

Course Descriptions

Accounting

ACC 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of accounting is developed individually between student and faculty member and must be approved by the Department.

Department: Business

ACC 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Business

ACC 1100 - Fundamentals of Accounting I

4 Credit(s) Hours: *4 hrs.*

This course introduces accrual-basis accounting for sole proprietorships in the service and merchandising industries. Topics include double-entry recording of business transactions and adjusting and closing entries. Preparation of financial statements under Generally Accepted Accounting Principles, including the income statement, owner's equity statement and balance sheet. Inventory valuation methods, specialized journals, subsidiary ledgers, bank reconciliations, internal control concepts, computerized accounting, and depreciation methods are also covered.

Department: Business

ACC 1200 - Fundamentals of Accounting II

4 Credit(s) Hours: *4 hrs.*

This second course in fundamentals of accounting focuses on partnership and corporate accounting. It includes the preparation of the retained earnings, stockholder's equity and cash flow statements. Other topics include accounting for receivables, payables, and long term debt, with a focus on bonds payable. In addition, both financial statement analysis tools and differences between financial and managerial accounting are examined.

Prerequisite(s): ACC 1100

Department: Business

ACC 2100 - Intermediate Accounting I

3 Credit(s) Hours: *3 hrs.*

Study of financial accounting, accounting standards, and the conceptual framework underlying financial accounting. The accounting information system is reviewed, including the accounting cycle as applied to the corporate organization. Preparation and understanding of the major financial statements-the classified balance sheet, income statement, statement of retained earnings, and statement of cash flows. Also covered: revenue recognition, management and control of cash, recognition and valuation of accounts receivable.

Prerequisite(s): ACC 1200 with a minimum grade of "C"

Department: Business

ACC 2200 - Intermediate Accounting II

3 Credit(s) Hours: *3 hrs.*

Continued study of financial accounting concepts including inventories, tangible, intangible and other non-current assets, liabilities, stockholder's equity, reporting requirements, earnings per share, accounting for investments and the time value of money. The impact of recent accounting developments on financial statements and generally accepted accounting principles are illustrated and discussed.

Prerequisite(s): ACC 2100

Department: Business

ACC 3100 - Cost Accounting

4 Credit(s) Hours: *4 hrs.*

This course explores manufacturer cost concepts, including overhead application, and systems of accounting for job-order-costing and process costing. Direct costing will be used in performing cost-volume-profit analysis. Examination will be conducted of budgets and variances between actual and standard results. Activity-based-costing as an alternative to determining cost basis will be observed. Differential analysis will be conducted to determine favorable outcomes.

Prerequisite(s): ACC 1200 with a minimum grade of "C"

Department: Business

ACC 4100 - Federal Taxation

4 Credit(s) Hours: *4 hrs.*

Study of current federal income tax law regulations include: concepts of taxable gross and net income, deductions and exemptions as applied to various classes of individual taxpayers. Preparation of individual income tax returns on actual governmental forms required.

Prerequisite(s)/Corequisite(s): ACC 1200 or Department permission

Department: Business

ACC 6000 - Microcomputer Accounting Applications

3 Credit(s) Hours: *3 hrs.*

The use of accounting system software as a tool for processing accounting data into financial information. Accounting system topics include the accounting cycle, general ledger, sales and accounts receivable, purchasing and payment, payroll, inventory, account reconciliation, financial reporting and budget analysis.

Prerequisite(s): ACC 1200 and BA 6000 or equivalent

Department: Business

Anthropology

ANT 3700 - Introduction to Anthropology

3 Credit(s) Hours: *3 hrs.*

A comparative study of the human condition in various societies and its application in solving practical problems. Topics include: human evolution, the meaning of our physical diversity, communication, miscommunication and past and present cultural diversity.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Behavioral Sciences

ANT 3800 - Human Rights

3 Credit(s) Hours: *3 hrs.*

Overview of anthropological, political, legal, economical, and philosophical perspectives on human rights. The history of human rights, examination of the basic treaties on human rights and exploration of the ways in which culture, religion, race, gender, indigenouness, human trafficking, genocide, and forced migration relate to human rights. Analysis of the global and local response to contemporary human rights abuses on a variety of issues in various countries.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Behavioral Sciences

ANT 3900 - Sexuality and Culture

3 Credit(s) Hours: *3 hrs.*

Approaches human sexuality from a unique perspective by incorporating theories from anthropology, sociology, psychology, women's studies and queer theory. Course explores the ways in which sexual behavior has changed over time and how it varies cross-culturally. It will also address current issues such as pornography, sex workers, gender and sexual diversity, sex tourism, same-sex sexuality, sexual rights, and cybersex.

Prerequisite(s): ANT 3700 or SOC 3100 or PSY 1100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

ANT 4000 - Environmental Anthropology

3 Credit(s) Hours: *3 hrs.*

The course introduces students to the biological, cultural, and environmental issues impacting the world we live in locally and globally. Using various methodological and theoretical approaches, the course investigates issues and links between cultures, environment, and environmental justice. Focus issues include water, fires, melting glaciers and sea ice, droughts, environmental toxins, and shrinking of habitats and resources for humans and non-human species. As some communities and countries are more affected by these changes than others, the class will provide students with critical and applied skills for looking at human cultures within a wider ecosystem and provide the opportunity to create solutions for meaningful as well as equitable sustainability.

Prerequisite(s): SOC 3100

Department: Behavioral Sciences

Arabic

ARB 100 - Elementary Arabic I

3 Credit(s) Hours: *4 hrs.*

Basic speaking, listening, reading and writing Arabic. Through use of spoken and written sources, students will become acquainted with the sounds, alphabet, vocabulary, grammar and structure of the language. Use of laboratory and audio-visual materials to foster conversation and comprehension skills.

NOTE: This course was previously called ARB 8201

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

ARB 200 - Elementary Arabic II

3 Credit(s) Hours: *4 hrs.*

Continuation in basic speaking, listening, reading and writing Arabic. Use of spoken and written sources of the sounds, alphabet, vocabulary, grammar and structure of the language. Use of Laboratory and audio-visual materials to foster conversation and comprehension skills in Arabic.

NOTE: This course was previously called ARB 8202

Prerequisite(s): ARB 100 or Department permission

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

ARB 300 - Intermediate Arabic I

3 Credit(s) Hours: *3 hrs.*

Continuation of the development of reading and writing skills in the language through the use of suitable passages on key themes in Arabic culture and society. Students will actively engage with spoken and written source material from the Arab world. Audio-visual materials will be used to foster conversation and comprehension skills in the language.

Prerequisite(s): ARB 200 or Department permission

Department: Communications and Performing Arts

ARB 400 - Intermediate Arabic II

3 Credit(s) Hours: *3 hrs.*

Continuation of the development of reading and writing skills in the language through use of suitable passages on key themes in Arabic culture and society. Students will likely engage with spoken and written source material from the Arab world. Audio-visual materials will be used to foster conversation and comprehension skills in the language.

Prerequisite(s): ARB 300 or Department permission

Department: Communications and Performing Arts

Art: Art History (Non-Studio)

ART 81XX - Independent Study (Non-Studio)

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of art is developed individually between student and faculty member and must be approved by the Department.

Department: Art

ART 82XX - Topical/Pilot Course (Non-Studio)

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interest of various student populations. It is offered for a maximum of two semesters.

Department: Art

ART 2200 - Medieval Art

3 Credit(s) Hours: 3

This course introduces students to the culture of the medieval era by studying the art of the following periods: Early Christian, Jewish, Byzantine, Islamic, Carolingian, Ottonian, Romanesque, and Gothic. The course covers the material chronologically and by region and theme in an effort to create an understanding of each culture's characteristic style, connection to its historical context, and its relationships to other cultures. It also explores how artworks functioned within religious and political contexts and issues of cross-cultural interactions stemming from trade, diplomacy, pilgrimage, the crusades, migration, and other forms of contact and exchange.

Flexible Core: Flexible Core: World Cultures and Global Issues (Group A)

Department: Art

ART 2300 - Asian Art through Religion, Philosophy, and Politics

3 Credit(s) Hours: 3 hrs.

Introduction to the history of Asian art (early India, China, Korea, and Japan) from prehistory to the present. The course will examine a broad range of artifacts including monuments, city planning, architecture, sculpture, painting, calligraphy, ceramics, and prints. How religion, philosophy, and politics uniquely shaped visual culture in Asia is discussed. The course equally emphasizes the cultural transfers, how one culture influences another, and how at the same time a non-indigenous element becomes vernacularized by mixing with the local culture.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 2400 - Global Contemporary Art: Diversities and New Expressions

3 Credit(s) Hours: 3 hrs.

Introduction to global contemporary art (the arts in the Americas, Europe, Middle East, Asia, and Africa). Art of the 21st century emerges from a vast variety of materials and means. This interdisciplinary course will examine a broad range of artistic practices including painting, sculpture, photography, video, performance art, animation, architecture, city planning, environmental art, activist art, and art using digital and social media. We will examine how arts from different geopolitical locations were uniquely shaped, responding to contemporary issues and concerns.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 3000 - Art and Activism

3 Credit(s) Hours: *3 hrs.*

Introduction to the role of art in society, and how modern and contemporary artists have employed art to challenge the status quo and stimulate social activism, change, and protest. The course will cover nine main topics: the Anti-War and Peace Movements, the Labor Movement, Art of the Cold War Era, Anti-Government Movements and Post Colonialism, the Civil Rights Movement, the Feminist Movement, Environmental Activism, Gay Identity and Queer Art, and Contemporary Protest Art. Although emphasis will be given to art and artists since 1945, the history of social activist and protest art will be traced through the modern era.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Art

ART 3100 - Survey of Art History: Prehistory to the Present

3 Credit(s) Hours: *3 hrs.*

Introduction to the visual arts, past and present. Basic elements in appreciating the great achievements in painting, sculpture and architecture. Aesthetic and societal considerations.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 3300 - Survey of Art History: From Ancient to Renaissance Art

3 Credit(s) Hours: *3 hrs.*

Comprehensive, chronological introduction to the history of art and architecture from ancient civilizations to the Renaissance. Consideration of the cultural context of artistic developments and styles. Required of Art Majors.

Recommended in first year.

See Department Advisor.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Art

ART 3400 - Survey of Art History: From Renaissance to 19th Century Art

3 Credit(s) Hours: *3 hrs.*

Major movements in Non-Western and Western art from the Renaissance through the late nineteenth century focusing on formal as well as historical issues. Required of Art Majors.

Recommended in first year.

See Department Advisor.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Art

ART 3500 - Nineteenth-Century Art

3 Credit(s) Hours: *3 hrs.*

An introduction to the development of modern art, beginning in early nineteenth-century France. The course traces the emergence of various art movements, the rise of the historical avant-garde in Europe and the United States and the development of abstract art to 1900.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 3600 - Twentieth-Century Art

3 Credit(s) Hours: *3 hrs.*

An introduction to movements in painting, sculpture and architecture in the twentieth-century. The course begins with the rise of abstraction in Europe before the wars, and follows the course of art movement and styles in the aftermath of World War II. The course covers recent developments in visual arts at the turn of the century.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 3700 - Survey of Non-Western Art

3 Credit(s) Hours: *3 hrs.*

Survey of World Art from Islamic culture, India, Asia, art of the Americas and Native American cultures, Africa and the Pacific. The art of these countries and cultures will be studied from prehistory to the present.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Art

ART 3800 - Renaissance Art

3 Credit(s) Hours: *3 hrs.*

History of the development of art from the Gothic movement through the rise of Humanism. The Renaissance in Florence, Italy and Northern Europe and an analysis of its new conception of nature, history and man. A general introduction to Renaissance artists in Florence and Spain.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 3900 - History of Women in Art

3 Credit(s) Hours: *3 hrs.*

Survey of the artistic works of women from the ancient world through the present. The class will consider formal issues, the representation of the female in the visual arts, the biographies of female artists, the art historical context of the work of women artists, and the rise of feminist art.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 4700 - History of American Art

3 Credit(s) Hours: *3 hrs.*

Introduction to the painting, sculpture, architecture and other forms of art created in the U.S. from the Colonial period through the early 20th Century. Aesthetic, cultural and social issues will be addressed while fostering an appreciation of the various styles and artistic approaches that have shaped the tapestry of American culture.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: Art

ART 5000 - Latin American Art

3 Credit(s) Hours: *3 hrs.*

Introduction to the arts of Latin America, including Meso, Central, and South America, and the Caribbean. In chronological order, the course will begin by examining the artistic production of the pre-Columbian era, establishing the iconography, styles, traditions, and techniques of each region. The art of colonial Latin America will be explored in regards to the cultural complexity and artistic convergence that characterized Spanish colonialism. Following independence, and in response to the influence of international artists, movements, and ideas, the development of Modern Art in Latin America will be discussed. Although emphasis will be placed on the Spanish-speaking countries of Latin America, the art of Brazil and Haiti will also be discussed.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Art

ART 9500 - Modern Architecture and the Environment

3 Credit(s) Hours: *3 hrs.*

A study of the major developments in the history and theory of architecture in Europe and the United States from the late 19th century through the present day and how these developments express our evolving understanding and perception of ourselves in relation to the environment. Particular attention will be given to landscape architecture, urban planning and contemporary innovations in green, ecologically-sustainable architecture.

Flexible Core: Creative Expression (Group C)

Department: Art

ART 9800 - History of Modern Sculpture

3 Credit(s) Hours: *3 hrs.*

A study of the major developments in the history and theory of sculpture in Europe and the United States, focusing on the nineteenth and twentieth centuries, and continuing through to sculpture of the present day.

Flexible Core: Creative Expression (Group C)

Department: Art

Art: Studio Art

ART 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of art is developed individually between student and faculty member and must be approved by the Department.

Department: Art

ART 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interest of various student populations. It is offered for a maximum of two semesters.

Department: Art

ART 2500 - Human Centered Design

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

This course introduces students to the user experience process of Human-Centered Design for designing and solving business problems. By the end of the course, students will have an understanding of the process that drives UX thinking and fosters skills for collaboration and problem-solving.

Prerequisite(s): ART 5500 **or** Department Permission

Department: Art

ART 2600 - UX Visual Design

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

This course will immerse students in the practice of UX and Visual Design for Digital Interfaces. Students will learn the process for visualizing and designing apps for all platforms. The process includes planning, design thinking, visual design, and interaction design. Emphasis will be placed on learning the UX process, design principles, aesthetics, web and mobile design concepts, color, typography, visual communication, design elements and patterns, and design process from concept to completion.

Prerequisite(s): ART 5500, ART 4600, **and** ART 2500 **or** Department Permission

Department: Art

ART 2600 - UX Visual Design

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

This course will immerse students in the practice of UX and Visual Design for Digital Interfaces. Students will learn the process for visualizing and designing apps for all platforms. The process includes planning, design thinking, visual design, and interaction design. Emphasis will be placed on learning the UX process, design principles, aesthetics, web and mobile design concepts, color, typography, visual communication, design elements and patterns, and design process from concept to completion.

Prerequisite(s): ART 5500, ART 4600, **and** ART 2500 **or** Department Permission

Department: Art

ART 2700 - Coding for Designers

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

This will be a hands-on course in which students will create coded prototypes with an interactive and responsive interface. In doing so, students will learn and apply technical skills such as HTML/CSS, jQuery, PHP, and CMS such as WordPress, as well as incorporate Interaction Design and UX Design theories.

Prerequisite(s): ART 5500 and Math Proficient **or** Department Permission

Department: Art

ART 4000 - Designing with Type

3 Credit(s) Hours: *4 hrs.*

A studio course using typography as a design tool with a focus on the creative and aesthetic use of letter forms for visual communication problem-solving.

Department: Art

ART 4300 - Digital Illustration

3 Credit(s) Hours: *4 hrs.*

Introduction to the computer program Adobe Illustrator and its use as a tool to create and manipulate illustrations and graphic designs for the development of portfolios.

Prerequisite(s): ART 5500 or Department permission

Department: Art

ART 4400 - Still Life Painting

3 Credit(s) Hours: *4 hrs.*

A studio course using methods of oil and/or acrylic painting in a concentrated approach to the expressive possibilities of still life as a subject matter.

Prerequisite(s): ART 5900 **or** Department Permission

Department: Art

ART 4500 - Computer Art

3 Credit(s) Hours: *4 hrs.*

Introductory course to the computer as a complete publishing system and as a graphic design and illustration tool for creating finished portfolio pieces.

Prerequisite(s): ART 5500

Department: Art

ART 4600 - Photoshop as a Design Tool

3 Credit(s) Hours: *4 hrs.*

Introduction to core features and functions of this photo-based image editing program. Students will manipulate, re-touch, apply effects, import and scan images, perform color and tonal corrections and use illustration and paint techniques. This design and illustration tool will be used in the development of portfolio work.

Prerequisite(s): ART 5500 or Department permission

Department: Art

ART 4800 - The Art of 3-Dimensional Animation

3 Credit(s) Hours: *4 hrs.*

Introduction to features and functions of computer assisted 3-dimensional image and animation. Basic 3-dimensional animation concepts utilizing industry software are covered, as well as the workflow involved in modeling, animation and rendering techniques in a 3-dimensional environment.

Prerequisite(s): ART 5500 or Department permission

Department: Art

ART 4900 - The Art of Storyboarding

3 Credit(s) Hours: *4 hrs.*

An exploration of the preproduction stage of visual storytelling of all types: live-action, animation, and multimedia. Cinematic principles of continuity, editing, and methods of composition to communicate time-based visuals effectively are studied. Students will create storyboards, by hand and computer-generated, and animatics.

Prerequisite(s): ART 5500 or Department permission

Department: Art

ART 5100 - Darkroom Photography I

3 Credit(s) Hours: *4 hrs.*

Learn to see photographically while using your 35mm camera. Develop black and white film and print your own enlargements during this intensive introduction to photographic image-making.

Department: Art

ART 5200 - Darkroom Photography II

3 Credit(s) Hours: *4 hrs.*

Students refine the ideas and techniques presented in Photography I. Emphasis is placed on developing a personal vision, while improving darkroom skills, lighting situations and putting together a cohesive portfolio of prints.

Prerequisite(s): ART 5100

Department: Art

ART 5300 - Photojournalism I

3 Credit(s) Hours: *4 hrs.*

Students will learn documentary storytelling and develop technical skills and visual literacy through digital photography. Skills will be acquired through weekly assignments that simulate being on assignment for a publication, research, group critiques, editing and layout, photo-history lectures and readings. Skills can be applied in fine arts, editorial and commercial photography.

Prerequisite(s): ART 9400

Department: Art

ART 5400 - Photojournalism II

3 Credit(s) Hours: *4 hrs.*

Designed for students who have studied photography and journalism. Combines the photo essay with spot news reporting. The concept of photojournalism as it applies to the daily newspaper, illustrated magazine and photo agency will be discussed.

Prerequisite(s): ART 5300

Department: Art

ART 5500 - Design Foundations

3 Credit(s) Hours: *4 hrs.*

Supplies the groundwork necessary to all studio courses as the principles of design are introduced. Using basic materials and techniques, the study of line, value, color, shape, and texture in two-dimensional composition, is included.

Required for Art Majors in first semester.

See Department Advisor.

Department: Art

ART 5600 - 3-Dimensional Design

3 Credit(s) Hours: *4 hrs.*

Color theory and applications in two- and three-dimensional composition. The study of concepts in three-dimensional design includes problems of volume and space.

Prerequisite(s): ART 5500

Department: Art

ART 5700 - Drawing I

3 Credit(s) Hours: *4 hrs.*

Introduction to the basic concepts of drawing. In order to cultivate the ability to see, to create form, and to enjoy visual experiences, students will draw from still life model and from the live model.

Required for Art Majors in first semester.

See Department Advisor

Department: Art

ART 5800 - Drawing II

3 Credit(s) Hours: *4 hrs.*

Continued study of various drawing media. Exploration of traditional and experimental drawing techniques.

Prerequisite(s): ART 5700 or Department permission

Department: Art

ART 5900 - Painting I

3 Credit(s) Hours: *4 hrs.*

Studio course in oil and acrylic painting serves as an aesthetic foundation for solutions to expressive problems of representational and abstract form, color and space.

Department: Art

ART 6000 - Painting II

4 Credit(s) Hours: *6 hrs.*

Continuation of ART 5900 gives students an opportunity for advanced work in painting, self-expression and creativity.

Prerequisite(s): ART 5900 or Department permission

Department: Art

ART 6100 - Sculpture I

3 Credit(s) Hours: *4 hrs.*

Study and work in a studio setting. Techniques and aesthetics of modern sculptural concepts emphasized.

Department: Art

ART 6200 - Sculpture II

4 Credit(s) Hours: *6 hrs.*

Advanced students in creative sculpture explore new techniques.

Prerequisite(s): ART 6100 **or** Department permission

Department: Art

ART 6300 - Ceramics I

3 Credit(s) Hours: *4 hrs.*

An introduction to problems in ceramic design, materials and techniques. Emphasis is on the use of the potter's wheel, glazing and firing.

Department: Art

ART 6400 - Ceramics II

3 Credit(s) Hours: *4 hrs.*

Students are involved with solutions to the intermediate problems in ceramic design. Emphasis is on further use of the potter's wheel, glazing and hand building.

Prerequisite(s): ART 6300

Department: Art

ART 6500 - Mixed Media

3 Credit(s) Hours: *4 hrs.*

Enables students to make use of combinations of drawing, painting and sculpture techniques, including the use of innovative materials.

Department: Art

ART 6800 - Illustration

3 Credit(s) Hours: *4 hrs.*

A studio course for the development of basic illustration concepts and skills including drawing, painting and using various media. Students will develop illustration techniques appropriate to the field of visual communication and the development of a portfolio.

