2020  PRINCIPLES OF ACTING II.  3 CREDITS
Continuation of THE-2010. Focuses on the further refinement of acting skills. Prerequisite: THE-2010.

THE-2030  FUNDAMENTALS OF SCRIPT ANALYSIS.  3 CREDITS
Detailed study of the play by analyzing structure, genre, theme, style, character, and language. The course also will include an examination of the actor's role in script analysis and the roles of the director, playwright, dramaturge, and audience in the play. Prerequisite: Reading and oral proficiency.

THE-2040  EVENT AND CONFERENCE MULTIMEDIA PRODUCTION.  3 CREDITS
Introduction to audiovisual equipment, routines of setting up special events, and routines of working in convention and hotel venues. Prerequisites: Reading and oral proficiencies ESL-0106 with a grade of C or higher. 2 class/2 lab hours.

THE-2050  FUNDAMENTALS OF THEATRE HISTORY I.  3 CREDITS
A study of the development of the theatre from its earliest beginnings to the 17th century. The course will examine archeological evidence, physical structures and how they were used in theatre and the development of the playwright and play. Prerequisite: Reading and oral proficiency.

THE-2060  THEATRE COMPUTER AUTOMATION AND CONTROL.  3 CREDITS
Introduction to automated lighting equipment and control, familiarity with stage automation and motion control systems, assembling and using the systems. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/2 lab hours.

THE-2080  STAGE SCENERY CONSTRUCTION.  4 CREDITS
Emphasizes familiarity with scene shop equipment and tools, materials, hardware, joinery, layout, and construction of scenery. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/4 lab hours.

THE-2100  CONCERT AND STAGE SPECIAL EFFECTS.  3 CREDITS
Introduction to stage special effects, electrical and mechanical machinery, firearms, and pyrotechnics. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/2 lab hours.

THE-2120  FILM AND STUDIO MECHANICS.  3 CREDITS
Introduction to film/video production, production organization and job areas, and production techniques unique to film. Prerequisites: Reading and oral proficiencies or ESL-0106 (formerly ESL-1060) with a grade of C or higher. 2 class/2 lab hours.

THE-2890H  HONORS COLLOQUIUM IN THEATRE.  3 CREDITS
This honors colloquium will examine special topics in the field of theatre and their relevance across disciplinary perspectives. The issues to be addressed in each colloquium will vary from semester to semester. These courses are designed for students in the Honors program, but are open to others with the approval of the honors coordinator or the instructor. Prerequisites: Reading proficiency and permission of instructor or honors coordinator.

THE-2910–2930  COOPERATIVE EDUCATION.  1–3 CREDITS
A maximum of six credits of cooperative education and internship experiences may be applied to any degree. These credits may not transfer to all four-year institutions. Contact the Career Services Office, Marlboro Hall, Room 2102, 301-546-0136, for more complete information.

WOMEN’S STUDIES (WMS)

History, Political Science, Geography, and Anthropology
Department | Marlboro Hall, Room 2018 | 301-546-0527

WMS-1010  INTRODUCTION TO WOMEN’S STUDIES.  3 CREDITS
An interdisciplinary approach featuring recent scholarship on women, gender, and feminist theory that critically examines assumptions about gender. The readings and assignments reflect women's experiences with race, class, and gender and provide information about women's psychology, biology, roles, experiences, contributions, and history. Prerequisite: Reading proficiency.