Department: Art

ART 6900 - Illustration Style

3 Credit(s) Hours: *4 hrs.*

A studio course for the development of a personal style of illustration that can have mass market appeal as its base.

Prerequisite(s): ART 5500

Department: Art

ART 7200 - Web Page Design

3 Credit(s) Hours: *4 hrs.*

Evaluation and design of Web pages using software including Quark X-press, Illustrator, Flash and Dreamweaver.

Prerequisite(s): ART 4600 and either ART 7400 **or** ART 4000

Department: Art

ART 7300 - Digital Publication Design

3 Credit(s) Hours: *4 hrs.*

Introduction to the computer program Adobe InDesign and its use as a page layout tool for designing print and digital publications including magazines, books, brochures, and more.

Prerequisite(s): ART 5500 or Department permission

Department: Art

ART 7400 - Typography

3 Credit(s) Hours: *4 hrs.*

This studio course introduces the fundamentals of typography as a design discipline and its practical applications. Students will learn the principles and terminology of type and how to design with it to communicate effectively.

Prerequisite(s): ART 5500

Department: Art

ART 7500 - Graphic Design and Advertising

3 Credit(s) Hours: *4 hrs.*

In this studio course, students will explore an array of graphic design and advertising assignments with an emphasis on concept development and creative visual problem-solving and will create professional quality portfolio work.

Prerequisite(s): ART 5500

Department: Art

ART 7900 - Figure Painting

3 Credit(s) Hours: *4 hrs.*

The basic principles of painting the human figure from direct observation of a model. Concentration on the study of color applied to figure painting.

Prerequisite(s): ART 5900

Department: Art

ART 8072 - Ceramic Sculpture

3 Credit(s) Hours: *4 hrs.*

Techniques and problem-solving in the construction of a mid-and large- scale ceramic sculpture and bas-relief with emphasis on adapting particular fabrication methods to individual imaginative composition.

Department: Art

ART 8348 - Figure Modeling and Carving

3 Credit(s) Hours: *4 hrs.*

The human figure at rest is studied from the anatomical, analytical and compositional point of view. A live model, slides and demonstration of figurative works are part of the course.

Prerequisite(s): ART 6100

Department: Art

ART 8452 - Intermediate Figure Modeling and Carving

3 Credit(s) Hours: *4 hrs.*

Study of the representation of the human figure in motion. Clay and stone will be the predominant materials used.

Prerequisite(s): ART 8348

Department: Art

ART 8547 - Landscape Painting

3 Credit(s) Hours: *4 hrs.*

Methods of oil and/or acrylic painting in a concentrated approach to the expressive possibilities of the landscape as subject matter.

Department: Art

ART 8651 - Intermediate Landscape Painting

3 Credit(s) Hours: *4 hrs.*

The experimental approach to landscape painting will be extended within a more personally directed context.

Prerequisite(s): ART 8547

Department: Art

ART 8746 - Transparent Watercolor Painting

3 Credit(s) Hours: *4 hrs.*

The interactions of brush and color with paper and water and the use of different color-wash techniques.

Department: Art

ART 8850 - Intermediate Watercolor Painting

3 Credit(s) Hours: *4 hrs.*

Advanced study of transparent watercolor painting, using wet-into-wet and glazing techniques.

Prerequisite(s): ART 8746

Department: Art

ART 9063 - Introduction to Welded Sculpture

3 Credit(s) Hours: *4 hrs.*

The different processes of joining metals used in the creation of a welded sculpture as various techniques of sculpting in metal are explored.

Prerequisite(s): ART 6100

Department: Art

ART 9400 - Digital Photography I

3 Credit(s) Hours: *4 hrs.*

Students will develop and define their own creative ideas through independent projects using digital photographic tools. Emphasis will be placed upon gaining a thorough working knowledge of Adobe Photoshop.

Department: Art

ART 9600 - The Art of Animation

3 Credit(s) Hours: *4 hrs.*

Introduction to animation exploring the basic principles and applications to different media, encompassing techniques from analog animation (stop-motion and hand drawn) through digital production techniques.

Prerequisite(s): ART 5500 or Department permission

Department: Art

ART 9700 - Ceramic Design

3 Credit(s) Hours: *6 hrs.*

The practical applications of ceramics from both a functional and decorative approach. Production techniques for creating multiples such as tableware, tiles and architectural details will be explored.

Prerequisite(s): ART 6300

Department: Art

Behavioral and Social Science: College Now

BEH 7000 - Introduction to Research

4 Credit(s) Hours: *4 hrs.*

To produce research projects in the behavioral sciences with the skill and knowledge necessary for carrying out individual research projects, students are familiarized with theoretical issues in scientific research, methodology, and statistical measurement.

Prerequisite(s): Enrollment in "College Now" Program

Department: Behavioral Sciences

BEH 7100 - Conducting Research

4 Credit(s) Hours: *4 hrs.*

To carry out and bring to completion an individual research project in the areas of the behavioral sciences; course work includes actual testing of subjects and of hypotheses, collection of data, statistical analysis, and assessing the implications of research findings for further investigation. The format of the written report will conform to the American Psychological Association guidelines.

Prerequisite(s): BEH 7000

Department: Behavioral Sciences

BSS 100 - Behavioral and Social Science: The Individual and His/Her World

3 Credit(s) Hours: *3 hrs.*

The concepts and methodologies of sociology, psychology, economics, political science and history helps students understand issues of current significance.

Prerequisite(s): Enrollment in "College Now" Program

Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

Behavioral Sciences

BEH 2100 - Introduction to Women's, Gender, and Sexuality Studies

3 Credit(s) Hours: *3 hrs.*

The purpose of this interdisciplinary class is for you to analyze structures of power and dimensions of difference by focusing on gender and sexuality and the ways in which it intersects with other social identities, such as race, class, ethnicity, nationality, ability, and age, among others. We will read a range of texts across disciplines (i.e., English, history, sociology, anthropology, and biology, etc.) You will learn about concepts of sex/gender systems, histories of social movements, interdisciplinary modes of inquiry, intersectional identities, binaries and taxonomies, diversity and multiculturalism, political debates, and cultural productions. You will engage in open discussion about social issues addressed in the works we will read. In addition, you will write exploratory and argumentative essays in which you interpret gender issues in your lives and in the world for your own research project.

Department: Behavioral Sciences

BEH 5050 - Integrative Studies Seminar

1 Credit(s) Hours: *2 hrs.*

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in other courses in the Integrative Studies Link.

Department: Behavioral Sciences

Biological Sciences

BIO 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of biology is developed individually between student and faculty member and must be approved by the Department.

Department: Biological Sciences

BIO 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

This course does not satisfy the Biology Major elective requirement.

Department: Biological Sciences

BIO 100 - Topics in Biology

3 Credit(s) Hours: *3 hrs.*

For non-science majors and those who plan to transfer to senior colleges within CUNY. Through lecture and discussion, selected biological topics, such as evolution, ecology, genetics, and human biology are explored. For each topic, interactive computerized lab experiences involving formulating hypotheses and the process of scientific inquiry are conducted. In addition, current ethical issues in science are studied.

Required Core: Life and Physical Sciences

Department: Biological Sciences

BIO 1100 - Human Anatomy and Physiology I

4 Credit(s) Hours: *6 hrs. (2 hrs. lecture, 4 hrs. lab)*

Not recommended for non-science majors.

A one-year, two-semester course in human anatomy and physiology. Examines complementary relationships between structure and function, dynamic aspects and integration of organs and organ systems in the maintenance of normal functioning of the whole organism. Dissections and other laboratory experiences including computer-assisted study of physiological principles.

This course does not satisfy the Biology Major elective requirement.

Prerequisite(s): CUNY English and Math Proficient

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 1200 - Human Anatomy and Physiology II

4 Credit(s) Hours: *6 hrs. (2 hrs. lecture, 4 hrs. lab)*

Not recommended for non-science majors.

A one-year, two-semester course in human anatomy and physiology. Examines complementary relationships between structure and function, dynamic aspects and integration of organs and organ systems in the maintenance of normal functioning of the whole organism. Dissections and other laboratory experiences including computer-assisted study of physiological principles.

This course does not satisfy the Biology Major elective requirement.

Prerequisite(s): BIO 1100

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 1300 - General Biology I

4 Credit(s) Hours: *6 hrs. each semester*

Not recommended for non-science majors.

A one-year, two-semester course for students who plan to major in biological sciences, or prepare for a preprofessional program. Classroom and laboratory sessions focus on biological topics as they apply to all life, to recent scientific findings and how they advance understanding classical concepts, the interaction of environmental and biological forces to produce life.

Prerequisite(s): Passed, exempt, or completed developmental course work for the CUNY Assessment Tests in Reading, Writing, and ACCUPLACER CUNY Assessment Test in Math

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 1400 - General Biology II

4 Credit(s) Hours: *6 hrs. each semester*

Not recommended for non-science majors.

A one-year, two-semester course for students who plan to major in biological sciences, or prepare for a preprofessional program. Classroom and laboratory sessions focus on biological topics as they apply to all life, to recent scientific findings and how they advance understanding classical concepts, the interaction of environmental and biological forces to produce life.

Prerequisite(s): BIO 1300

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 1800 - The Biology of the Human Body

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. laboratory)*

For non-science majors and those who plan to transfer to senior colleges within CUNY. This course will offer a one-semester overview of anatomy and physiology of all organ systems of the human body. The interrelationships between organ systems will be emphasized to provide a holistic view, practical applications to healthcare and reinforcement of health literacy skills. Through lecture and discussion, the processes of the human body will be explored. For each topic, interactive computerized lab experiences involving application of the process of scientific inquiry will be conducted. In addition, current ethical issues in medicine and healthcare will be studied.

Required Core: Required Core: Life and Physical Sciences

Department: Biological Sciences

BIO 2100 - Comparative Anatomy

4 Credit(s) Hours: *6 hrs. each semester*

Form, structure, classification and adaptive modifications of vertebrates, animals with backbones.

Through dissections, representative vertebrates (dogfish and cat) are studied, vertebrates' major body systems and development of various representative structures are compared, relationships between form and function, and the use of certain structure in specific environments.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400

Department: Biological Sciences

BIO 2200 - Developmental Biology

4 Credit(s) Hours: 6 hrs. each semester

Embryonic development and its regulatory mechanisms will be studied in representative invertebrate and vertebrate species, including the processes of gametogenesis and fertilization. Current experimental molecular and cellular techniques and results are interwoven with the historical evidence of the subject. Microscopic studies, films, drawings, models and student experiments are used to show the major stages of development and the dynamic processes of embryogenesis.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400

Prerequisite(s)/Corequisite(s): CHM 1100

Department: Biological Sciences

BIO 2800 - Biology of Women

3 Credit(s) Hours: 3 hrs.

Major normal anatomical and physiological processes unique to the human female are considered, as well as a focus on recent research about women's biology, female health issues and related illnesses.

Discussion of myths and gender stereotypes about women's biology and their influence on female/male behaviors.

This course does not satisfy the Biology Major elective requirement.

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 3300 - Introduction to Modern Concepts of Biology

4 Credit(s) Hours: 5 hrs.

For non-science and liberal arts majors and those who plan to transfer to senior colleges. Focus is on major biological topics and principles, with emphasis on how biology influences human issues and problems. Lectures, discussions and hands-on laboratory experiences provide insight into past, present and future aspects of the diversity of life on earth. Topics considered include: genetics, ecology, evolution, and cell biology.

This course does not satisfy the Biology Major elective requirement.

Required Core: Life and Physical Sciences

Department: Biological Sciences

BIO 3700 - Human Genetics

3 Credit(s) Hours: 3 hrs.

Introduces the principles of genetics with applications to human beings. The different systems by which characteristics are inherited, representative human hereditary problems, roles of heredity and environment, a historical approach to genetics research, chromosomal disturbances and some diseases, modern components of genetics in relation to human fertilization, surrogacy and genetic engineering.

This course does not satisfy the Biology Major elective requirement.

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 3900 - The Biology of Aging

3 Credit(s) Hours: 3 hrs.

Biological aspects of the aging process, including: definitions, characteristics and biological theories of aging, recent biological research, effects of disease and prescription drugs, determination of each student's aging profile, factors which modify the rate of the aging process including nutrition and exercise.

This course does not satisfy the Biology Major elective requirement.

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 4900 - People and the Environment - Biological Emphasis

3 Credit(s) Hours: 3 hrs.

To promote understanding of humankind's interdependence with the environment and to instill responsibility for environmental quality, the biological sciences are emphasized, including pollution control, ecological balance in nature, growth and control of human populations and identifying environmental issues.

This course does not satisfy the Biology Major elective requirement.

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 5000 - General Microbiology

4 Credit(s) Hours: 6 hrs. each semester

Examines the diverse structure and activities of microbes in a wide number of environs, including the use of microbes in food production, antibiotic production, and bioremediation. Basic microbiological techniques are conducted such as staining, aseptic transfer, and pure culture techniques. More advanced laboratories are performed demonstrating the interdisciplinary nature of microbiology including collection of marine water and sediment samples for cultivation of algae and the isolation of antibiotic-producing microbes, and studies of various microbial relationships using plants.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400 and CHM 1100

Recommended: CHM 1200

Department: Biological Sciences

BIO 5050 - Integrative Studies Seminar

1 Credit(s) Hours: 2 hrs.

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in other courses in the Integrative Studies Link.

Department: Biological Sciences

BIO 5100 - Microbiology in Health and Disease

4 Credit(s) Hours: 6 hrs. each semester

For students preparing for Nursing, Physician's Assistant and other allied health sciences only.

This course examines the role of microbes as infectious agents responsible for a wide variety of diseases and medical conditions. Disease transmission, treatment, and prevention are considered. The laboratory focuses on the basic methods to cultivate, identify and control microbial growth.

This course does not satisfy the Biology Major elective requirement.

Nursing students must take BIO 5100 before or with NUR 2100. Nursing students who withdraw from BIO 5100 cannot continue in NUR 2100.

Prerequisite(s): BIO 1200

Department: Biological Sciences

BIO 5200 - Marine Biology

4 Credit(s) Hours: 6 hrs. each semester

Lecture and laboratory study of interrelationships between various environmental factors (physical, chemical and biological) and the distribution and physiology of selected marine organisms. Special attention to ecological techniques and taxonomic methods. Field trips supplement laboratory work.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400 and CHM 1100

Department: Biological Sciences

BIO 5300 - Ecology

4 Credit(s) Hours: 6 hrs. each semester

Concepts and principles relating to structure and function of populations, communities and ecosystems, energy flow, biogeochemical cycling, community structure, population growth and population interactions, disturbed and undisturbed ecosystems. Designed for science majors, course includes lectures, films, field trips, discussion, research project and report.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400

Department: Biological Sciences

BIO 5700 - Biotechnology: Cell Culture and Cloning

4 Credit(s) Hours: *6 hrs. /2 hrs. lecture, 1 hr. recitation, 3 hrs. laboratory*

Biological principles underlying animal and plant tissue culture and cloning techniques are taught using current cell culture research publications. The formation and maintenance of primary and continuous culture, monolayer and suspension cultures, cell separation techniques, and cell cloning studies are conducted. Cell morphology in vitro, callus formation, cytochemistry, immunocytochemistry, autoradiography, chromosome spread preparation and karyotyping, western blotting and enzyme-linked immunoabsorbance assays are performed and analyzed. Photomicroscopy and independent research projects on the initiation and maintenance of primary cell cultures from such sources as chick embryos are also performed.

Prerequisite(s): BIO 1400 and CHM 1100 or Department Permission

Department: Biological Sciences

BIO 5800 - Recombinant DNA Technology

4 Credit(s) Hours: *6 hrs. /2 hrs. lecture, 1 hr. recitation, 3 hrs. laboratory*

The theory and application of recombinant DNA techniques includes study of genomics and proteomics, molecular aspects of recombinant DNA technology and genetic engineering, microbial, animal and plant protein expression. Ethical, legal and social concerns surrounding the field of biotechnology are addressed. Basic biotechnological laboratory techniques required for the study of genomics, genetic engineering and recombinant DNA technology are conducted.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400 and CHM 1100 or Department permission

Department: Biological Sciences

BIO 5900 - Genetics

4 Credit(s) Hours: *6 hrs. each semester*

For Biology Majors only.

This course examines transmission of the genetic material, molecular genetics and the genetics of population. Topics considered in both lecture and laboratory include: quantitative analyses of eukaryotic linkage, extra nuclear inheritance, mutation studies, cytogenetical chromosomes studies, gene amplification, DNA extraction, DNA "fingerprinting," protein gel electrophoresis, and transformation of prokaryotic genetic material by viral vectors. Techniques developed and utilized in the Human Genome Project and genetic engineering are emphasized. Research papers and in-class presentations are required.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400 and CHM 1100

Department: Biological Sciences

BIO 6000 - Computer Applications in Bioinformatics

3 Credit(s) Hours: *4 hrs. /2 hrs. lecture, 2 hrs. laboratory*

Cross-Listed With: CIS 6000

Introduction to biochemistry topics, genomics, and computer-related applications in Bioinformatics. Analyses of genetic sequences and their corresponding three-dimensional structures, computer-aided sequence searches and comparisons (homologies). The algorithms used to perform searches and comparisons are provided. Computers are used to implement gene analyses in the area of DNA, protein, and RNA prediction of sequences and structures. The course includes a computer laboratory and biological, wet laboratory in genomics.

Prerequisite(s): MAT 1400 and BIO 1300

Department: Biological Sciences

BIO 6100 - Research Methods

2 Credit(s) Hours: *2 hrs.*

Introduction to the nature of scientific investigation and acquiring skills needed to develop a research problem. Emphasis placed on reading primary sources of scientific literature, experiment design, data presentation and analysis, and preparation of a literature review.

Prerequisite(s): Passed, exempt, or completed developmental course work for the CUNY Assessment Tests in Reading, Writing, and ACCUPLACER CUNY Assessment Test in Math **and** Department permission

Corequisite(s): BIO 6200

Department: Biological Sciences

BIO 6200 - Biological Instrumentation

2 Credit(s) Hours: *3 hrs.*

Theory and practical operation of basic laboratory instruments and techniques, including analytical balances, Ph meters, UV/VIS spectrophotometers, atomic absorption spectroscopy, chromatography, gel electrophoresis, computer-based instrumentation and other techniques.

Prerequisite(s): Passed, exempt, or completed developmental course work for the CUNY Assessment Tests in Reading, Writing, and ACCUPLACER CUNY Assessment Test in Math **and** Department permission

Corequisite(s): BIO 6100

Department: Biological Sciences

BIO 6500 - Molecular and Cellular Biology

4 Credit(s) Hours: 6 hrs. each semester

The structure and functions of cell components are covered. Emphasis will be placed on the molecular composition of cells and the molecular mechanisms a cell uses to grow and divide. Experiments and computer exercises are designed around fundamental questions in eukaryotic cell biology with an emphasis on biochemical and molecular biological techniques.

This course satisfies the elective credit requirement for Biology Majors.

Prerequisite(s): BIO 1400 and CHM 1100

Department: Biological Sciences

BIO 7000 - The Biology of Nutrition

3 Credit(s) Hours: 3 hrs.

Increased food processing, chemical additions to food, and the great variety of available foods makes it important to understand the basic ideas of modern nutrition. Such concepts as biochemical individuality as related to nutrition for optimum health are integrated with surveys of carbohydrate, protein and fat metabolism. Also studied are the role of vitamins and minerals in metabolic processes, food selection, special diets during illness, and safety of the food supply. Students analyze their own diet.

This course does not satisfy the Biology Major elective requirement.

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 9100 - Biostatistics

4 Credit(s) Hours: 4 hrs.

Cross-Listed With: MAT 9100

An introduction to the theories and techniques relating to probability, statistics and data analysis as pertaining to biology. Discrete and continuous probability distributions are studied including binomial, normal and t-distributions. Classical and Bayesian statistics, estimation, hypothesis testing will be emphasized. SPSS software will be introduced and used in the laboratory achievements.

Students who have completed MAT 19A0 or MAT 2010 or MAT 2000 or MAT 2200 /BA 2200 will not receive credit for this course.

Prerequisite(s): MAT 9010 or MAT 9B0 or MAT 900

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Biological Sciences

BIO 9201 - Research I

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Prerequisite(s): Department permission

Department: Biological Sciences

BIO 9202 - Research II

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Prerequisite(s): Department permission

Department: Biological Sciences

BIO 9203 - Research III

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Prerequisite(s): Department permission

Department: Biological Sciences

BIO 9204 - Research IV

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Prerequisite(s): Department permission

Department: Biological Sciences

Business Administration

BA 81XX - Independent Study

1-3 Credit(s) Hours: 1-3 *hrs.*

Independent study of business administration is developed individually between student and faculty member and must be approved by the Department.

Department: Business

BA 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Business

BA 1100 - Fundamentals of Business

3 Credit(s) Hours: *3 hrs.*

The interrelationships among management, labor, and government in both the domestic and global environments. Emphasis is placed on business objectives, strategies, and operational implementation. Contemporary trends are studied in the areas of management, marketing, human resources and finance, including legal and ethical implications.

This course is not open to students who have completed BA 1000.

Department: Business

BA 1200 - Business Law I

3 Credit(s) Hours: *3 hrs.*

The American legal system: analysis of the essential principles of law in the operation of a business entity, with emphasis on the application of the laws of torts and contracts. Review of appropriate Appeals Court decisions.

Department: Business

BA 1300 - Business Law II

3 Credit(s) Hours: *3 hrs.*

The legal principles of agency, partnership and corporations. Legal problems of corporate and non-corporate forms of organizations, consideration of rights, duties, obligations of employment and other special contractual and business relationships.

Prerequisite(s): BA 1200

Department: Business

BA 1400 - Principles of Marketing

3 Credit(s) Hours: *3 hrs.*

Consideration of marketing strategy from a customer's point of view. Course deals with principles and practices of the distribution process, including product pricing, promotion, distribution channels, market research, and governmental regulations.

Prerequisite(s): BA 1100

Department: Business

BA 2200 - Business Statistics

4 Credit(s) Hours: *4 hrs.*

Cross-Listed With: MAT 2200

An introduction to probability and statistics as they apply to business applications including data summary measures, discrete random variables and probability distributions, sampling methodologies and analysis, hypothesis testing and regression analysis. Special emphasis will be given to solutions of practical business problems.

Students who have completed MAT 19A0 or MAT 2010 or MAT 2000 or MAT 9100/BIO 9100 will not receive credit for this course.

Prerequisite(s): MAT R300 or MAT 9010 or MAT 9B0 or MAT 900 with a grade of "C" or higher

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Business

BA 3100 - Organizational Behavior and Management

3 Credit(s) Hours: *3 hrs.*

The impact of organizational behavior on individuals, the economy and society, the role of organizations. Topics include: improving performance and productivity, individual motivation, leadership style and the effect of the external environment on the organization.

Prerequisite(s): BA 1100

Department: Business

BA 3300 - Business Communications

3 Credit(s) Hours: *3 hrs.*

The principles of writing effective business communications, including letters, reports, memoranda, directives. Emphasis on organization, language, personal relations and application of business psychology in writing.

Prerequisite(s): Passed, exempt, or completed developmental course work for the CUNY Assessment Test in Writing

Department: Business

BA 5050 - Integrative Studies Seminar

1 Credit(s) Hours: *2 hrs.*

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in other courses in the Integrative Studies Link.

Department: Business

BA 5200 - Advertising: Theory and Practice

3 Credit(s) Hours: *3 hrs.*

Advertising, its methods and its role in business. An introduction to media, copy, research, layout, production, direct mail, and campaign strategy.

NOTE: BA 9229 must be taken in lieu of BA 5200 for A.A.S. Business Administration students with a grade point average ≥ 3.00

Prerequisite(s): BA 1400

Department: Business

BA 6000 - Introduction to Computer Concepts

3 Credit(s) Hours: *4 hrs.*

Lab-oriented course introduces microcomputer hardware and software, emphasizing the "Big Four" business applications: word processing, electronic spreadsheets, database management, and presentation graphics. Conceptual and operational skills necessary to successfully compete in the modern technological business environment.

Not open to Computer Information System Majors. Students who completed CP 1100 or CIS 1100 will not receive credit for this course.

Department: Business

BA 6100 - Spreadsheet Applications in Business

3 Credit(s) Hours: *3 hrs.*

Advanced and intensive work with electronic business spreadsheets in a lab-oriented course using Microsoft Excel. Includes ranges, functions, charts, conditional functions and lookups, data sorting and queries, macros, multiple worksheets, security, and linking data.

Prerequisite(s): BA 6000 or equivalent

Department: Business

BA 6200 - Management Information Systems

3 Credit(s) Hours: *3 hrs.*

Introduction to the use of information systems, including management information systems (MIS), organization of information, and systems analysis and design. Advanced applications of spreadsheets, database management software, and ethical and globalization issues are also introduced.

Department: Business

BA 9229 - Field Experience in Business Administration

3 Credit(s) Hours: *9 hrs. with a minimum of 8 hours of field work*

A capstone experience for students, allowing them to apply the theories and principles learned in class to the practical business environment. Students work directly with managers and employees in marketing, human resources management, and information systems management.

This course is only open to Business Administration majors. NOTE: BA 9229 must be taken in lieu of BA 5200 for A.A.S. Business Administration students with a grade point average < 3.00

Prerequisite(s): BA 1400

Department: Business

Business Administration: College Now

BA 1000 - Business Administration: Introduction to Business

3 Credit(s) Hours: *3 hrs.*

The dynamic world of the business environment. Included are: the business organization, from the sole proprietor (entrepreneur) to the corporate entity, four functions of management (planning, organizing, leading and controlling), and four elements of the marketing mix (product, price, promotion and distribution). Practical applications of management and marketing skills in small business, and in large corporations, the profit motive as a key feature in the American free enterprise system, legal aspects of operating a business, and the role of computers in business.

This course is equivalent to BA 1100.

Prerequisite(s): Enrollment in the "College Now" Program

Department: Business

Business of Fashion

BF 1900 - Fashion Forecasting

3 Credit(s) Hours: *3*

Students will learn to identify socio-cultural indicators in fashion, past and present trends, and apply methods for determining future trends in fashion and related industries culminating in a trend forecasting project.

Department: Business

BF 3100 - Elements of Retail Management

3 Credit(s) Hours: *3*

Introduction to management techniques considered essential to the planning, organization, control and operation of retail establishments. The fundamentals underlying modern merchandising practices, recent developments in trading area analysis, shopping centers, consumer relations, warehousing, transportation, stock control, and data processing. Retail case studies and field trips.

Previously listed as RM 3100.

Department: Business

BF 3200 - Product Development

3 Credit(s) Hours: 3

Introduction to the concepts and methods by which retailers create special, store-branded merchandise for targeted customer segments. The process from product research through development and distribution is studied.

Previously listed as FM 3200.

Department: Business

BF 3300 - Salesmanship

3 Credit(s) Hours: 3 hrs.

Principles of selling based on modern marketing concepts. Consumer needs and desires combined with company objectives, contributions of the behavioral sciences to the study of consumer behavior and buying patterns, organization and control of wholesale, industrial, and retail sales.

Previously listed as RM 3300.

Department: Business

BF 3400 - Merchandising Planning and Control

3 Credit(s) Hours: 3

Basic merchandising principles to understand the principles of good merchandise planning and decision-making. Students acquire the ability to adjust to continually changing conditions in the retailing environment. Topics include stock planning, market evaluation, fashion forecasting and pricing.

Previously listed as RM 3400.

Prerequisite(s): BF 3100 or MM 3100

Department: Business

BF 3500 - Textiles

3 Credit(s) Hours: 3

The course familiarizes students with fashion fabrics, including their identification, characteristics, merits, limitations, care, sustainability, and with the product development, from research to product distribution.

Previously listed as FM 3500.

Prerequisite(s): BF 3100 or RM 3100. BF 3100 or RM 3100 NOT required for Fashion Design Majors.

Department: Business

BF 3900 - Fashion Sales Promotion

3 Credit(s) Hours: 3

Fashion activities that promote and stimulate the sale of fashion goods, practical experience in the preparation of special events, sales promotions and publicity similar to those initiated by apparel manufacturers, wholesalers and retailers, and criteria to analyze and evaluate these activities

Previously listed as FM 3900

Department: Business

BF 9229 - Field Experience in the Business of Fashion

3 Credit(s) Hours: 9

A capstone course for Business of Fashion majors. Eight (8) hours per week of supervised field experience in fashion or marketing management, plus one (1) hour seminar a week devoted to developing strategies for personal and career success.

Previously RM 9229 - Field Experience in Retail Merchandising.

Prerequisite(s): For Business of Fashion seniors only

Department: Business

Chemistry

CHM 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of chemistry is developed individually between student and faculty member and must be approved by the Department.

Department: Physical Sciences

CHM 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Physical Sciences

CHM 100 - Preview of General Chemistry

0 Credit(s) 2 Equated Credit(s) Hours: *2 hrs.*

Required of all students who wish to enroll in CHM 1100 and do not meet the prerequisites.

Lecture and workshop introduces chemical nomenclature, symbolism, structure of atoms and molecules, isotopes and atomic weight, simple chemical reactions and balancing chemical equations. Mathematics necessary for chemistry included. Critical reading of chemistry texts. Students receive intensive help with weak areas.

Developmental Course

Corequisite(s): CHM 1100

Prerequisite(s)/Corequisite(s): MAT 9010 or MAT 9B0 or MAT 900

Department: Physical Sciences

CHM 200 - Introduction to Green Chemistry

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. laboratory)*

This introductory course covers the basics in chemistry within the context of "green" principles and their applications. Laboratory modules explore relevant topics such as alternative energy, renewable resources, and environmental chemistry.

Fulfills the CHM 1100 Prerequisite.

Prerequisite(s)/Corequisite(s): MAT 9010 **or** MAT 9B0 **or** MAT 900

Required Core: Life and Physical Sciences

Department: Physical Sciences

CHM 500 - Chemistry for the Nutritional Sciences

5 Credit(s) Hours: *7 hrs.*

Principles of general chemistry with applications to biological systems and processes. Intended for students who wish to pursue a career in nutrition or other health-related fields. Not open to students who have completed CHM 1100. Utilization of the metric system, conversions, physical and chemical properties of matter, chemical nomenclature, symbolism, atomic and molecular structure, nuclear processes, the basics of chemical bonding and reactions, stoichiometry, and the properties of the states of matter, solids, liquids and gases. Students will also be introduced to the chemistry of solutions and colloids, acids and bases, which are integral in nutritional processes. Students will be able to proceed on to organic chemistry courses in health-related fields.

Prerequisite(s): Passed, exempt, **or** completed developmental course work for the CUNY Assessment Tests in Reading, Writing, and ACCUPLACER CUNY Assessment Test in Math **or** Department permission

Department: Physical Sciences

CHM 1100 - General Chemistry I

4 Credit(s) Hours: 6 hrs.

First of a two-semester lecture and laboratory sequence intended for science and engineering majors. Lecture topics include: atomic theory, stoichiometry of chemical reactions, types of reactions, introduction to acid-base, solubility, and reduction-oxidation chemistry, thermochemistry, quantum mechanical description of atoms, the elements and the periodic table, covalent bonding, molecular geometry, properties of real and ideal gases, liquids, and solids, and colligative properties of binary mixtures. Laboratory: An experimental approach to chemical sciences with emphasis on developing fundamental, reproducible laboratory techniques and a goal of understanding achieving precision and accuracy in laboratory experiments. Proper use of laboratory equipment and standard wet chemical methods are practiced. Areas of investigations include acid-base, precipitation, and reduction-oxidation chemistry, thermochemistry, ideal gases, spectroscopy, and green chemistry.

Student must complete CHM 1100 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): (1) MAT 9010 or MAT 9B0 or MAT 900 and CHM 200, or (2) MAT 9010 or MAT 9B0 or MAT 900 and Chemistry Ready Placement Score placing into **CHM 1100** or (3) Department Permission **OR**

Corequisite(s): (4) CHM 100 based on Chemistry Ready Placement Score. Contact Department for Chemistry Ready Placement information.

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

CHM 1200 - General Chemistry II

4 Credit(s) Hours: 6 hrs.

Second semester of a two-semester lecture and laboratory sequence intended for science and engineering majors. Lecture topics include: introduction to kinetics, physical and chemical equilibrium, acid-base and solubility equilibrium, thermodynamics, electrochemistry, coordination chemistry, and introductions to nuclear, main group, and organic chemistry. Laboratory: An experimental approach to chemical sciences with emphasis on developing fundamental, reproducible laboratory technique and a goal of understanding and achieving precision and accuracy in laboratory experiments. Proper use of laboratory equipment and standard wet chemical methods are practiced. Areas of investigations include acid-base, precipitation, and reduction-oxidation equilibrium, spectroscopy, qualitative analysis, electrochemistry, and chemical synthesis.

Student must complete CHM 1200 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): CHM 1100; or Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

CHM 3000 - Principles of Chemical Reactivity

3 Credit(s) Hours: 3 hrs.

Basic and advanced concepts of chemical reactivity, molecular geometry and electronic distribution in molecules. Topics include: Atomic theory, the periodic table, periodic trends and properties (with a focus on main group elements), bonding theories, Lewis structures and formal charges, valence bond theory, polar and non-polar molecules and bonds, resonance theory, molecular orbital theory: general principles; molecular orbitals for homo-nuclear and heteronuclear diatomic molecules, molecular orbital theory for organic molecules focusing on functional groups, principles of symmetry in molecules, chirality, isomerism, stereoisomerism, naming chiral centers; Newman, sawhorse and fisher projections, free-energy diagrams, reaction coordinates and transition states, reaction mechanisms: curved arrow symbolism, elementary steps.

Prerequisite(s): CHM 1100

Department: Physical Sciences

CHM 3100 - Organic Chemistry I

5 Credit(s) Hours: 9 hrs.

Modern concepts of organic chemistry includes: structure and bonding reaction mechanisms, stereochemistry, nomenclature and synthesis, and relationship between structure and reactivity of the functional groups representing the principal classes of organic compounds. Laboratory covers fundamental operations of organic chemistry including determination of physical properties, experimental reactions and procedures, basic instrumentation and analysis.

Student must complete CHM 3100 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): CHM 1200; or Department Permission

Department: Physical Sciences

CHM 3200 - Organic Chemistry II

5 Credit(s) Hours: 9 hrs.

Continued study of structure and reactivity of organic compounds including structure and bonding, nomenclature, synthesis, stereochemistry and reaction mechanisms of the important functional groups of organic compounds. Laboratory covers basic processes of organic chemistry, advanced instrumental methods, study of functional groups and derivatives and qualitative organic analysis. Select students may be introduced to research methods.

Student must complete CHM 3200 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): CHM 3100; or Department Permission

Department: Physical Sciences

CHM 9201 - Research I

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

CHM 9202 - Research II

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

CHM 9203 - Research III

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

CHM 9204 - Research IV

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

Chinese

CHI 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: 1-3 *hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

CHI 100 - Elementary Chinese I

3 Credit(s) Hours: *4 hrs.*

Introduction to Mandarin for students with no previous training in the language. Emphasis on pronunciation and basic sentence structure for conversational Chinese using the pinyin Romanization system. The Chinese writing system in simplified characters also introduced for reading purposes.

Not open to native speakers.

Department: Communications and Performing Arts

CHI 200 - Elementary Chinese II

3 Credit(s) Hours: *4 hrs.*

One-semester course in Mandarin for students with no previous training in the language. Further development of skills for conversing in Chinese. Emphasis on the learning of basic pronunciation, reading and writing are taught in characters.

Prerequisite(s): CHI 100

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

Community Health

COH 91E1 - Field Experience in Community Health

3 Credit(s) Hours: *1 class hr. plus 100 field hrs.*

Under Agency and Department supervision working in the field (100 hours are required), students broaden knowledge and deepen understanding of current Community Health issues. They work on Community Health problems, meet experienced professionals, familiarize themselves with the practices and methods used to ensure and protect the community and experience the "real life" challenges of the Community Health professional.

Prerequisite(s): COH 2000

Prerequisite(s)/Corequisite(s): COH 1300

Department: Health, Physical Education and Recreation

COH 1100 - Introduction to Community Health Services

3 Credit(s) Hours: *3 hrs.*

The determinants of health and the relationship between health and human behavior, including cultural, social, psychological and ethical issues are analyzed for their impact on illness behavior and quality of life.

Department: Health, Physical Education and Recreation

COH 1200 - Critical Issues in Community Health

3 Credit(s) Hours: *3 hrs.*

Ethical, social, legal and scientific issues underlying today's health problems. Students evaluate and relate basic health facts and concepts to critical health issues.

Department: Health, Physical Education and Recreation

COH 1300 - Epidemiology

3 Credit(s) Hours: *3 hrs.*

Introduction to factors which determine occurrence of disease in populations. Applies basic principles to disease prevention and health promotion at institution and community levels.

Prerequisite(s): COH 1100, COH 1200 and a passing score on the ACCUPLACER CUNY Assessment Test in Math or completion of developmental mathematics

Department: Health, Physical Education and Recreation

COH 1400 - Principles of Community Health Education

3 Credit(s) Hours: *3 hrs.*

Introduction to the profession of health education, its code of ethics, scope and future. Overview of learning and behavior change theories, health education and promotion core competencies, and strategies and interventions for protecting and promoting community health.

Department: Health, Physical Education and Recreation

COH 1500 - Healthcare in the United States

3 Credit(s) Hours: *3 hrs.*

Students will examine the context of the U.S. healthcare system, including patient care. Students will gain an understanding of patient care coordination and care management in today's changing and challenging healthcare industry. Students will critically examine the history of the U.S. healthcare system, healthcare models used in the U.S., and trends in the healthcare industry.

Department: Health, Physical Education and Recreation

COH 1600 - Patient Engagement Techniques in Community Health

3 Credit(s) Hours: *3 hrs.*

This course will provide students the opportunity to learn and practice techniques in self-management support and motivational interviewing strategies to facilitate behavior change in patients with chronic conditions. Students will gain an understanding of chronic disease management, wellness and disease prevention, and the basic skills used in health coaching. At course completion, students will have acquired skills to educate, engage, and support individual patients to improve the patient's health outcomes.

Corequisite(s): HPE 1200

Department: Health, Physical Education and Recreation

COH 1700 - Healthcare Coordination

3 Credit(s) Hours: *3 hrs.*

The goal of healthcare coordination is to improve patient outcomes with better care services. Care coordinators play a critical role in improving patient care. Students will learn how to effectively advocate for patients and interact with members of the healthcare team in finding solutions to provide high quality, value-based, and efficient care. Effective communication styles, assessing patient's needs and goals, and helping with patient's transitions of care are among the many topics covered in this course. Upon course completion, students will have acquired basic knowledge and skills to educate, engage, and support patients and their healthcare teams to improve health outcomes and quality of life.

Department: Health, Physical Education and Recreation

COH 2000 - Community Health Interventions

3 Credit(s) Hours: *3 hrs.*

Intervention strategies that promote and protect community health, including education, outreach, community organizing, advocacy, and health communication campaigns.

Prerequisite(s): COH 1200 or Departmental Permission

Department: Health, Physical Education and Recreation

Computer Information Systems

CIS 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of computer information systems is developed individually between student and faculty member and must be approved by the Department.

Department: Mathematics and Computer Science

CIS 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Mathematics and Computer Science

CIS 100 - Digital Society

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

A consideration of how digital technologies impact individuals' daily lives, social movements & civic activities. How the design and use of algorithms can be influenced by the culture and biases of those designing & using the technologies. Impacts on human rights; privacy; ethical concerns; and security. This course will help students achieve excellence in their studies and future endeavors by providing foundational knowledge that is critically important to understand digital influences on modern society. Facilitation and strengthening of critical-thinking skills, listening & analytical skills, and the application of the scientific method to exploring social phenomena.

Flexible Core: Individual and Society (Group D)

Department: Mathematics and Computer Science

CIS 1200 - Introduction to Operating Systems

3 Credit(s) Hours: *4 hrs.*

Microcomputer applications used in information systems environments including: microcomputer operating systems, graphics, microcomputer architecture and hardware, telecommunications, connecting personal computers via a local area network, and other selected topics.

Prerequisite(s): CP 500

Department: Mathematics and Computer Science

CIS 1500 - Applied Computer Architecture

3 Credit(s) Hours: *4 hrs./2 hrs. lecture, 2 hrs. laboratory*

This course will prepare students for the CompTIA A+ exam. Students will understand software and hardware topics covered by the exam, and have a more complete understanding of how computers and operating systems work. They will learn how to identify, resolve, and prevent malfunctions due to hardware and software problems.

Prerequisite(s)/Corequisite(s): CIS 1200

Department: Mathematics and Computer Science

CIS 2100 - Introduction to Web Page Development

4 Credit(s) Hours: *4 hrs.*

An introduction to the design and development of web pages. Students will develop their own web pages using web page development software.

Prerequisite(s): CP 500

Department: Mathematics and Computer Science

CIS 2200 - HTML Authoring and Javascript

4 Credit(s) Hours: *4 hrs.*

A second course in design and development of web pages emphasizing HTML coding, interactivity, animation and ecommerce applications of the World Wide Web. Students will develop their own web pages using web page software. This course covers the content of Microsoft Exam 98-383: Introduction to Programming Using HTML and CSS.

Prerequisite(s): CIS 2100 or TEC 5300

Department: Mathematics and Computer Science

CIS 3100 - Introduction to Database

3 Credit(s) Hours: *4 hrs.*

This course covers the basics of building relational databases and presenting the data in a user-friendly manner. The concepts of database normalization, data validation and referential integrity issues are stressed. The course utilizes Microsoft Access to cover these concepts but what is taught can easily be ported to large database systems such as Oracle and SQL Server. Data presentation layers using forms and reports are also covered as well as the basics of the SQL query language.

Prerequisite(s): CP 500

Department: Mathematics and Computer Science

CIS 3200 - Advanced Database Programming

4 Credit(s) Hours: *4 hrs.*

Building on concepts covered by the CIS 3100 (Introduction to Database) course and using VBA as the underlying programming language, this course focuses on accessing data contained in a typical database system and extracting and manipulating such data through code and the SQL language. Also covered are concepts of looping datasets, decisions using If/Then/Else and case statements. Both DAO and ADO data access methods are utilized and the code snippets needed to manipulate various controls of a typical presentation layer are covered.

Prerequisite(s): CIS 3100

Department: Mathematics and Computer Science

CIS 4500 - Network Server Administration

4 Credit(s) Hours: *4 hrs.*

An introduction to the concepts of networking and administration. Students will be exposed to the various components of a network environment - how to manage, maintain, secure, and troubleshoot them, and what their limitation and weaknesses are. This course will assist students in preparing for the CompTIA Network+ certification exam

Prerequisite(s): CIS 1500 with a grade of "C" or higher

Department: Mathematics and Computer Science

CIS 6000 - Computer Applications in Bioinformatics

3 Credit(s) Hours: *4 hrs. /2 hrs. lecture, 2 hrs. laboratory*

Cross-Listed With: BIO 6000

Introduction to biochemistry topics, genomics, and computer-related applications in Bioinformatics. Analyses of genetic sequences and their corresponding three-dimensional structures, computer-aided sequence searches and comparisons (homologies). The algorithms used to perform searches and comparisons are provided. Computers are used to implement gene analyses in the area of DNA, protein, and RNA prediction of sequences and structures. The course includes a computer laboratory and biological, wet laboratory in genomics.

Prerequisite(s): MAT 1400 and BIO 1300

Department: Mathematics and Computer Science

CIS 6100 - Systems Analysis

4 Credit(s) Hours: *4 hrs.*

Tools and methods used by management to develop systems for computer applications including: system investigation, input design, output design, file design, documentation, system testing, system implementation, hardware and software.

Prerequisite(s): CP 2100 or CIS 3100

Department: Mathematics and Computer Science

Computer Programming

CP 300 - Computers and Society

3 Credit(s) Hours: *3 hrs.*

Introduction to computers and how they are used, as well as the impact they have had on society. The course explores the impact computers and information technology have had on society and demonstrates lessons via a variety of software tools and information technology resources. The course material includes coverage of subject matter that will prepare the student for the Google Workspace certification exam.

Prerequisite(s): Exempt from or completion of developmental courses in Reading and Writing and (1) Successful completion of CUNY Mathematics remediation; **or** (2) Math Proficiency per CUNY guidelines.

Department: Mathematics and Computer Science

CP 500 - Introduction to Computer Programming

4 Credit(s) Hours: *4 hrs.*

Introduction to microcomputer programming used in data information environments including: microcomputer hardware, microcomputer operating systems, algorithm design using flowcharts, and computer programming.

Prerequisite(s): (1) Accuplacer placement of MAT 900 or above; or (2) MAT 9010 OR

Prerequisite(s)/Corequisite(s): MAT 9B0 **or** MAT 900

Department: Mathematics and Computer Science

CP 1000 - Computer Science Concepts, Tools and Methods

3 Credit(s) Hours: *3 hrs.*

Overview of computer science, including a general introduction to the concept of computers and computer systems, applications, programming and networking. These topics are introduced to the student with a broad outlook approach to the fundamental knowledge of the discipline and connects these concepts to practical applications of the role of computers in society, including areas such as security, privacy, ethics, and social networking. The interdisciplinary nature of computer science is stressed, by examples of its application to multiple fields (including life and physical sciences, linguistics, logic, mathematics, psychology, statistics, technology related studies, and general scientific discovery) are presented.

Students who have completed BA 6000 or CIS 1100 or CP 500 or CP 1100 or TEC 2500 will not receive credit for this course.

Prerequisite(s): (1) Successful completion of the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math; **or** (2) A passing score on both the Pre-Algebra and Elementary Algebra portion of the CUNY Mathematics Skills Test (COMPASS); **or** (3) Successful completion of both the Pre-Algebra and Elementary Algebra CUNY Mathematics remediation; **or** (4) Math Exemption; **or** (5) Established math proficiency designation per the CUNY Proficiency Index

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

CP 1100 - Introduction to Computers and Computer Applications

4 Credit(s) Hours: *4 hrs.*

Computer literacy course introducing uses of computers, components of a computer system, input/output devices, and flowcharting and programming in a contemporary programming language. Computer applications include word processing, spreadsheets, graphics, and database management systems, computer concepts and information processing.

Students who have completed BA 6000 or CIS 1100 or CP 500 or CP 1000 or TEC 2500 will not receive credit for this course.

Prerequisite(s): Exempt from or completion of developmental courses in Reading and Writing and (1) Successful completion of CUNY Mathematics remediation; **or** (2) Math Proficiency per CUNY guidelines.

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

CP 2100 - C++ Programming 1

4 Credit(s) Hours: *4 hrs.*

Introduction to programming in the C++ language including: variables, definitions, pointers, functions, loops, arrays, screen handling, and interfaces to UNIX and other languages.

Students who have completed CS 1200 will not receive credit for this course.

Prerequisite(s): CP 500

Department: Mathematics and Computer Science

CP 2200 - C++ Programming 2

4 Credit(s) Hours: *4 hrs.*

Covers advanced aspects of the C++ language, including pointers, compile and run-time storage allocation, data structures such as linked lists, sorting, searching and recursion.

Students who have completed CS 13A0 will not receive credit for this course.

Prerequisite(s): CP 2100

Department: Mathematics and Computer Science

CP 3100 - Visual Basic 1

4 Credit(s) Hours: *4 hrs.*

Computer programming using the language VISUAL BASIC. Covers the production of a graphical user interface and writing code to make use of it. Participants will create applications that make use of file and data management techniques.

Prerequisite(s): MAT 900

Department: Mathematics and Computer Science

CP 3300 - Visual Basic 2

4 Credit(s) Hours: *4 hrs.*

The second semester of VISUAL BASIC introduces advanced topics, including arrays, files, database access, advanced data handling, drag and drop techniques, graphics and ActiveX controls.

Prerequisite(s): CP 3100

Department: Mathematics and Computer Science

CP 6100 - Java Programming 1

4 Credit(s) Hours: *4 hrs.*

An introduction to the Java programming language, including algorithms, data representation, debugging and verification of programs and object-oriented programming concepts.

Prerequisite(s): (1) Successful completion of the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math; **or** (2) A passing score on both the Pre-Algebra and Elementary Algebra portion of the CUNY Mathematics Skills Test (COMPASS); **or** (3) Successful completion of both the Pre-Algebra and Elementary Algebra CUNY Mathematics remediation **and** one course in a programming language

Department: Mathematics and Computer Science

CP 6200 - Java Programming 2

4 Credit(s) Hours: *4 hrs.*

Second course in JAVA programming with an emphasis on Object-Oriented Programming (OOP), advanced programming concepts (Data Structures, Recursion), JAVA Graphics (advanced applet design) and additional selected topics.

Prerequisite(s): CP 6100 or CP 500

Department: Mathematics and Computer Science

CP 6600 - Computer Graphics and Design

4 Credit(s) Hours: *4 hrs.*

The concepts and structures of modern computer graphics and computer-aided design. Applications for presentation and business graphics, computer-aided design and drafting, engineering graphics. Hands-on experience with computers for programming practice and assignments.

Prerequisite(s): CP 500

Department: Mathematics and Computer Science

CP 7100 - Programming in Unix/Linux

5 Credit(s) Hours: *5 hrs.*

Introduction to the UNIX operating system and to programming using its functions and subprograms including: file structures, directories, security, utility programs, pointers, functions, screen handling with term cap definitions and interfaces to languages and databases.

Prerequisite(s): CIS 1200 and CIS 3100

Department: Mathematics and Computer Science

Computer Science

CS 13A0 - Advanced Programming Techniques

4 Credit(s) Hours: *4 hrs.*

A second course in programming designed to introduce advanced techniques. Program reliability, maintainability, and reusability are emphasized. Topics include: Module design and multiframe programs, file organizations, indexing and processing, abstract data types and storage classes, addresses, pointers, and dynamic storage allocation, program testing and debugging, and recursion and function parameters. Students who have completed CP 2200 will not receive credit for this course.

Prerequisite(s): CS 1200 with grade of "C+" or higher

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

CS 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of computer science is developed individually between student and faculty member and must be approved by the Department.

Department: Mathematics and Computer Science

CS 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Mathematics and Computer Science

CS 1200 - Introduction to Computing

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Algorithms, programs, data representation, debugging and verification of programs. Numeric and non-numeric programming applications include searching and sorting algorithms, function and procedures, and number theory problems.

Students who completed CP 2100 will not receive credit for this course.

Prerequisite(s)/Corequisite(s): MAT 1400

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

CS 1400 - Computer Organization and Assembly Language Programming

4 Credit(s) Hours: *5 hrs.*

Computer structure, machine language and assembly language programming. Digital representation of data, addressing techniques, macro, and machine and assembly instruction sets. Emphasis on computing techniques for numerical applications is supplemented by several computer projects.

Prerequisite(s): CS 1200 with a grade of "C+" or higher

Department: Mathematics and Computer Science

CS 3500 - Discrete Structures

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Sets, matrices, relations and digraphs, functions, order relations and structures, trees and languages, semigroups and groups, finite-state machines and languages.

Prerequisite(s): CS 1200 with a grade of "C" or higher **and** MAT 1500 with a grade of "C+" or higher

Department: Mathematics and Computer Science

CS 3700 - Data Structures

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Introduction to data structures. Topics include: structures, arrays, stream files, stacks, recursive processes, recursive procedures and elementary simulation techniques. By the end of this course, the third in a sequence of C++ programming courses, students have learned all the topics covered by the C++ Certified Associate Programmer Certification (CPA) exam.

Prerequisite(s): CS 13A0 with a grade of "C" or higher

Department: Mathematics and Computer Science

Criminal Justice

CRJ 6300 - Introduction to Criminal Justice

3 Credit(s) Hours: *3 hrs.*

Introduction to the criminal justice system in the United States, includes study of crime and the three elements which comprise the criminal justice system: police, courts, and corrections. Attention is given to civil liberties issues which involve the procedural due process rights of persons accused of crime.

Previously listed as POL 6300.

Department: Behavioral Sciences

CRJ 6400 - Crime and Punishment

3 Credit(s) Hours: *3 hrs.*

Focus will be on "Crime" and on "Punishment," the two major aspects of the criminal justice system.

Course will consider the three sections: The Institution of Punishment, Crime and Criminals, and

Controlling Crime through Punishment.

Previously listed as POL 6400.

Prerequisite(s): CRJ 6300

Department: Behavioral Sciences

CRJ 6600 - Constitutional Law

3 Credit(s) Hours: *3 hrs.*

Designed for, but not limited to, students interested in a pre-law curriculum. United States Supreme Court decisions and opinions in several major areas of constitutional law will be studied.

Previously listed as POL 6600.

Prerequisite(s): CRJ 6300 and POL 5100

Department: Behavioral Sciences

CRJ 6700 - The United States Judiciary

3 Credit(s) Hours: *3 hrs.*

A study of the nature of the judicial process: precedent and legal reasoning; decision making; the basis of criminal and civil lawsuits; the role of the lawyer, the judge and the public; the organization of state and federal courts; the Supreme Court; democracy and judicial review.

Previously listed as POL 6700.

Prerequisite(s): CRJ 6300 and POL 5100

Department: Behavioral Sciences

CRJ 6800 - Women and the Criminal Justice System

3 Credit(s) Hours: *3 hrs.*

Women and their involvement in the various aspects of crime. The motivations, roles, and concerns of women who are living in institutions and correctional facilities, and women who have become criminal justice professionals.

Previously listed as POL 6800.

Department: Behavioral Sciences

CRJ 6900 - Policing

3 Credit(s) Hours: *3 hrs.*

A study of policing in America. Historical development, selection and training, police culture, organization and administration, patrol, criminal investigation, ethics and corruption, civilian review board, women and minorities in policing, and challenges for the future are covered.

Prerequisite(s): CRJ 6300

Department: Behavioral Sciences

CRJ 7000 - Corrections and Sentencing

3 Credit(s) Hours: *3 hrs.*

The policies and practices of the criminal justice system following the offender's arrest and conviction for a crime. The history of corrections is reviewed, and the functions of agencies that provide correctional services are covered-- jails, probation, prisons, parole and intermediate sanctions. The course also considers important controversies and major trends in contemporary correctional practice.

Prerequisite(s): CRJ 6300

Department: Behavioral Sciences

CRJ 7200 - Minorities and the Criminal Justice System

3 Credit(s) Hours: *3 hrs.*

The influence of culture, race and ethnicity on minorities as victims, suspects, criminals and practitioners. The major focus will be cross-cultural contact and the need for an understanding of cultural differences and respect for those of different backgrounds. The interaction between minorities, the courts, corrections, and police will be evaluated in the context of multicultural criminal justice. Additional time devoted to a Civic Engagement experience is required.

Previously listed as POL 7200.

Prerequisite(s): CRJ 6300 and SOC 3100

Department: Behavioral Sciences

CRJ 7500 - Fieldwork in Public Service

3 Credit(s) Hours: *6 hrs. lab/field*

Fieldwork provides students with an excellent opportunity to gain academic credit and hands-on work experience. Drawing from concepts, theories, and methods of Criminal Justice, Law and Police Studies students have learned in the classroom, internships give students a chance to participate and observe a workplace setting where they can gain invaluable knowledge, skills and experiences while exploring future career options, building one's resume, developing networks, and meeting prospective employers. This course has two components that must be fulfilled – successful completion of 72 hours (6 hours a week for 12 weeks) at a placement site and completion of the academic portion of the course which includes 15 hours of class time. Students will have a variety reading and writing assignments for the academic portion of the course. Students wishing to obtain an internship must contact their advisor.

Prerequisite(s): ENG 2400, CRJ 6300, **and** SOC 3100

Department: Behavioral Sciences

Culinary Arts

CA 100 - Culinary Arts I: Skills

3 Credit(s) Hours: *5 hrs.*

Introduction to cooking terminology, techniques, and theories. Proper knife handling, vegetable cuts and stock, soup, and sauce production. Equipment use and product identification including herbs, produce, dairy, fish, poultry, meat, cold and dry pantries. Egg cookery introduced as a prelude to cooking techniques covered in Culinary Arts II. The proper use of seasoning and frequent tasting, the development of timing, and organization.

Prerequisite(s): Passing score on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math **or** MAT M100

Prerequisite(s)/Corequisite(s): TAH 7100 and CA 990

Department: Tourism and Hospitality

CA 200 - Culinary Arts II: Major Techniques

3 Credit(s) Hours: *5 hrs.*

Continuation of cooking terminology and theories, and major cooking techniques. Food groups including fresh and dry pasta, beans and legumes, rice and grains, vegetable and potato, and advanced small sauce and soup production, breakfast and brunch cookery are explored. Introduction to plate presentation, banquet-style lunch service, cost control theories and an operating revenue-generating food production facility.

Prerequisite(s): CA 100

Department: Tourism and Hospitality

CA 300 - Garde Manger and Charcuterie

3 Credit(s) Hours: *5 hrs.*

Introduction to cooking terminology, techniques, and theories in the cold kitchen. Areas of study include salads, sandwiches, appetizers, canapés, and hors d'oeuvres with emphasis on flavor profiles, visual composition, and buffet presentation. Charcuterie explored through sausage making, cured and smoked foods, and the use of forcemeats in terrines, pâtés, galantines, and roulades. Traditional and practical use of repurposing meat, garniture and accoutrements, and classic and modern culinary trends are covered.

Prerequisite(s): CA 100 and CA 200

Department: Tourism and Hospitality

CA 990 - Culinary Concepts

3 Credit(s) Hours: *3 hrs.*

Introduces core culinary procedures including reading and converting recipes, measuring and substitution ingredients, and shifting from small-scale to large-scale recipe production. Through applied recipe testing, the course will review how these foundational skills influence both the finished product and more complex restaurant operations, including menu development, purchasing, and cost control.

Prerequisite(s): passing score on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math or MAT M100

Department: Tourism and Hospitality

CA 1100 - Baking and Pastry

3 Credit(s) Hours: *5 hrs.*

An introduction to baking and pastry making. Techniques for the quality production of yeasted and quick breads, pies and tarts, choux pastry, phyllo and puff pastry applications, basic cakes, cookies, ice cream and sorbets, Bavarians and mousses, and fruit cookery.

Prerequisite(s): passing score on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math **or** MAT M100 **and** CA 990

Department: Tourism and Hospitality

CA 1200 - Patisserie

3 Credit(s) Hours: *5 hrs.*

Continuation of baking and pastry making and the introduction of more advanced techniques. Includes artisan-style yeast breads, laminated dough fabrication including puff pastry, Danish dough, and croissant dough, classic and contemporary layered cakes, classic specialty pastries, advanced cookies, introduction to petit fours, and meringues. Correct technique, product quality, and skills in critiquing taste, texture, and appearance, finished products suited for buffet or ala carte service with appropriate garniture, sauces, and presentation, the professional pastry kitchen and volume production are covered.

Prerequisite(s): CA 1100

Department: Tourism and Hospitality

CA 1300 - Contemporary Dessert Plating

3 Credit(s) Hours: *5 hrs./1 lecture and 4 hrs. laboratory*

The course continues the study of baking and pastry arts, launching students into advanced techniques necessary to gain entry-level employment in a pastry kitchen. Through the preparation of classic and contemporary products, students will gain advanced skill in station set-up, production techniques, sauces, plating techniques, garniture, and centerpiece design and execution necessary for buffet, banquet, and a la carte service.

Prerequisite(s): CA 1100 and CA 1200

Department: Tourism and Hospitality

CA 1400 - Artisan Bread Baking

3 Credit(s) Hours: *5 hrs. (1 hr. lecture, 4 hours lab/field)*

This course offers an introduction to basic and advanced bakeshop techniques that include: pre-ferments and liquid starter preparation and maintenance, steps of dough-making and shaping, and the baking of breads from a variety of flours and grains.

Prerequisite(s): Open only to Culinary Arts Majors. CA 1100

Department: Tourism and Hospitality

CA 1500 - Professional Cake Decorating

3 Credit(s) Hours: *5 hrs. (1 hr. lecture, 4 hrs. lab/field)*

This course offers an introduction to different techniques of cake decorating. They will learn how to bake, fill and ice a cake using a variety of specialty frostings. Basic and advanced piping techniques, royal icing flowers, brush embroidery, color flow, extension work, lace, marzipan and chocolate modeling skills, classical drapery, gumpaste flowers and more. A wedding cake workshop will provide students with the basic concepts for operating a cake business such as pricing, customer consultation, cake portions and design.

Prerequisite(s): Open only to Culinary Arts Majors. CA 1100

Department: Tourism and Hospitality

CA 1600 - Chocolate and Sugar Confections

3 Credit(s) Hours: *5 hrs. (1 hr. lecture, 4 hrs. lab/field)*

This course is designed to introduce students to sugar and chocolate techniques. Students will be exposed to pastillage, poured sugar, casting sugar, pulled sugar and blow sugar to create showpieces emphasizing creative thinking, design, construction and planning. Students will learn basic principles involved in tempering chocolate, chocolate sculptures and other confections. Students will use both traditional and contemporary production methods in creating confections by hand with special equipment.

Prerequisite(s): Open only to Culinary Arts Majors. CA 1100

Department: Tourism and Hospitality

CA 2100 - Food Safety and Sanitation Certification

1 Credit(s) Hours: 2 hrs.

Practices for serving safe food and maintaining a sanitary kitchen environment. Topics include preventing food-borne illnesses, food microbes, food allergens, contamination, worker hygiene, the flow of food from purchasing and receiving through production and service, food safety management systems, maintaining sanitary facilities and integrated pest management. Preparation for industry certification from the National Restaurant Association and the New York City Foodhandler examination from the NYC Department of Health and Mental Hygiene.

Department: Tourism and Hospitality

CA 5000 - Food and Beverage Cost Control

3 Credit(s) Hours: 3 hrs.

The application of tools to manage and control food and labor costs in the food service industry. Students learn the fundamental flow of the purchasing cycle including procuring vendors, selecting products, placing orders, and proper receiving procedures. Emphasis placed on understanding and controlling food and labor costs through forecasting, inventory evaluation, and income statements. Preparation for industry certification of the National Restaurant Association Educational Foundation Manage First Program certification exam.

Prerequisite(s): passing score on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math **or** MAT M100, **and** CA 990

Department: Tourism and Hospitality

CA 5050 - Integrative Studies Seminar

1 Credit(s) Hours: 2 hrs.

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in other courses in the Integrative Studies link.

Department: Tourism and Hospitality

CA 6000 - Beverage Management

3 Credit(s) Hours: 3 hrs.

Introduction to managing and serving wine, beer, spirits, and non-alcoholic libations and their role in the restaurant industry from a culinary and marketing perspective. Examination of historical, geographical, cultural, and profitable roles beverages play. Terminology and theories of pairing beverages with food, production, sanitation, employee management, purchasing, receiving, storing, and regulation is explored. Development of new beverage concepts. Preparation for industry certification of the National Restaurant Association Educational Foundation ServSafe Alcohol certification exam

Prerequisite(s): TAH 7100

Department: Tourism and Hospitality

CA 7000 - Industry Exploration and Entrepreneurship

2 Credit(s) Hours: *3 hrs. (1 hr. lecture, 2 hrs. lab/field)*

This course allows students with advanced culinary skills the opportunity to learn the art and science of managing culinary innovation and entrepreneurship. The learner is directly involved in planning, organizing and the implementation of culinary presentation skills, which highlight innovation and global influences

Prerequisite(s): Open only to Culinary Arts Majors. CA 100

Department: Tourism and Hospitality

CA 7200 - Restaurant and Food Service Operations

3 Credit(s) Hours: *5 hrs.*

An introduction to restaurant concepts and operations for students who want to open their own restaurant, or manage a restaurant or catering establishment. The course is a blueprint for how to proceed from the conceptual development stage through the marketing, operations and management of a restaurant or catering facility.

NOTE: Not open to students who have completed TAH 7200.

Prerequisite(s): CA 100 and CA 200

Corequisite(s): CA 2100

Department: Tourism and Hospitality

CA 7400 - Menu and Dining Room Management

3 Credit(s) Hours: *5 hrs.*

The role and importance of proper wait service to the tourism and hospitality industry. Case studies, cost, and control factors in the construction and management of a function menu will be covered. New trends and developments will be explored as they relate to catering, trade shows and professional meetings.

NOTE: Not open to students who have completed TAH 7400.

Prerequisite(s)/Corequisite(s): TAH 7100 and CA 990

Department: Tourism and Hospitality

CA 9000 - Global Culinary Improvisation

3 Credit(s) Hours: *5 hrs.*

Principles and practice of identification, comparison, and evaluation of selected foods, ingredients, techniques, and equipment for recipe formulation, menu planning and preparation, application of global flavor principles and ingredients, and modifications to meet specific requirements. This is a capstone course focused on improvisational, interactive activities structured around five competencies: problem-solving, culinary improvisation, flavor and palate development, leadership and teamwork, and communication.

Prerequisite(s): CA 100 and CA 200

Department: Tourism and Hospitality

CA 9200 - Internship in Culinary Arts

3 Credit(s) Hours: *9 hrs.*

Integration of theory and practice in an actual work environment, eight hours per-week of supervised field experience in culinary arts plus one hour a week on campus for a seminar discussion of relevant topics. Classroom sessions focus on industry-specific career development and planning skills, and preparation of a professional portfolio.

Prerequisite(s): CA 100 and CA 200 or CA 1200

Department: Tourism and Hospitality

English Composition - Corequisite Course

ENG 12A0 - Composition I ALP

3 Credit(s) + 1 Equated Credit(s) Hours: *6 hrs. (2 hrs. lecture, 4 hrs. lab)*

An introductory course in critical reading and writing emphasizing the development and communication of ideas in written form and a basic rhetorical understanding of how language communicates facts, ideas, and attitudes. Students apply basic rhetorical concepts in reading and composing texts in several genres; compose texts that integrate the writer's ideas with those from other texts, including research materials; and develop writing projects through drafting, reviewing, collaborating, revising, rewriting, rereading, and editing.

This course includes an Accelerated Learning Program (ALP) component, which provides the academic supports that were typically found in the standalone developmental course. For students who are eligible for a corequisite course per the CUNY English Proficiency Index guidelines.

Equivalent to ENG 1200 Composition I

Prerequisite(s): This course is open to the ALP Student Group. Eligibility is determined as follows: (1) Score of 50-55 on the CATW AND a Passing score on the CUNY Assessment Test in Reading, **or** (2) Passing grade in ENG 93A9, **or** (3) Instructor approval AND Passing grade in ESL 102 or ESL 91A7, **or** (4) Grade of "S" or "R" in UIP ENGRW, **or** (5) CUNY Proficiency Index score of 64 or below.

Required Core: Required Core: English Composition

Department: English

English Composition

ENG 1200 - Composition I

3 Credit(s) Hours: *4 hrs.*

An introductory course in critical reading and writing emphasizing the development and communication of ideas in written form and a basic rhetorical understanding of how language communicates facts, ideas, and attitudes. Students apply basic rhetorical concepts in reading and composing texts in several genres; compose texts that integrate the writer's ideas with those from other texts, including research materials; and develop writing projects through drafting, reviewing, collaborating, revising, rewriting, rereading, and editing.

Prerequisite(s): Eligibility is determined as follows: (1) CUNY Proficiency Index score of 65 or higher; **or** (2) instructor placement from ESL coursework or placement via the ELSDA, **or** (3) Q exemption for English, **or** (4) passing grade in ENG 93A9, **or** (5) grade of P in UIP ENGRW, **or** (6) passing grade in CUNY Start, **or** (7) score of 55 or higher on the CATW and passing score on the CUNY assessment test in reading.

Required Core: English Composition

Department: English

ENG 2400 - Composition II

3 Credit(s) Hours: *4 hrs.*

The course extends the work of Composition I, requiring students to apply rhetorical concepts as they read and compose texts in both academic and public genres. Students engage in primary and secondary research in order to develop writing projects that integrate their own ideas, observations, and material from relevant textual sources. Through these projects, students continue to develop their understanding of effective written communication and the various processes involved in research-based writing.

Prerequisite(s): ENG 1200

Required Core: English Composition

Department: English

English - Literature and Writing

ENG 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of English is developed individually between student and faculty member and must be approved by the Department.

Department: English

ENG 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: English

ENG 3000 - Introduction to Literature

3 Credit(s) Hours: *3 hrs.*

Close reading of texts in a range of forms, including poetry, fiction, and drama, providing an introduction to the methods and tools of literary studies.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 3100 - Classical and Biblical Literature

3 Credit(s) Hours: *3 hrs.*

Introduction to ancient works that have inspired and influenced world literature, including works of Greek and Roman authors, and selections from the Hebrew Bible and the New Testament. Texts are read in English translation.

Prerequisite(s): ENG 1200

Department: English

ENG 3200 - World Literature

3 Credit(s) Hours: *3 hrs.*

The diverse body of literature written by authors around the globe, including works written in the twentieth and twenty-first centuries from the Far East and Africa as well as from Europe and the Americas.

Prerequisite(s): ENG 1200

Flexible Core: World Cultures and Global Issues (Group A)

Department: English

ENG 3300 - Introduction to Literary Studies

3 Credit(s) Hours: *3 hrs.*

Teaches students methods for analyzing, interpreting and writing about literature, including schools of thought such as psychoanalytic, new historic, and race, class, and gender perspectives. Students demonstrate proficiency in interpretation and critique, employing terms, tools and concepts of literary critic, and identifying assumptions informing analysis of poetry, drama, fiction, film, etc. The course looks at critical history reviews, foundations from the 19th and 20th centuries, and surveys the critical approaches important today. Students enrich their skills as scholastic writers by applying learned methodologies to close reading of literary texts.

Prerequisite(s): ENG 1200

Department: English

ENG 3500 - Modern European Literature

3 Credit(s) Hours: *3 hrs.*

An introduction to and survey of the great works of European literature in English translation, including poems, plays, and fiction.

Prerequisite(s): ENG 1200

Department: English

ENG 4000 - Short Fiction

3 Credit(s) Hours: *3 hrs.*

Great short works of fiction, by authors representing different cultures and eras, with an emphasis on what makes the short story a distinctive literary form.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 4200 - Poetry

3 Credit(s) Hours: *3 hrs.*

An introduction to the study of poetry, in a range of styles and from various historical periods and cultures, including the spoken word performances and electronic poetry of the present day.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 4300 - Drama

3 Credit(s) Hours: *3 hrs.*

Plays by a range of contemporary and classic dramatists, with attention to such literary elements as dramatic form, character, and action.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 4800 - American Environmental Literature

3 Credit(s) Hours: *3 hrs.*

A survey of American nature writing and environmental literature from its roots in the colonial era through its flowering in the twentieth century. Examples of reading include Thoreau's *Walden*, Aldo Leopold's *Sand County Almanac*, and Rachel Carson's *Silent Spring* and a representative range of shorter works from four centuries to explore the evolution of ideas about nature. Selections include natural histories, travelogues, journals and diaries, essays, poetry, and short stories.

Prerequisite(s): ENG 1200

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: English

ENG 5050 - Integrative Studies Seminar

1 Credit(s) Hours: *2 hrs.*

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in the Integrative Studies Link.

Department: English

ENG 5200 - Writing for Public Advocacy

3 Credit(s) Hours: *3 hrs.*

This course offers students study in examining and crafting writing for public advocacy. Students identify the rhetorical situations of community-based writing and learn how to produce texts and documents in the interest of effecting local social change. Equal attention is paid to the craft of analyzing and developing organizational and advocacy documents used by nonprofits and community groups such as: mission statements, grant proposals, and social media organizing and outreach materials.

Prerequisite(s): ENG 12A0 or ENG 1200

Department: English

ENG 5500 - Cultural/Linguistic Aspects of Teaching Language

3 Credit(s) Hours: *3 hrs.*

Prepares students for work as tutors in the Writing Center, emphasizing various aspects of the English language and the cultural awareness needed for effective tutoring.

Prerequisite(s): ENG 1200

Department: English

ENG 5600 - Creative Writing: Fiction

3 Credit(s) Hours: *3 hrs.*

Instruction and practice in the forms and types of fiction. Analysis of peer writing on a workshop basis, assists students develop mastery of the form of fiction best suited for them.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 5700 - Creative Writing: Poetry

3 Credit(s) Hours: *3 hrs.*

Practice in the art and craft of writing poetry. Includes extensive reading in poetry, from traditional to experimental. Classes will be both workshop and discussion-based.

Prerequisite(s): ENG 1200

Flexible Core: Flexible Core: Creative Expression (Group C)

Department: English

ENG 5800 - Creative Writing: Non-Fiction

3 Credit(s) Hours: *3 hrs.*

Instruction and practice in the art of writing non-fiction, including autobiography and memoir, cultural memoir and critique, nature, travel, community writing, and literary journalism.

Prerequisite(s): ENG 1200

Department: English

ENG 5900 - Introduction to Creative Writing

3 Credit(s) Hours: *3*

Introduction to the writing of fiction, nonfiction, and poetry, in which students explore literary form and the writing process. Students will write, revise, and share their work with other members of the class, and read and analyze selected works by contemporary authors.

Prerequisite(s): ENG 1200

Flexible Core: Flexible Core: Creative Expression (Group C)

Department: English

ENG 6000 - Creative Writing: Screenwriting

3 Credit(s) Hours: *3 hrs.*

Instruction and practice in the art of writing screenplays and scripts, along with study of works of screenplays as examples and models. Analysis of peer writing in a workshop format.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 6200 - Writing for Digital Spaces

3 Credit(s) Hours: *3 hrs.*

Writing for Digital Spaces offers students intensive study of and practice in composing beyond print. The course focuses on widely applicable considerations in written communication while centering those specific to composition and publication in digital environments. Students will learn principles of public-facing online communication by studying and producing several forms of digital writing across a variety of genres and spaces. This course includes the opportunity for students to develop a professional website portfolio showcasing their digital writing artifacts and learning.

Prerequisite(s): ENG 12A0 or ENG 1200

Department: English

ENG 6300 - Shakespeare

3 Credit(s) Hours: *3 hrs.*

This course provides students with an introduction to Shakespeare, including plays and sonnets. Students pay close attention to language and meaning in Shakespeare's texts, analyze the readings in historical context, and consider what makes these works extraordinary.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 6500 - Literature and Film

3 Credit(s) Hours: *3 hrs.*

How literature is interrelated with film, explored through analysis of fictional works and their film treatments.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: English

ENG 6600 - Literature and Psychology

3 Credit(s) Hours: *3 hrs.*

Imaginative literature as a source of insight into human psychology. Works include classics of world literature in a range of genres.

Prerequisite(s): ENG 1200

Department: English

ENG 6700 - Women Writers

3 Credit(s) Hours: *3 hrs.*

This course explores selected themes by women authors drawn from worldwide literature in a range of genres, such as fiction, drama, poetry, and memoir, and includes consideration of how gender intersects with race, ethnicity, sexuality, and/or class to shape women's writing.

Prerequisite(s): ENG 1200

Department: English

ENG 6800 - Gothic and Horror Fiction

3 Credit(s) Hours: *3 hrs.*

Survey of British and American Gothic and horror literature, including short stories, novels, and narrative poetry. Analysis of Gothic trappings and creatures such as vampires and werewolves as they appear in literature.

Prerequisite(s): ENG 1200

Department: English

ENG 6900 - Caribbean Literature

3 Credit(s) Hours: *3 hrs.*

This course examines the experience of Caribbean peoples in literary works from colonialism to the present day. By reading a range of Caribbean writers, including Aimé Césaire, Derek Walcott, Edwidge Danticat, Frantz Fanon, George Lamming, Jamaica Kincaid, Jean Rhys, Junot Diaz, Mahadai Das, and Merle Hodge, students will consider how Caribbean people have negotiated issues of identity and self, racial dynamics, what it means to be "Afro-Caribbean," nationalism, gender, politics, creolization, carnival culture, class conflict, and globalization.

Prerequisite(s): ENG 12A0 or ENG 1200

Department: English

ENG 7000 - Queer Literature

3 Credit(s) Hours: *3 hrs.*

An introduction to the study of literature with a focus on sexuality and gender. Students will explore the relationships between these works and the larger historical, philosophical, political, and cultural contexts. The analysis of Queer literature will include discussion of local and global intersections among identity categories like race, class, ethnicity, nationality, and ability

Prerequisite(s): ENG 1200

Department: English

ENG 7100 - Exploring Food Studies: Literature & Rhetoric

3 Credit(s) Hours: *3 hrs.*

This course explores food as a broad historical category through literary and rhetorical/journalistic texts, applying methodologies of Food Studies, the academic discipline analyzing systems through which food is produced, distributed, purchased, and consumed, the history of food, food as a critical aspect of cultural and individual identities, and food systems and structures. Literary and rhetorical texts will focus on themes of Health, Ethics, and Politics. Students will learn to recognize significant aspects of literary and rhetorical forms including the novel, short stories, poetry, creative nonfiction, journalism, essays, and visual media.

Prerequisite(s): ENG 1200

Department: English

ENG 7300 - Themes in American Literature I: Beginnings to 1865

3 Credit(s) Hours: *3 hrs.*

A survey of American literature and literary history from early America through the Civil War, focusing on the historical, philosophical, religious and literary forces that shaped American life.

Prerequisite(s): ENG 1200

Department: English

ENG 7400 - Themes in American Literature II: 1865 to Present

3 Credit(s) Hours: *3 hrs.*

A survey of American literature and literary history from the late 19th century to the present, examining works that depict urbanization, immigration, class conflict, and social change.

Prerequisite(s): ENG 1200

Department: English

ENG 7600 - Violence in American Literature and Visual Culture

3 Credit(s) Hours: 3 hrs.

The course explores the ways in which violence permeates and shapes people's different experiences in the United States. Students will examine different forms of violence, from war and terrorism, to crime and domestic violence, as they appear in post-1945 American literature, film, and photography. Students will also explore related issues such as punishment and justice. Students will discuss, analyze, and compare the different texts and their relevance to one's daily life.

Prerequisite(s): ENG 1200

Department: English

ENG 7700 - African-American Literature: Beginnings to the Harlem Renaissance

3 Credit(s) Hours: 3 hrs.

An overview of early African-American literature from the slavery era to the Harlem Renaissance. Genres such as oral and slave narratives, poetry, fiction and nonfiction will be covered.

Prerequisite(s): ENG 1200

Flexible Core: U.S. Experience in its Diversity (Group B)

Department: English

ENG 7800 - Contemporary African-American Literature

3 Credit(s) Hours: 3 hrs.

An introduction to African-American literature in the United States from 1940 to the present. Works studied span a variety of genres, from poetry and rap lyrics to realist fiction; themes may include identity, freedom and responsibility, individualism and community.

Prerequisite(s): ENG 1200

Department: English

Developmental English

ENG R00 - Preparation for CUNY Reading Test

0 Credit(s) 2 Equated Credit(s) Hours: 2

A pre-freshman intervention focused on helping students sustain close attention to brief texts, draw distinctions among different question types, and become familiar with the computer-adaptive testing modality to meet these stated learning goals and pass the CUNY Reading exam.

Prerequisite(s): ENG 92A6 or ENG 88A6 or ENG 400.

Department: English

ENG W00 - Preparation for CUNY Writing Test

0 Credit(s) 2 Equated Credit(s) Hours: 2

A pre-freshman intervention focused on helping students improve their writing and thinking proficiencies to meet these goals and pass the CUNY Writing exam. Activities and assignments include writing summaries, identifying and responding to key ideas in a clear and organized manner, demonstrating competence in sentence construction, variety, and word choice.

Prerequisite(s): ENG 93A9

Department: English

ENG 88A6 - Intensive Reading

0 Credit(s) 4 Equated Credit(s) Hours: 4 hrs.

A pre-freshman course offered in the summer and winter modules for students who have not succeeded in any English Department and CUNY measure at the conclusion of the fall and/or spring ENG 92A6 course. Offered during summer and winter, this six-week course focuses on the development of critical reading and thinking abilities through instruction and intensive practice in vocabulary and comprehension. Students read and analyze interdisciplinary materials in preparation for required readings in typical college courses. At the end of this course, students will retake the English Department and CUNY reading measures.

Prerequisite(s): Open to students who complete ENG 92A6 in the fall or spring and do not pass

Department: English

ENG 91A5 - Developing Fluency in Reading and Writing

0 Credit(s) 6 Equated Credit(s) Hours: 6 hrs.

A pre-freshman integrated reading and writing course for students who score a 47 and below on the CATW and receive any reading score on the CUNY ACT Reading. Students in ENG 91A5 will build fluency in both reading and writing and critical thinking. Fluency refers to the ability to understand reading assignments and to write comprehensible essays. The primary focus of ENG 91A5 is the development of fluent expression and comprehension. To that end, students will do a significant quantity of reading and writing. These reading and writing activities ask students to focus on the construction of meaning as they build fluency.

Department: English

ENG 92A6 - Developing Competence in Reading and Writing

0 Credit(s) 6 Equated Credit(s) Hours: 6 hrs.

A pre-freshman course focused on the development of critical reading, writing, and thinking abilities necessary for success in college-level courses. Also emphasized is the use of writing to develop ideas in relation to rich and complex texts.

Prerequisite(s): Failed the CUNY Skills Assessment test in Reading with a 54 or below **or** Failed the CUNY Assessment Test in Writing with a 47 or below.

Department: English

ENG 93A9 - Developing Competence in Writing

0 Credit(s) 4 Equated Credit(s) Hours: *4 hrs.*

A pre-freshman writing course focused on the development of critical reading, writing, and thinking abilities necessary for success in college-level courses and the professions. College-level reading selections in a number of academic areas provide rigorous practice with the drafting process. Writing is used in order to develop ideas in relation to readings.

Prerequisite(s): Failed the CUNY Skills Assessment test in Writing with a score of 48-50 **and** passed the CUNY Skills Assessment test in Reading

Department: English

ENG 400 - Analytical Reading

0 Credit(s) 3 Equated Credit(s) Hours: *3 hrs.*

A pre-freshman course focused on the development of critical reading, writing, and thinking abilities through instruction and intensive practice in vocabulary and comprehension. Students will read and analyze interdisciplinary materials in preparation for required readings in typical college courses.

Prerequisite(s): A passing score of 56 or above on the CUNY Writing exam **and** a CUNY Reading exam score below 70. Incoming Students Only

Department: English

ENG 1050 - Integrative Language Seminar

1 Credit(s) 2 Equated Credit(s) Hours: *2 hrs.*

This one-semester ESL Learning Community course offered in the fall semester, open to all incoming student's whose first language is not English and whose results on the CUNY Reading and Writing exams indicate that they need to work on developing these areas. Students in ENG 1050 will build language awareness through an integrative, content-based, and contextualized approach. Students act as "language researchers," attending to language form as they build fluency, and drawing meaningful links between work in all Learning Community courses from a linguistic perspective.

Prerequisite(s): ESL Student Group and CUNY Assessment Scores on the CATW of 22 to 47 and any ACT Reading score

Corequisite(s): ESL 101

Department: English

ENG 1220 - Accelerated Learning Program

0 Credit(s) 1 Equated Credit(s) Hours: *2 hrs.*

The Accelerated Learning Program (ALP) is a two-hour companion course to ENG 1200 for students who pass the CUNY administered Reading exam, but score 51 to 55 on the CATW. ALP provides small-group instruction that will reinforce the reading and writing activities of ENG 1200.

Corequisite(s): ENG 1200

Department: English

English: College Now

ENG BW00 - Foundations for College-Level Writing

0 Credit(s) Hours: *4 hrs.*

A portfolio-based course that develops thinking skills and competency in reading and writing needed for both high school exit and college entrance English classrooms.

Department: English

ENG W100 - Intensive Writing 1

0 Credit(s) Hours: *2 hrs.*

Development of critical thinking and writing skills needed for freshman-level college coursework.

Students create portfolios based on freshman-level reading assignments in the sciences.

Students are urged to participate in a 3-credit "College Now" course

Department: English

ENG W200 - Intensive Writing 2

0 Credit(s) Hours: *2 hrs.*

Course builds on the work of ENG W100. Based on readings in psychology, students develop advanced critical thinking and writing skills required for success in English classes during and beyond the freshman year.

Students are urged to participate in a 3-credit "College Now" course

Department: English

Education Program

EDC 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of early childhood education is developed individually between student and faculty member and must be approved by the Department.

Department: Behavioral Sciences

EDC 90A4 - Seminar and Practicum in Teacher Development

3 Credit(s) Hours: *10 hrs.*

Seminar and supervised field work stressing multicultural factors. Students apply knowledge of child development in agency settings working with young children, in seminars with peers and in individual conferences with supervisors.

Not open to students who have completed ECE or EDC 9105.

Prerequisite(s): ENG 1200 and Math Proficient **AND**

For A.S. Education Studies: 1st - 6th Grade Concentration: EDC 2900, EDC 3100, **and** EDC 4200 with a minimum grade of "C" **AND** Department permission required.

For A.S. Education Studies: PreK - 12th Grade Special Education Concentration: EDC 3100, EDC 4200, **and** EDC 5100 with a minimum grade of "C" **AND** Department permission required.

Department: Behavioral Sciences

EDC 200 - Social Foundations of Education

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. field)*

The social underpinnings of education are traced through a study of the history of education, including the development of its practices and philosophies. The social forces that currently influence education and gaps between ideals and the realities of education are analyzed. Reports requiring school visits will be assigned.

This course is designated as a CUNY Pathways Major Gateway course and thus, guarantees automatic transfer into any the Education major across colleges and programs. This course requires a minimum of 15 hours of fieldwork that support the learning outcomes of a Social Foundations in Education course. Must obtain a minimum grade of "C" in order to progress to the next Education course in the sequence.

Department: Behavioral Sciences

EDC 2000 - Foundations of Education

3 Credit(s) Hours: *3 hrs.*

The effects of society, culture and institutions on the developmental needs of children with emphasis on the impact of urban life and the role of the educational system.

Department: Behavioral Sciences

EDC 2100 - Social Science in Education

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. field)*

Survey of the objectives of the Social Sciences as reflected in the selection, guidance and evaluation of curricula in Education.

Prerequisite(s): EDC 2500 **and** EDC 2800 with a minimum grade of "C" or better. Department permission is required.

Corequisite(s): EDC 4000

Department: Behavioral Sciences

EDC 2200 - Art Workshop in Education

3 Credit(s) Hours: *3 hrs.*

Various art media are explored to understand principles, methods, planning and classroom organization necessary to achieve curricular and behavioral objectives of programs in education. Theory and history of art education as it relates to curriculum and diverse cultures. *Ten hours per semester working with children in art activities.*

Prerequisite(s): For A.S. Education Studies Majors: Birth - 2nd Grade Concentration: EDC 2100, EDC 3200, **and** EDC 4000 with a minimum grade of "C "or better.

For A.S. Education Studies Majors: 1st - 6th Grade Concentration: EDC 2900, EDC 3100, **and** EDC 4200 with a minimum grade of "C "or better.

For A.S. Education Studies Majors: PreK - 12th Grade Special Education Concentration: EDC 3100, EDC 4200, **and** EDC 5100 with a minimum grade of "C "or better.

Department: Behavioral Sciences

EDC 2300 - Music and Movement Workshop in Education

2 Credit(s) Hours: *2 hrs.*

Musical literature, methods and techniques for utilizing music and dance to achieve the curricular and behavioral objectives of programs in education. *Ten hours per semester working with children in music activities.*

Prerequisite(s): EDC 200 with a minimum grade of "C" or better.

Department: Behavioral Sciences

EDC 2400 - Teaching Emergent Bilinguals

3 Credit(s) Hours: *3 hrs.*

This course explores language acquisition theories, the historical, philosophical, and pedagogical evolution of how educational institutions have approached their work with emergent bilinguals, and pedagogical strategies for teaching emergent bilinguals. It focuses on the role of educators in supporting emergent bilinguals' learning language and literacy across content.

Prerequisite(s): For A.S. Education Studies: Birth - 2nd Grade Concentration: EDC 2100, EDC 3200, and EDC 4000 with a minimum grade of "C" or better.

For A.S. Education Studies: 1st - 6th Grade Concentration: EDC 2900, EDC 3100, EDC 4200 with a minimum grade of "C" or better.

For A.S. Education Studies: PreK - 12th Grade Special Education Concentration: EDC 3100, EDC 4200, and EDC 5100 with a minimum grade of "C" or better.

Department: Behavioral Sciences

EDC 2500 - Psychological Foundations of Education

3 Credit(s) Hours: *3 hrs.*

This course provides an overview of human development from conception to adolescence and its application to teaching and learning. It focuses on historical and contemporary theories of childhood development. Learning is considered in relation to biological factors, child and family factors, program factors and sociocultural factors, particularly in diverse urban settings. Children's physical, cognitive, communicative, social and emotional development is explored as contributors to and as consequences of learning experiences. **New York State mandated two-hour session on recognizing and reporting child abuse is included.**

This course is designated as a CUNY Pathways Major Gateway course for Early Childhood/Childhood Education and thus, guarantees automatic transfer into an Early Childhood/Childhood Education major across CUNY colleges and programs. This course requires a minimum of 15 hours of fieldwork that support the learning outcomes of a Psychological Foundations in Education course.

Prerequisite(s): EDC 200 with a minimum grade of "C"

Department: Behavioral Sciences

EDC 2800 - Techniques in Math, Science and Technology Teaching for Early Childhood Education

2 Credit(s) Hours: *2 hrs.*

Knowledge and understanding of the methods of teaching pre-mathematics, science, and technology in early childhood classrooms. Hands-on methods that permit young children to learn through discovery, plus theoretical underpinnings of these methods are emphasized.

Open to all students.

Prerequisite(s): EDC 2500 with a minimum grade of "C" or better.

Department: Behavioral Sciences

EDC 2900 - Elementary Science, Technology and Mathematics Education

3 Credit(s) Hours: 3 hrs.

This course integrates the study of sciences, mathematics, technology, and education in the current and historical social context. Students explore materials and methods to facilitate scientific investigation through progressive models of instruction, such as cooperative learning and inquiry-based learning while following national, state, and local mathematics, science, and technology teaching and curriculum standards. The course explores the influence of attitudes toward science and mathematics on learning. Weekly use of the internet and digital tools are incorporated.

Prerequisite(s): EDC 5000 and EDC 2500 with a minimum grade of "C"

Open Only to Education Studies Majors: 1st - 6th Grade Concentration

Department: Behavioral Sciences

EDC 3000 - Seminar and Practicum in Early Childhood Education Curriculum

3 Credit(s) Hours: 4 hrs. (2 hrs. lecture, 2 hrs. field)

Working directly with materials, students explore and become familiar with the methods and materials used in an Early Childhood Education setting as developmentally appropriate practice and the integrated approach to education is emphasized. *Ten hours per semester working with children in Early Childhood curriculum activities.*

Prerequisite(s): EDC 200 with a minimum grade of "C"

Department: Behavioral Sciences

EDC 3100 - Social Science in Childhood Education

3 Credit(s) Hours: 4 hrs. (2 hrs. lecture, 2 hrs. field)

Designed for employed professionals as well as undergraduates in Childhood Education. Knowledge of the social sciences, pedagogical strategies, the development of critical thinking skills concerning curriculum content, creation and implementation of activities for thematic units will be covered.

Prerequisite(s): EDC 2500 and EDC 5000 with a minimum grade of "C" or better.

Corequisite(s): EDC 4200 AND Department permission required.

Department: Behavioral Sciences

EDC 3200 - Infant/Toddler Development

3 Credit(s) Hours: 3 hrs.

Study of educational theories and approaches as well as cultural influences on the development of the young child.

Prerequisite(s): EDC 2500 and EDC 2800 with a minimum grade of "C" or better.

Department: Behavioral Sciences

EDC 4000 - Educational Practice for Early Language and Literacy Development

3 Credit(s) Hours: *4 hrs. /2 hrs. lecture, 2 hrs. field experience/laboratory*)

This course focuses on the development of language and emergent literacy from infancy to preschool years. The three themes that are addressed are: history and theories of literacy development, language and literacy acquisition, and methods of literacy instruction for all. These themes serve as the foundation for developmentally appropriate practices of early childhood educators.

Prerequisite(s): EDC 2500 and EDC 2800 with a minimum grade of "C" or better **AND** Department permission required.

Corequisite(s): EDC 2100

Department: Behavioral Sciences

EDC 4100 - Teaching the Gifted Individual

3 Credit(s) Hours: *3 hrs.*

Investigation of psychological and educational needs of gifted and talented individuals in school and society. Includes a historical perspective, past and present research studies, identification and implementation of programs.

Prerequisite(s): PSY 1100

Department: Behavioral Sciences

EDC 4200 - Children's Literature and Language Arts in Childhood Education

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab/field)*

This course is designed to provide students with the professional background knowledge and skills needed to design and implement integrated literacy instruction to learners of diverse backgrounds and needs in grades 1-6. The course focuses on curriculum development and individualized planning in language arts with an emphasis on multicultural and diverse children's literature and arts experiences. Requires 24 hours of supervised fieldwork.

Prerequisite(s): EDC 5000 and EDC 2500 with a minimum grade of "C" **AND** Department permission required. **Open Only to Education Studies Majors: 1st - 6th Grade Concentration and PreK - 12th**

Grade Special Education Concentration

Corequisite(s):

EDC 3100

Department: Behavioral Sciences

EDC 5000 - Foundations of Disability and Inclusive Education

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab/field)*

This class is an introduction to disability studies with an emphasis on the historical, cultural and social foundations of inclusive education. The historical basis for the disability rights movement and inclusive education will be addressed, including legislation and litigation that has had a significant impact on the field. Students will learn about the characteristics of individuals with diverse abilities, current trends in educational services, as well as ethical principles and professional standards. Students will observe for 24 hours in an inclusive classroom. This course includes a Child Abuse Recognition training that leads to a certificate to be applied toward NYS Teaching Certification.

Prerequisite(s): EDC 2000 with a minimum grade of "C" **Open Only to Education Studies Majors: 1st - 6th Grade Concentration and PreK - 12th Grade Special Education Concentration**

Department: Behavioral Sciences

EDC 5050 - Integrative Studies Seminar

1 Credit(s) Hours: *2 hrs.*

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in other courses in the Integrative Studies Link.

Department: Behavioral Sciences

EDC 5100 - Pedagogical Approaches for Students with Disabilities

3 Credit(s) Hours: *3 hrs.*

In this course students will apply their understanding of the principles of universal design for learning and culturally-responsive teaching to a wide range of issues related to the instruction of students with disabilities. This will include: inclusion of strategies in the classroom and in specialized placements, intervention models to address different learning needs, the importance of art and play-based pedagogical approaches, and different pedagogical approaches for working with children with different types of disabilities.

Prerequisite(s): EDC 5000 with a minimum grade of "C" **Open Only to Education Studies Majors: PreK - 12th Grade Special Education Concentration**

Department: Behavioral Sciences

EDC 5200 - Partnering with Families, Professionals, and Community

3 Credit(s) Hours: *3 hrs.*

Pre-service candidates will explore and develop the competencies needed for working collaboratively with families, professionals, and the community, including understanding the theories and elements around professional collaboration. This course will reflect a strength-based stance toward children and families and affirm the identities and cultural diversity of all learners and families. The course will focus on developing the skills needed for collaborative service delivery options for students.

Prerequisite(s): EDC 5100 with a minimum grade of "C" **Open Only to Education Studies Majors: PreK - 12th Grade Special Education Concentration**

Department: Behavioral Sciences

EDC 6001 - Social Emotional Learning Through Puppetry and Play

1 Credit(s) Hours: *1 hr.*

This course is designed to introduce students to the developmental theories behind Social Emotional Learning (SEL) while also providing an interactive and integrative approach to the exploration of puppetry as a vehicle to reinforce this learning. Through the use of multi-lingual storytelling, arts-making, dramatic play, and lively group discussions, this course will provide hands-on practice, planning, and curriculum design instruction to students of diverse backgrounds and needs. Learners will come away from the course with the necessary skills to implement puppetry play and other creative arts activities to foster deep and lasting social-emotional learning in both the early childhood and elementary classrooms.

Prerequisite(s): EDC 200 with a minimum grade of "C" **Open Only to Education Studies Majors: Birth - 2nd Grade Concentration and 1st - 6th Grade Concentration**

Department: Behavioral Sciences

EDC 6002 - Creating Classroom Culture Through Successful Management

1 Credit(s) Hours: *1 hr.*

Students will analyze and evaluate research-based models of classroom organization and management through culturally-sustaining lenses. A practical Classroom Management Plan will be designed by students as an exit project for this course.

Prerequisite(s): EDC 200 with a minimum grade of "C" **Open Only to Education Studies Majors: Birth - 2nd Grade Concentration and 1st - 6th Grade Concentration**

Department: Behavioral Sciences

EDC 9105 - Supervised Instructional Experience in Education I

3 Credit(s) Hours: *6 hrs.*

Students are assigned to work with children in a specific education center such as a Day Care Center, Nursery School, Kindergarten, or School for Exceptional Children. Students concentrate on objective observations of child behavior in order to help develop skills in understanding children and their learning needs.

For ECE Majors only.

Prerequisite(s): EDC 2100 with a grade of "C" and Passed, exempt, or completed developmental course work for the CUNY Assessment Tests in Reading and Writing

Corequisite(s): EDC 2200

Department: Behavioral Sciences

EDC 9200 - Seminar and Practicum in Early Childhood Special Education

3 Credit(s) Hours: *6 hrs. lab/field*

Students apply knowledge of typical and atypical development working with young children through seminar and supervised fieldwork in early childhood special education settings. Identification and examination of developmental disabilities in young children is introduced in conjunction with developmentally appropriate and effective remediation. Implications for adapting the learning environment, individualizing settings and instruction, co-teaching and cooperative models and methods are explored. Development of positive behavior supports for all young children, including English language learners. Role of families and educators in creating learning environments at home and in educational setting.

Prerequisite(s): ENG 1200, Math Proficient, **and** EDC 2100, EDC 4000, **and** EDC 3200, with a minimum grade of "C" **AND** Department permission required **Open Only to Education Studies**

Majors: Birth - 2nd Grade Concentration

Department: Behavioral Sciences

EDC 9307 - Supervised Instructional Experience In Education II

3 Credit(s) Hours: *6 hrs.*

Students are assigned increasing responsibility within the limits of the agency structure. Leadership of group activities is included.

For ECE Majors only.

Prerequisite(s): EDC 2200 and EDC 9105, with a minimum grade of "C" and a passing score on the ACCUPLACER CUNY Assessment Test in Math **or** completion of developmental mathematics

Prerequisite(s)/Corequisite(s): EDC 2300

Department: Behavioral Sciences

EDC 9400 - Supervised Instructional Experience in Infant/Toddler Education

3 Credit(s) Hours: *6 hours*

A practicum stressing the unique needs of infants and toddlers, in which students apply knowledge of child development. Developmentally appropriate practice in agency setting working with infants and toddlers. Students participate in seminars with their peers and meet in individual conferences with their supervisor.

Prerequisite(s): EDC 3200 and EDC 2100, both with a grade of "C" or better

Corequisite(s): EDC 2200

Department: Behavioral Sciences

Earth and Planetary Science

EPS 3100 - Meteorology

4 Credit(s) Hours: *6 hrs.*

Fundamental physical and chemical structure of the atmosphere including weather, climate, meteorological instrumentation, and air pollution.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

EPS 3200 - Oceanography

4 Credit(s) Hours: *6 hrs.*

Factors that have a major influence on the physical and chemical structure of the oceans includes tides, waves, currents, oceanographic instrumentation and coastal oceanography. Course includes a laboratory component.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

EPS 3300 - Physical Geology

4 Credit(s) Hours: *6 hrs.*

Study of the nature of the Earth and its processes includes: mineral and rock classification, analysis of the agents of weathering and erosion, dynamics of the Earth's crust as manifest in mountain building, volcanoes and earthquakes, recent data concerning the geology of other planets, field and laboratory techniques of the geologist.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

EPS 3500 - Introduction to Astronomy

4 Credit(s) Hours: *6 hrs.*

Concepts and methods of astronomical science, the early theories of the universe, astronomical instruments, the solar systems and its members, stars, galaxies, recently discovered objects, and study of modern cosmological ideas. Course includes a laboratory component.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

EPS 3600 - Planetology: A Trip Through the Solar System

4 Credit(s) Hours: *6 hrs.*

Introduction to the planets, moons and smaller bodies that occupy our Solar System, and to current Space Science research and technology. Topics include the origin and evolution of our solar system, the geological and chemical characteristics of the planets, moons, asteroids, comets and life in the solar system.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

EPS 3800 - Introduction to Earth Science

4 Credit(s) Hours: *6 hrs.*

The earth's environment, meteorology, geology, astronomy, and oceanography. Field trips and laboratory work included.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

EPS 9201 - Research I

1-3 Credit(s) Hours: *2-6 laboratory hrs.*

Planning and carrying out an undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

EPS 9202 - Research II

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

EPS 9203 - Research III

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

EPS 9204 - Research IV

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

Economics

ECO 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: 1-3 *hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Business

ECO 1200 - Macroeconomics

3 Credit(s) Hours: *3 hrs.*

A macroeconomic study of the American economy. An analysis of the fundamental institutions, functions, and goals of the basic sectors in American capitalism, current macroeconomic issues, national income accounting, application of economic principles and concepts to the U.S. economy, the effects of money, banking, monetary, and fiscal policies. Includes analysis of U.S. economic growth and its role in the global economy and a microeconomic analysis of supply and demand in a perfectly competitive market structure.

Flexible Core: Individual and Society (Group D)

Department: Business

ECO 1300 - Microeconomics

3 Credit(s) Hours: *3 hrs.*

An analysis of the determination of price under alternative market structures. Particular emphasis will be placed on understanding the economic behavior of the household, the business firm, and government.

Flexible Core: Individual and Society (Group D)

Department: Business

ECO 1400 - Money and Banking

3 Credit(s) Hours: *3 hrs.*

A comprehensive study of the nature of money and monetary standards, the development, structure, and functions of American central banking commercial banking, non-bank financial intermediaries, investment banking, and financial markets. Federal and State bank regulation and supervision, major monetary theories. Analysis of the impact and major role of the American banking system on the economy. Includes a study of international finance.

Department: Business

ECO 2200 - Principles of Financial Management

3 Credit(s) Hours: *3 hrs.*

This course will introduce students to key financial concepts and the application of financial analysis in making sound business decisions. Topics include: time value of money, risk and rates of return, asset valuation, capital budgeting, and capital structure. Students will gain an understanding of financial assets, financial markets, financial intermediaries and the banking system. Students will also understand financial statements (i.e. balance sheet, income statement, and cash flow statement) published by corporations and the various ratios utilized by investors. Upon completion of this course, students will understand and apply these concepts and skills in business decisions. Recommended for Accounting and Business majors planning to transfer to equivalent baccalaureate programs at Brooklyn College and other senior colleges.

Prerequisite(s): ACC 1200

Prerequisite(s)/Corequisite(s): ECO 1200 and ECO 1300

Department: Business

Education

EDU 2800 - Techniques in Math, Science and Social Studies Teaching for Early Childhood Education

2 Credit(s) Hours: *2 hours*

Knowledge and understanding of methods of teaching pre-mathematics, science and social studies in early childhood classrooms. Experiential methods that permit young children to learn through discovery will be given special emphasis as well as the theoretical underpinnings of these methods. Course cannot be taken more than two times.

Department: Behavioral Sciences

EDU 4500 - Sign Language in the Classroom I

2 Credit(s) Hours: *2 hours*

Designed to help students use Signed English and American Sign Language. Special emphasis will be placed on uses in the classroom. At the conclusion, students will be familiar with the various forms of communication used by the deaf/hard-of-hearing community, and the uses of ASL and Signed English in the classroom, deaf culture and the special needs of deaf/hard-of-hearing students.

Department: Behavioral Sciences

EDU 4600 - Sign Language in the Classroom II

2 Credit(s) Hours: *2 hours*

A continuation of EDU 4500. Students will continue to build their receptive and expressive sign language skills for the classroom, and their interpreting skills through oral and written exercises. At the conclusion of the course students will possess a functional vocabulary for use with the deaf and hearing impaired community, as well as basic interpreting skills for use in the classroom.

Prerequisite(s): EDU 4500

Department: Behavioral Sciences

EDU 5000 - Educational Technology for Paraprofessionals

3 Credit(s) Hours: *3 hrs.*

Introduction to computer operating systems and industry standard software and evaluation, discussion, and demonstration of educationally-based software. Guided exploration of how computers and other technologies can support instruction, use of technology to access information and enhance personal productivity and productivity as a member of the classroom team.

Department: Behavioral Sciences

EDU 5200 - Introduction to Inclusive Classrooms: Strategies for Effective Instruction

3 Credit(s) Hours: *3 hrs.*

The design and delivery of effective instruction for all pupils in inclusive classrooms, those with disabilities and those without, including those whose special learning needs may not be formally diagnosed.

Department: Behavioral Sciences

Emergency Medical Services

EMS 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of emergency medical services is developed individually between student and faculty member and must be approved by the Department.

Department: Allied Health, Mental Health and Human Services

EMS 100 - Emergency Medical Technician - Basic

5 Credit(s) Hours: *12 hrs.*

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as an emergency medical technician (EMT). It reviews material including, but not limited to: overview of emergency medical services (EMS), EMS systems, roles of EMTs and paramedics, basic anatomy and physiology, preparatory and basic airway management, cardiopulmonary resuscitation (CPR), patient assessment, medical/behavioral obstetrical/gynecological, traumatic, and medical emergencies for neonate, pediatric, adult and geriatric patients. Lab work includes bleeding control, CPR, patient assessment and management, splinting, patient immobilization, moving techniques, and ambulance operations. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. Students must satisfactorily perform all practical skills in order to successfully complete the course.

Prerequisite(s): Passed, exempt, **or** completed developmental course work for the CUNY Assessment Tests in Reading, Writing, and ACCUPLACER CUNY Assessment Test in Math, **or** Department permission

Prerequisite(s)/Corequisite(s): BIO 1100

Department: Allied Health, Mental Health and Human Services

EMS 101 - EMT - Basic Clinical I

1 Credit(s) Hours: *6 hrs.*

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as an emergency medical technician (EMT). It reviews material including, but not limited to: infants and children, other special populations, ambulance operations, and working as part of a pre-hospital care team including paramedics. Lab work includes: bleeding control, CPR, patient assessment and management, splinting, patient immobilization, moving techniques, and weapons of mass destruction (WMD) awareness. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. Students will participate in a series of clinical/field observations of eight-hour shifts either in an emergency department (clinical) or on an ambulance (field). Students must satisfactorily perform all practical skills in order to successfully complete the course. The number of minimum patient experiences is delineated. Some students, however, may be required to schedule additional shifts to acquire an acceptable minimum of competencies and experiences.

Prerequisite(s)/Corequisite(s): EMS 100

Department: Allied Health, Mental Health and Human Services

EMS 210 - Paramedic I

7 Credit(s) Hours: *16 hrs.*

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It will review material including, but not limited to: overview of emergency medical services (EMS), EMS systems, the role of the paramedic, introduction to National Standards Curriculum, preparatory, advanced anatomy and physiology and advanced airway management, and patient assessment and management. Lab work includes: patient assessment and management, bleeding control, fracture management, intravenous (IV) access techniques, endotracheal intubation, calculating dosages, preparing medications for administration, and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. Students must satisfactorily perform all practical skills in order to successfully complete the course.

Prerequisite(s): EMS 101, BIO 1100 and ENG 1200

Corequisite(s): EMS 211

Department: Allied Health, Mental Health and Human Services

EMS 211 - Paramedic Clinical I

2 Credit(s) Hours: *15 hrs.*

This clinical course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It is designed to introduce the student to the clinical aspect in the field of emergency medical services in specific areas of preparatory and advanced airway in the setting of a hospital department (clinical) and/or ambulance (field). Students will participate in a series of clinical/field rotations of eight-hour shifts either in a hospital department or on an ambulance.

Clinical/field rotations include areas such as adult and pediatric emergency departments, critical care units, morgue, operating room, psychiatric units, labor and delivery, other hospital departments (as needed) and basic and advanced life support ambulances. Lab work includes: patient assessment and management, bleeding control, fracture management, intravenous (IV) access techniques, endotracheal intubation, calculating dosages, preparing medications for administration, and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. The number of minimum patient experiences is delineated. Some students, however, may be required to schedule additional shifts to acquire an acceptable minimum of competencies and experiences. Students must satisfactorily perform all practical skills in order to successfully complete the course. This course is the first of a four-course clinical sequence.

NOTE: Since paramedic students are already NYS-Certified EMTs, they are expected to participate in patient care (under direct supervision of a preceptor) up to their level of training.

Prerequisite(s): EMS 101, BIO 1100 and ENG 1200

Corequisite(s): EMS 210

Department: Allied Health, Mental Health and Human Services

EMS 220 - Paramedic II

5 Credit(s) Hours: *16 hrs.*

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It reviews material including, but not limited to: assessment and management of the medical and trauma patient, selecting and implementing an appropriate treatment plan for a wide range of complaints including respiratory, cardiovascular, neurological, environmental and obstetrical emergencies, introduction to pre-hospital pharmacology, and introduction to electrocardiogram monitoring. Lab work involves: patient assessment and management, bleeding control, advanced fracture management, intravenous (IV) access techniques, endotracheal intubation, calculating dosages, preparing medications for administration and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. Students must satisfactorily perform all practical skills in order to successfully complete the course.

Offered only during winter or summer module.

Prerequisite(s): EMS 210 and EMS 211

Corequisite(s): EMS 221

Department: Allied Health, Mental Health and Human Services

EMS 221 - Paramedic Clinical II

3 Credit(s) Hours: *15 hrs.*

This clinical course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It is designed to continue the student experience in the clinical aspect in the field of emergency medical services in specific areas of preparatory, advanced airway management, trauma and medical in the setting of a hospital department (clinical) and/or ambulance (field). Students will participate in a series of clinical/field rotations of eight-hour shifts either in a hospital department or an ambulance. Clinical/field rotations include areas such as adult and pediatric emergency departments, critical care units, morgue, operating room, psychiatric units, labor and delivery, other hospital departments (as needed) and basic and advanced life support ambulances. Lab work includes: patient assessment and management, intravenous (IV) access techniques, endotracheal intubation, calculating dosages, preparing medications for administration and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital, and/or field setting. The number of minimum patient experiences is delineated. Some students, however, may be required to schedule additional shifts to acquire an acceptable minimum of competencies and experiences. Students must satisfactorily perform all practical skills in order to successfully complete the course. This course is the second of a four-course clinical sequence.

Since paramedic students are already NYS-Certified EMTs, they are expected to participate in patient care (under direct supervision of a preceptor) up to their level of training.

Offered only during winter or summer module.

Prerequisite(s): EMS 210 and EMS 211

Corequisite(s): EMS 220

Department: Allied Health, Mental Health and Human Services

EMS 230 - Paramedic III

7 Credit(s) Hours: *16 hrs.*

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It reviews material including, but not limited to: special considerations, environmental emergencies, assessment-based management, selecting and implementing an appropriate treatment plan for a wide range of complaints including respiratory, cardiovascular, neurological, environmental and obstetrical emergencies, detailed pre-hospital pharmacology, and detailed electrocardiogram monitoring. Lab work includes: patient assessment and management, bleeding control, advanced fracture management, intravenous (IV) access techniques, endotracheal intubation, calculating dosages, preparing medications for administration and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. Students must satisfactorily perform all practical skills in order to successfully complete the course.

Prerequisite(s): EMS 220 and EMS 221

Corequisite(s): EMS 230

Department: Allied Health, Mental Health and Human Services

EMS 231 - Paramedic Clinical III

2 Credit(s) Hours: *15 hrs.*

This clinical course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It is designed to continue the student experience in the clinical aspect in the field of emergency medical services in specific areas of preparatory, advanced airway management, trauma and medical, and pharmacology in the setting of a hospital department (clinical) and/or ambulance (field). Students will participate in a series of clinical rotations of eight-hour shifts either in a hospital department or an ambulance. Clinical rotations include areas such as adult and pediatric emergency departments, critical care units, morgue, operating room, psychiatric units, labor and delivery, other hospital departments (as needed) and basic and advanced life support ambulances. Lab work includes: patient assessment and management, intravenous (IV) access techniques, endotracheal intubation, calculating dosages, preparing medications for administration, and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. The number of minimum patient experiences is delineated. Some students, however, may be required to schedule additional shifts to acquire an acceptable minimum of competencies and experiences. Students must satisfactorily perform all practical skills in order to successfully complete the course. This course is the third of a four-course clinical sequence.

Since paramedic students are already NYS-Certified EMTs, they are expected to participate in patient care (under direct supervision of a preceptor) up to their level of training.

Prerequisite(s): EMS 220 and EMS 221

Corequisite(s): EMS 230

Department: Allied Health, Mental Health and Human Services

EMS 240 - Paramedic IV

5 Credit(s) Hours: *16 hrs.*

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It reviews material including, but not limited to: EMS operations, public health, hazardous materials awareness and weapons of mass destruction (WMD) awareness, NYC EMS protocols, selecting and implementing an appropriate treatment plan for neonatal, pediatric, adult and geriatric patients with a variety of complaints including respiratory, cardiovascular, neurological, environmental, trauma, psychiatric, altered mental status, abdominal and obstetrical emergencies. Lab work includes: patient assessment and management, advanced fracture management, intravenous (IV) access techniques, endotracheal intubation, calculating dosages, preparing medications for administration and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. Students must satisfactorily perform all practical skills in order to successfully complete the course.

Prerequisite(s): EMS 230 and EMS 231

Corequisite(s): EMS 241

Department: Allied Health, Mental Health and Human Services

EMS 241 - Paramedic Clinical IV

3 Credit(s) Hours: *15 hrs.*

This clinical course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It is designed to continue the student experience in the clinical aspect in the field of emergency medical services in specific areas of advanced airway management, medical, trauma, pharmacology, special considerations and operations in the setting of a hospital department (clinical) and/or ambulance (field). Students will participate in a series of clinical rotations of eight hour shifts either in a hospital department or on an ambulance. Clinical rotations include areas such as adult and pediatric emergency departments, critical care units, morgue, operating room, psychiatric units, labor and delivery, other hospital departments (as needed) and basic and advanced life support ambulances. Lab work includes: patient assessment and management, bleeding control, fracture management, intravenous (IV) access techniques, endotracheal intubation, and calculating dosages, preparing medications for administration, and practice in all administration techniques. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. The number of minimum patient experiences is delineated. Some students, however, may be required to schedule additional shifts to acquire an acceptable minimum of competencies and experiences. Students must satisfactorily perform all practical skills in order to successfully complete the course. This course is the fourth of a four-course clinical sequence. As the final clinical course and as part of the field internship phase, students must demonstrate the ability to serve as team leader in a variety of pre-hospital emergency situations.

Since paramedic students are already NYS-Certified EMTs, they are expected to participate in patient care (under direct supervision of a preceptor) up to their level of training.

Offered only during winter or summer module.

Prerequisite(s): EMS 230 and EMS 231

Corequisite(s): EMS 240

Department: Allied Health, Mental Health and Human Services

Engineering Science

EGR 2100 - Engineering Design

3 Credit(s) Hours: *5 hrs.*

For a beginning engineering students, hands-on investigations and an appreciation of the importance of engineering in our society. In the laboratory, students will investigate problems relevant to the study of engineering, including mechanical, robotic and bridge design. Computers will be utilized for all relevant laboratory sessions. Lecture discussions will include preparation for the labs and discussions of approaches engineers have used to solve difficult problems.

Prerequisite(s): CUNY English **and** MAT 900

Prerequisite(s)/Corequisite(s): MAT 1400; **or** Department Permission

Department: Physical Sciences

EGR 2200 - Introduction to Electrical Engineering

3 Credit(s) Hours: *4 hrs.*

First course in electrical engineering, includes: circuit elements and their voltage-current relations, Kirchoff's laws, elementary circuit analysis, continuous and discrete signals, differential and difference equations, first order systems.

Required for Engineering Science Majors.

Prerequisite(s): PHY 1400 **or** Department Permission

Prerequisite(s)/Corequisite(s): MAT 5500 **and** MAT 5600; **or** EGR 2200 Skills Support; **or** Department Permission. Contact Department of Physical Sciences for EGR 2200 Skills Support information.

Department: Physical Sciences

EGR 2300 - Introduction to Engineering Thermodynamics

3 Credit(s) Hours: *4 hrs.*

First course in engineering thermodynamics. Topics include Zeroth Law and absolute temperature, work, heat, First Law and applications, Second Law, Carnot theorems, entropy, thermodynamic state variables and functions, reversibility, irreversibility, and availability functions, Ideal gas mixtures, mixtures of vapors and gas, and humidity calculations.

Required for Engineering Science Majors.

Prerequisite(s): CHM 1200 **and** PHY 1300 **and** MAT 1600 **OR**

Prerequisite(s)/Corequisite(s): EGR 2300 Skills Support; **or** Department Permission. Contact Department of Physical Sciences for EGR 2300 Skills Support information.

Department: Physical Sciences

EGR 9201 - Research I

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

EGR 9202 - Research II

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

EGR 9203 - Research III

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

EGR 9204 - Research IV

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

English as a Second Language (ESL)

ESL 91A7 - Developing Fluency in Reading and Writing for ESL Students

0 Credit(s) 8 Equated Credit(s) Hours: *8 hrs.*

This is the third course in an ESL sequence designed for students whose first language is not English and whose results on the CUNY ESL Accuplacer indicate that they need work on their reading and writing at the high intermediate level. This course emphasizes reading, writing, and critical thinking skills. Also required of students who have successfully completed ESL 900.

Department: English

ESL 101 - Accelerated Academic ESL I

0 Credit(s) 10 Equated Credit(s) Hours: *10 hrs.*

This two-semester Learning Community course, beginning in the fall and continuing in the spring, is open to all incoming students whose first language is not English and whose results on the CUNY Reading and Writing exams indicate that they need work on developing these areas. During semester one (ESL 101), the focus is on reading, low-stakes writing, and media literacy. During semester two (ESL 102), the emphasis continues to be on reading while building towards more formal academic writing.

Prerequisite(s): ESL Student Group and CUNY ESL Accuplacer Composite Score of 66-97

Corequisite(s): ENG 1050

Department: English

ESL 102 - Accelerated Academic ESL II

0 Credit(s) 10 Equated Credit(s) Hours: *10 hrs.*

This two-semester Learning Community course, beginning in the fall and continuing in the spring, is open to all incoming students whose first language is not English and whose results on the CUNY Reading and Writing exams indicate that they need work on developing these areas. During semester one (ESL 101), the focus is on reading, low-stakes writing, and media literacy. During semester two (ESL 102), the emphasis continues to be on reading while building towards more formal academic writing.

Prerequisite(s): ESL 101

Department: English

ESL 700 - Basic Reading and Writing for Students Learning English as a Second Language

0 Credit(s) 10 Equated Credit(s) Hours: *10 hrs.*

This is the first course in an ESL sequence designed for students whose first language is not English and whose results on the CUNY Reading and Writing exams indicate that they need extensive work on developing these areas. Activities include intensive work on reading, writing and revision, with an emphasis on developing fluency in writing and basic reading comprehension.

Department: English

ESL 900 - Intermediate Reading and Writing for Students Learning English as a Second Language

0 Credit(s) 10 Equated Credit(s) Hours: *10 hrs.*

This is the second course in an ESL sequence designed for students whose first language is not English and whose results on the CUNY Reading and Writing exams indicate that they need work on their reading and writing at the intermediate level. This course consists of various activities to improve English language communication skills, emphasizing clarity in writing and increased reading comprehension.

Department: English

English as a Second Language (ESL): College Now

ESL BW100 - Foundations for College-Level Reading and Writing for ESL Students, I

0 Credit(s) Hours: *4 hrs.*

Low intermediate portfolio-based course designed to help students develop the fluency, focus, analytical and organizational skills needed to become successful college writers. Readings are from various multi-cultural genres and of varying lengths. First part of a two-semester course sequence.

Prerequisite(s): Students must be designated as ESL

Department: English

ESL BW200 - Foundations for College-Level Reading and Writing for ESL Students, II

0 Credit(s) Hours: *4 hrs.*

High intermediate/advanced portfolio-based course that is the second part of a two-semester course sequence designed to develop reading competence and writing fluency in students with English as a second language.

Prerequisite(s): Students must be designated as ESL

Department: English

Exercise Science

EXS 91X6 - Field Experience in Exercise Science

3 Credit(s) Hours: *1 class hr. plus 100 field hrs.*

Under staff supervision, students will provide personal training services in Kingsborough's on-campus faculty/staff fitness clinic, provide student oversight during open recreational hours in Kingsborough's fitness center, and design and lead group fitness activities for students. Students are required to have certification in adult cardiopulmonary resuscitation with automated external defibrillator and must have appropriate liability insurance. Both must be valid for the entire semester.

Hours to be arranged by department.

Prerequisite(s): EXS 900, EXS 1000, EXS 1100, EXS 1200, EXS 1300 and EXS 1500. Open only to Exercise Science majors.

Department: Health, Physical Education and Recreation

EXS 500 - Introduction to Exercise Science

3 Credit(s) Hours: *3 hrs.*

This course is an introduction to the Exercise Science Major. An overview of the professions and academic disciplines related to exercise science will be covered, along with the education and experience required for entry level and advanced positions within the field. The course will also introduce the scientific method and its relevance to the study and practice of exercise science and the ethical and legal responsibilities of an exercise science professional.

Department: Health, Physical Education and Recreation

EXS 900 - Introduction to Personal Training

3 Credit(s) Hours: *3 hrs.*

This course is the introduction course to the Personal Training major. All aspects of personal training will be covered, including the necessary qualifications and responsibilities of a trainer, the various job opportunities that are available, legal considerations, psychological and motivational factors in working with different types of individuals, and how to set up and run a personal training business.

Open to all students.

Department: Health, Physical Education and Recreation

EXS 1000 - Kinesiology of Exercise

3 Credit(s) Hours: *3 hrs.*

Mechanical principles of human motion, macroscopic analysis of bones and muscles, joint leverage and limitations, types of muscular contractions and the relationship of muscular efficiency to posture, and analysis of motor activities.

Prerequisite(s): BIO 1100

Department: Health, Physical Education and Recreation

EXS 1100 - Physiology of Exercise

3 Credit(s) Hours: *3 hrs.*

The effects of exercise on human body, the foundation of exercise physiology and the application of the physiological principles which govern the science of sport and exercise. Emphasis is on how the cardiovascular and pulmonary systems work with the muscular system and the development of safe and productive physical training programs.

Prerequisite(s): BIO 1100

Department: Health, Physical Education and Recreation

EXS 1200 - Health Risk Appraisal

3 Credit(s) Hours: *3 hrs.*

Review of the pathophysiology, medications, and signs and symptoms of selected diseases, disorders and disabilities. Design of safe and effective exercise programs that consider the effects of these conditions and their treatment on the body's response and adaptation to exercise. Assessment of posture, range of motion, muscular fitness and gait.

Prerequisite(s)/Corequisite(s): EXS 1000

Department: Health, Physical Education and Recreation

EXS 1300 - Fitness Assessment and Program Design

3 Credit(s) Hours: *3 hrs.*

Methods to assess individual health status and risk factors prior to initiating an exercise program.

Techniques for assessing the components of physical fitness, including cardiorespiratory endurance, muscular fitness, flexibility and body composition. Using objective and subjective information, design safe and effective exercise programs for apparently healthy adults.

Prerequisite(s): EXS 500

Department: Health, Physical Education and Recreation

EXS 1500 - Lifetime Strength and Flexibility Training

3 Credit(s) Hours: *3 hrs.*

Methods and techniques for designing and implementing muscular fitness training programs, the use of various modalities designed for improving muscular fitness and how to modify these activities in response to the changes encountered throughout an individual's lifetime.

Prerequisite(s): EXS 500

Department: Health, Physical Education and Recreation

EXS 2000 - Exercise, Energy Balance, and Weight Management

3 Credit(s) Hours: *3 hrs.*

Concepts and principles of energy balance, body composition, weight management, and physical activity as they relate to personal health. Examines the causes of obesity, its impact on human health and explores weight loss and diet options for the individual from a holistic perspective. Using case studies, students will complete a lifestyle analysis, develop nutritionally sound dietary plans, and design specialized exercise programs tailored to address an individual's personalized weight management goals.

Prerequisite(s): HE 4200, HPE 1200, EXS 1300, and EXS 1500

Department: Health, Physical Education, and Recreation

Fashion Design

FD 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of business administration is developed individually between student and faculty member and must be approved by the Department.

Department: Business

FD 1100 - Fashion Sketching for Fashion Designers

3 Credit(s) Hours: *3 hrs.*

First of two courses in fashion sketching, students learn basic croquis (specialized figure) drawing, develop their own set of croquis, and use them to sketch their own designs. Sketching all types of garments and silhouettes is covered using pencil, watercolor, and marker techniques.

Prerequisite(s): Only open to Fashion Design, Retail Merchandising, and Theatre Arts Majors.

Department: Business

FD 1200 - Fashion Sketching for Fashion Designers II

3 Credit(s) Hours: *3*

Second of two courses in fashion sketching, students sketch an original design collection - a minimum of eight (8) coordinated outfits. Fabric swatching and multiple views are required. Additional work is done on portfolio preparation, and sketching technique refinement.

Prerequisite(s): FD 1100 and BF 3500 Only open to Fashion Design and Business of Fashion (previously Retail Merchandising) Majors.

Prerequisite(s)/Corequisite(s): FD 1300

Department: Business

FD 1300 - Computerized Fashion Design

3 Credit(s) Hours: *3*

Advanced Fashion Design students learn a variety of computer programs for sketching and creating designs using a stylus and a pressure sensitive tablet. Photoshop, Adobe Illustrator and fashion design plug-ins are covered.

Prerequisite(s): Open only to Fashion Design and Business of Fashion (previously Retail Merchandising) Majors. For Fashion Design majors: FD 1100 and BA 6000 Prerequisite for Business of Fashion majors: BA 6000

Department: Business

FD 1400 - Garment Construction

3 Credit(s) Hours: 3

Basic sample room garment construction procedures including seaming, seam finishing, pockets, collars, setting sleeve, pleats, gathers, darts and various other techniques are covered. Students construct garments to demonstrate mastery of various techniques.

Prerequisite(s): Only open to Fashion Design, Business of Fashion (previously Retail Merchandising), and Theatre Arts Majors.

Department: Business

FD 2000 - Flat Patternmaking

3 Credit(s) Hours: 3 hrs.

Mastering the skills of flat pattern drafting and manipulation for both menswear and womenswear. Basic pattern manipulation techniques including dart manipulation, contoured seaming, and the slash and spread method are covered. Students must use flat pattern drafting to create, cut, and sew one garment.

Prerequisite(s)/Corequisite(s): FD 2100

Department: Business

FD 2100 - Fashion Design I

3 Credit(s) Hours: 3

Introduction to draping and flat pattern design, including development of slopers (base patterns) for bodices, sleeve and skirts via draping on dress forms. Translating slopers into hard patterns and then flat patterns to manipulate fullness into various design styles. Students must complete a garment (dress or suit) constructed in fabric for final project.

Prerequisite(s)/Corequisite(s): FM 3500 or BF 3500

Department: Business

FD 2200 - Fashion Design II

3 Credit(s) Hours: 3

Advanced draping techniques are explored, along with flat pattern work. Draping in actual fabrics, sample room techniques, and garment finishing are covered. Pants slopers are developed. Students must complete two (2) complete outfits for inclusion in the annual Fashion Show presentation.

Prerequisite(s): FD 2100 and FM 3500 or BF 3500

Department: Business

FD 2300 - Design Trends and Aesthetics

3 Credit(s) Hours: *3 hrs.*

Intermediate design students study current trends in women's wear, paying special attention to construction analysis, line, fabric and color selection and price points. Design principles are explored, and current designer collections analyzed for design merits and marketability. Students own sense of style is developed and refined.

Department: Business

FD 2500 - Advanced CAD for Fashion Design

3 Credit(s) Hours: *3 hrs.*

Second course in the CAD series for Fashion Design. The three-dimensional capabilities of the Optitex software package will be covered. Students produce high-resolution still color images and video of design concepts, including the use of Runway to create three-dimensional visualizations of designs. Advanced work in the Adobe suite is also covered.

Prerequisite(s): BA 6000, FD 2100 and FD 1300

Prerequisite(s)/Corequisite(s): FD 2000 and FD 2200

Department: Business

FD 9200 - Field Experience in Fashion Design

3 Credit(s) Hours: *1 class hr., 8 internship hrs. minimum*

Supervised field experience in fashion design, plus one hour a week devoted to seminar discussion of relevant field experience, is required. All students must have an internship as an assistant designer.

Open only to graduating Fashion Design Majors with no developmental core requirements.

Department: Business

Fashion Merchandising

FM 3200 - Product Development

3 Credit(s) Hours: *3*

Introduction to the concepts and methods by which retailers create special, store-branded merchandise for targeted customer segments. The process from product research through development and distribution is studied.

Listed now as BF 3200

Department: Business

FM 3500 - Textile and Non-Textile Analysis

3 Credit(s) Hours: 3

Fashion fabrics and non-textile merchandise information, including their identification, characteristics, merits, limitations and care. Study of fibers, yarns, construction, finishes, coloring of fabrics, leather, furs, jewelry, and other non-textile products, and their success in the marketplace. Characteristics of a wide range of fabrics and products are explored.

Now BF 3500.

Prerequisite(s): BF 3100 or RM 3100. BF 3100 or RM 3100 **NOT** required for Fashion Design Majors.

Department: Business

FM 3600 - Visual Merchandising and Display

3 Credit(s) Hours: 4 hrs.

Visual merchandising communicates merchandise information to customers and encourages people to buy. The purpose, value, and methods of display as a part of sales promotion and how it fits into the total marketing picture, designing and building interior window and point-of-purchase merchandise displays.

Prerequisite(s): BF 3100 or MM 3100

Department: Business

FM 3700 - Fashion Merchandising

3 Credit(s) Hours: 3 hrs.

Course will prepare students for career paths as buyers and merchandisers by acquainting them with renowned designers of the past and present and by exploring current trends in men's and women's apparel.

Department: Business

FM 3900 - Fashion Sales Promotion

3 Credit(s) Hours: 3

Fashion activities that promote and stimulate the sale of fashion goods, practical experience in the preparation of special events, sales promotions and publicity similar to those initiated by apparel manufacturers, wholesalers and retailers, and criteria to analyze and evaluate these activities.

Now listed as BF 3900

Prerequisite(s): FM 3700 or MM 3700 or MM 3800

Department: Business

French

FR 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of French is developed individually between student and faculty member and must be approved by the Department.

Department: Communications and Performing Arts

FR 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

FR 100 - Elementary French I

3 Credit(s) Hours: *3 hrs.*

For students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis on correct pronunciation through intensive oral practice, use of the language laboratory and audio-visual materials, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

Not open to native speakers.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

FR 200 - Elementary French II

3 Credit(s) Hours: *3 hrs.*

Further development of language skills, comprehension, speaking, reading and writing.

Prerequisite(s): FR 100 **or** acceptable Language Placement Examination score

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

FR 300 - Intermediate French I

3 Credit(s) Hours: *3 hrs.*

Progressive development of language skills, based on foundations established in elementary French. Grammar review supplemented by readings of modern French literature.

Prerequisite(s): FR 200 **or** acceptable Language Placement Examination score

Department: Communications and Performing Arts

FR 400 - Intermediate French II

3 Credit(s) Hours: *3 hrs.*

Advanced grammar, composition and reading of modern French authors.

Prerequisite(s): FR 300 **or** acceptable Language Placement Examination score

Department: Communications and Performing Arts

FR 2200 - French Conversation

3 Credit(s) Hours: *3 hrs.*

Practice in conversational patterns and basic vocabulary leading to fluency in everyday situations.

Prerequisite(s): FR 100 **or** acceptable Language Placement Examination score

Department: Communications and Performing Arts

FR 5700 - Haitian Culture and Civilization

3 Credit(s) Hours: *3 hrs.*

Chronological study of major trends and developments in Haitian culture and civilization from Columbus to the present. Political, literary and artistic movements, significant historical and intellectual figures and various areas of Haiti included.

Instruction is in English

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

Health Education

HE 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Health, Physical Education and Recreation

HE 1400 - Critical Issues in Personal Health

1 Credit(s) Hours: *2 hrs.*

Critical health issues from chronic diseases such as cancer, cardiovascular disease, and diabetes mellitus, to communicable diseases such as human immunodeficiency virus and other sexually transmitted infections. Students analyze the role of health risk behaviors in the development of disease, injury and disability, and design a personal wellness plan for health promotion.

Department: Health, Physical Education and Recreation

HE 2000 - Community CPR

1 Credit(s) Hours: *1 hr.*

Knowledge and basic skills necessary to meet respiratory and cardiac emergencies in adults, children and infants. Upon successful completion of this course, students will receive the American Red Cross Certificate for Community CPR.

Department: Health, Physical Education and Recreation

HE 2100 - Emergency Cardiac Care

1 Credit(s) Hours: *1 hr.*

Knowledge and skill required to meet cardiac emergencies including Adult CPR and use of the automated external defibrillator. Upon successful completion, students will receive the Red Cross Certificate for Adult CPR and AED.

Department: Health, Physical Education and Recreation

HE 2200 - Basic Life Support for the Healthcare Provider and First Aid

3 Credit(s) Hours: *3 hrs.*

Basic Life Support for the Healthcare Provider and First Aid will provide students with necessary lifesaving skills to work in a variety of healthcare settings. Students will learn to recognize and respond to a variety of life-threatening emergencies such as cardiac arrest, heart attack, stroke, diabetic emergencies, opioid associated emergencies, injury and environmental emergencies. Students will employ high-quality CPR in multi-rescuer BLS team response scenarios, effectively demonstrate the use of automated external defibrillator (AED), provide ventilations using a pocket mask and bag valve mask (BVM), and removal of foreign-body airway obstructions during choking emergencies for adults, children, and infants. Effective communication, teamwork, critical thinking, and problem-solving skills will be emphasized. Upon completion of course and certification requirements, students will have the ability to apply for the BLS for Healthcare Provider and a Heartsaver First Aid certification from the American Heart Association.

Department: Health, Physical Education and Recreation

HE 3300 - Stress Management

2 Credit(s) Hours: *2 hrs.*

To help students understand and cope more effectively with stress in their daily lives, course topics include: causes, components and consequences of stress, how to measure stress, and strategies/techniques to control stress.

Department: Health, Physical Education and Recreation

HE 3400 - Survey of Holistic Health Care

3 Credit(s) Hours: *3 hrs.*

Investigation of popular alternative health care therapies including mind/body interventions, manual healing, diet, nutrition and lifestyle changes, with an emphasis on understanding the theory, research, materials, and methodologies that underlie these different approaches to healing and wellness.

Department: Health, Physical Education and Recreation

HE 3500 - First Aid and Personal Safety

2 Credit(s) Hours: *2 hrs.*

Principles for first aid and personal safety in terms of theory and practice of first aid procedures. Qualified students receive American Red Cross Certification. Course fulfills the safety and first aid requirement for those contemplating a teaching career.

Department: Health, Physical Education and Recreation

HE 3800 - Women's Health Issues

3 Credit(s) Hours: *3 hrs.*

A comprehensive exploration of current health issues and their specific impact on women. The health concerns for each developmental phase of a woman's life are covered, with an emphasis on behaviors that can enhance wellness.

Department: Health, Physical Education and Recreation

HE 4200 - Health and Nutrition

3 Credit(s) Hours: *3 hrs.*

The role of nutrition in disease prevention and health promotion as outlined in the Surgeon General's report to the nation, Healthy People 2010. Students analyze the research linking foods, nutrients, phytochemicals, supplements, and herbs to the leading causes of morbidity in the United States. Students will design an optimal nutritional plan for lifelong wellness.

Department: Health, Physical Education and Recreation

HE 5000 - Weight Management

2 Credit(s) Hours: *2 hrs.*

Students will design a weight management program that emphasizes healthy food choices and consistent patterns of physical activity. Behavioral self-monitoring logs and in-class physical activity included.

Department: Health, Physical Education and Recreation

HE 5400 - Men's Health Issues

3 Credit(s) Hours: *3 hrs.*

Examination of men's health from multiple perspectives, historical and current. The impact of men's attitudes on health issues is emphasized. Men's health issues across the lifespan are addressed.

Department: Health, Physical Education and Recreation

HPE 1200 - Concepts of Wellness

3 Credit(s) Hours: *3 hrs.*

This fundamental course covers a broad spectrum of health-related topics to make students aware of the causes of mental and physical illnesses and their prevention, and demonstrates how lifestyle, perceptions, and decisions affect health. Guidelines and criteria presented to determine good mental, emotional, and physical health. Opportunities for personal assessment.

Department: Health, Physical Education and Recreation

HPE 1500 - Fitness Assessment and Prescription

2 Credit(s) Hours: *3 hrs.*

Learn principles of physical fitness. Complete a variety of fitness tests and create a personal fitness program including aerobic and anaerobic activities. Develop muscular strength and endurance; improve body composition, cardiovascular fitness, and flexibility. Learn the variety of tools/equipment to achieve physical fitness.

Department: Health, Physical Education and Recreation

Health Science

HS 4000 - Drugs: The Individual and Society

3 Credit(s) Hours: *3 hrs.*

Provides students with an opportunity to gain a deeper perspective into the psychology of the dependent personality, reasons for drug use, misuse, abuse, and possible solutions.

(Previously HE 4000)

Flexible Core: Individual and Society (Group D)

Department: Health, Physical Education and Recreation

HS 4100 - Global Health Issues

3 Credit(s) Hours: *3 hrs.*

This course takes a comprehensive look at global health issues. The assessment of health issues will be analyzed from many different perspectives including geographic, ethnic, religious, human rights, socioeconomic, social, cultural, and political influences. Students will learn about global environmental causes and consequences of infectious diseases, major diseases, mental illness, natural disasters, malnutrition, drug and alcohol addiction, violence, and injuries.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Health, Physical Education and Recreation

HS 5200 - Human Sexuality

3 Credit(s) Hours: *3 hrs.*

This course explores sexual attitudes, behavior, and health across the lifespan. Examines sexual anatomy and physiology, reproductive health and rights, gender development and identity, intimacy and communication, birth control & contraception, sexual orientation, sexual response, sexual expression, sexual disorders, STIs & HIV, sexual assault, sex in the media, and sex work. It also investigates ecological influences on sexual attitudes and behavior and introduces sexuality theories and research.

(Previously HE 5200)

Flexible Core: Individual and Society (Group D)

Department: Health, Physical Education and Recreation

HS 6000 - Food Systems and Health

3 Credit(s) Hours: *3 hrs.*

Students will examine the connection between food systems and health. The role of food production, and urban and conventional agriculture will be examined through social, cultural, and health perspectives. Students will gain the ability to critically analyze food productions and current trends in good consumption and apply them to develop healthy eating strategies in their own lives. Issues of food safety, food justice, and food access will be addressed. Demonstrations and workshops on the KCC Urban Farm will be included.

Flexible Core: Individual and Society (Group D)

Department: Health, Physical Education and Recreation

Hebrew

HEB 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of Hebrew is developed individually between student and faculty member and must be approved by the Department.

Department: Communications and Performing Arts

HEB 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

HEB 100 - Elementary Hebrew I

3 Credit(s) Hours: *4 hrs.*

For students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis on correct pronunciation through intensive oral practice, use of language laboratory and audio-visual materials, acquisition of basic vocabulary and the elements of grammar for conversation comprehension, reading and writing.

Not open to native speakers.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

HEB 200 - Elementary Hebrew II

3 Credit(s) Hours: *4 hrs.*

Further development of language skills, comprehension, speaking, reading, and writing.

Prerequisite(s): HEB 100 **or** acceptable Language Placement Examination score **or** two years of high school Hebrew **or** equivalent

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

HEB 300 - Intermediate Hebrew I

3 Credit(s) Hours: *3 hrs.*

Progressive development of language skills, based on the foundations established in elementary Hebrew. Grammar review supplemented by readings of Modern Hebrew literature.

Prerequisite(s): HEB 200 **or** acceptable Language Placement Examination score **or** two years of high school Hebrew **or** equivalent

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

HEB 3000 - Hebrew Literature in Translation I

3 Credit(s) Hours: *3 hrs.*

Designed for non-Hebrew speaking students, course stresses reading and analysis of Hebrew classics in cultural and historical context.

All readings and discussions are in English.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

HEB 3100 - Hebrew Literature in Translation II

3 Credit(s) Hours: 3 hrs.

Emergence of Hebrew writers in the modern world. Emphasis is on the main literary personalities of the 19th and early 20th centuries. Designed for non-Hebrew speaking students.

All readings and discussions are in English.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

History - United States History

HIS 100 - History of U.S. Cities

3 Credit(s) Hours: 3 hrs.

Through interdisciplinary exploration of primary and secondary sources, the development of American cities over the last four centuries is examined. The important role of cities in the nation's economy, politics, and culture as well as how different groups within cities fought to shape the urban space will be explored.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 1100 - U.S. History I: From the Pre-Colonial Period through the Civil War

3 Credit(s) Hours: 3 hrs.

This class introduces students to historical developments that shaped this nation before and after its founding, such as slavery and the construction of race and racism; the fraught encounter between Native American peoples and white settlers; changes in the economy; debates over concepts such as freedom and liberty; the development of government structures; attempts by women, African Americans, and other disempowered groups to fight for their rights; and growing tensions over slavery, which would lead to the Civil War.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 1200 - U.S. History II: from Post-Civil War to the Present

3 Credit(s) Hours: 3 hrs.

This class introduces students to fundamental challenges the U.S. faced after the Civil War, such as integrating four million formerly enslaved people during Reconstruction; deciding which groups should be allowed in as immigrants; relating as a more powerful nation to the rest of the world; responding to economic crises like the Great Depression; adapting to urbanization and suburbanization; addressing political polarization; and responding to demands for greater rights from workers, people of color, women, and other disenfranchised groups.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 1500 - Era of the Civil War: 1828 to 1877

3 Credit(s) Hours: *3 hrs.*

America, from the age of Jackson to Reconstruction, the growth of a national society, reform movements, the problem of slavery and race, sectionalism and nationalism, the Civil War and the triumph of American capitalism.

Flexible Core: Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 1700 - U.S. History in a Global Context: From The Colonial Period Through The Civil War

3 Credit(s) Hours: *3 hrs.*

This course examines the period from the colonial period through the Civil War. It explores how U.S. history fits into the global context and investigates how such events and institutions as the American Revolution and American slavery can be better understood by examining them in a transnational historical context.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 1800 - U.S. History in a Global Context:1865 to Present

3 Credit(s) Hours: *3 hrs.*

This course explores United States history in the context of global affairs from the late nineteenth century onwards. It investigates, for example, how the United States has defined itself in relation to the wider world; the rise of the United States as a global superpower; and the ways the United States interacts with peoples from around the world, both at home and abroad, have shaped the nation's history.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 1900 - Civil Rights and Related Movements

3 Credit(s) Hours: *3 hrs.*

This introductory course examines the 20th century struggle to include African Americans as full citizens and highlights the Civil Rights Movement's influence on Black Power, the Chicano movement, the United Farmworkers Movement, the American Indian Movement, the Women's Movement, and the LGBT Movement in the U.S., as well as international movements.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 2000 - U.S. Immigration History

3 Credit(s) Hours: *3 hrs.*

This course explores the history of migration to the United States. It investigates the experiences of diverse groups of migrants and examines the interactions between migrant and the nation, exploring the changing meaning of "foreign" and "American."

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 2100 - U.S. Popular Culture

3 Credit(s) Hours: *3 hrs.*

This class offers a survey of the history of United States popular culture from its earliest forms until today. It traces the development of popular culture media and content over time since the colonial period, with emphasis on theater, popular literature, music and film, television, advertising, social media, how popular culture reflects and incorporates United States social issues and change, and the relationships between cultural producers and consumers.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 4100 - History of Indigenous People in the United States

3 Credit(s) Hours: *3 hrs.*

This course examines the history of indigenous peoples from European contact to the present. Among the issues it addresses are: the diversity of indigenous cultures, U.S. government policy regarding indigenous people, political activism including the American Indian Movement and ongoing conflicts over land and sovereignty.

Department: History, Philosophy and Political Science

HIS 5000 - African American History

3 Credit(s) Hours: *3 hrs.*

This course introduces students to African American history from the colonial period to the present. It explores key aspects of the history of African Americans with specific emphasis on the enslavement of African people, the development of African American culture, the ways in which African Americans fought for their rights during slavery, Colonial and post-independence periods, Reconstruction, Jim Crow, and the civil rights era, and the important contributions that African Americans have made and continue to make to the nation's intellectual, political, social, and cultural life.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 5900 - Modern U.S. History from 1945 to the Present

3 Credit(s) Hours: *3 hrs.*

This class introduces students to an in-depth analysis of pivotal issues faced by the U.S. since the end of World War II, including postwar economic growth and suburbanization; the 1950s red scare; the emergence of the U.S. as a world super power and U.S. military engagements such as the Vietnam War; the rise of social protest movements around issues of race, gender, and sexuality; and post 1970s crises such as growing economic inequality, climate change, and political polarization.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 6200 - History of New York City

3 Credit(s) Hours: *3 hrs.*

The history of the City of New York from its founding to the present. New York City's development, its history, its origin as a Dutch trading post, position in colonial culture and society, role in the American Revolution and the founding of the American Republic, growth as a great commercial, transportation, manufacturing, and banking center, citizens' attitude toward slavery and race relations, importance as the center of immigration, growth and expansion into neighboring communities, and its problems and difficulties as a modern megalopolis.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 6800 - U.S. Women's History

3 Credit(s) Hours: *3 hrs.*

This class introduces students to diverse women's experiences and activism from the pre-colonial era to the U.S. present, including the women's suffrage movement, feminism, and movements led by women of color.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

HIS 6900 - American Jewish History

3 Credit(s) Hours: *3 hrs.*

Study of Jews within the context of American History, with emphasis on the settlement of America as part of the Diasporic experience. The historical causes for the unique aspects of American Judaism, economic and geographical mobility, the Jewish labor movement, the radical intellectuals of the '30's, and contemporary issues.

Department: History, Philosophy and Political Science

History - World History

HIS 3100 - Europe: Napoleon to Hitler, 1789 to 1945

3 Credit(s) Hours: *3 hrs.*

A social, cultural, political, and economic approach to the development of European civilization from the French Revolution to the 20th century. Emphasis is on industrialism, nationalism, imperialism, world wars, and totalitarianism.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 3200 - Modern China

3 Credit(s) Hours: *3 hrs.*

The reshaping of China and its revolutionary role in the modern world.

Flexible Core: Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 3300 - Africa: Past and Present

3 Credit(s) Hours: *3 hrs.*

The historical development of Africa with emphasis on the cultural interchange, colonialism and the nationalist revolts, new governments and the problem of modernization, conflicts of interest of the great powers, and 20th century nationalistic rivalries.

Department: History, Philosophy and Political Science

HIS 3400 - Military History

3 Credit(s) Hours: *3 hrs.*

Study of modern military history, the strategic, tactical, and technological factors relating to warfare including: classic warfare, the age of limited war, modern nationalism and total war, and modern guerrilla and contemporary warfare.

Department: History, Philosophy and Political Science

HIS 3600 - Europe in the Twentieth Century

3 Credit(s) Hours: *3 hrs.*

The transformation of European society in the 20th century. The political, military, economic and cultural factors as well as the social and technological changes which gave the 20th century its unique character.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 3700 - The Middle East: World War I to the Present

3 Credit(s) Hours: *3 hrs.*

Analysis of the major political, social, religious, economic and cultural developments in the Near East: attempts of Islamic society to adjust to the Western way of life, the rise of nationalism, the emergence of the State of Israel and the role of oil in world diplomacy.

Flexible Core: Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 4200 - The Caribbean: 1492 to the Present

3 Credit(s) Hours: *3 hrs.*

Development of the Caribbean Islands from 1492 to the present, including pre-Columbian cultures, European colonization and rivalries, slavery, and the development of modern Caribbean culture.

Department: History, Philosophy and Political Science

HIS 4400 - The Nazi Holocaust

3 Credit(s) Hours: *3 hrs.*

The rise of Nazism and its legislative, political, and destructive machinery, the internal life of the Jew in the Ghettos and Concentration Camps, the Jewish Councils and Resistance movements, the attitude of the "Free World," the Allies, the Church, negotiations for rescue, the scope of the Final Solution, and the literature of the Holocaust.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 5100 - The Ancient World

3 Credit(s) Hours: *3 hrs.*

Origins of civilization and the emergence of the great cultures of the Near East. The religious, social, economic, and political ideas and institutions of Egypt, Mesopotamia, the Hebrews, Greece, and Rome, which shaped Western civilization.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 5200 - Europe in the Middle Ages: Politics, Culture and Society

3 Credit(s) Hours: *3 hrs.*

Study of ideas, institutions, and culture of European Civilization from Late Antiquity through the Middle Ages and Early Modern Period. Topics surveyed include the political and spiritual transformation of the Roman Empire, Medieval monarchy, religion, commerce, and everyday intellectual life, and the transition into the Early Modern period marked by the Renaissance, the Reformation, and commercial exploration

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 5300 - Russian History: 1860 to the Present

3 Credit(s) Hours: *3 hrs.*

Reform and revolution in Russia and the establishment of the Soviet regime, analysis and evaluation of the U.S.S.R. under its several leaders, the crises of Soviet society, the collapse of the Soviet Union and the aftermath.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

HIS 5700 - Latin American History

3 Credit(s) Hours: *3 hrs.*

The development of Latin America from colonial times to the present, the intermingling of cultures, ideas, and the formation of a Latin American civilization.

Department: History, Philosophy and Political Science

HIS 6300 - History of Religion

3 Credit(s) Hours: *3 hrs.*

A survey of the historical development of the major religions in world civilizations, the ancient religions of Mesopotamia, Egypt, Persia, classical Greece and Rome, Christianity and Islam, and the religious traditions of India, China and Japan.

Department: History, Philosophy and Political Science

HIS 6400 - Modern Jewish History

3 Credit(s) Hours: *3 hrs.*

History of the Jewish people from the mid-17th century to the present. Topics include: the Messianic and Hassidic movements, enlightenment, emancipation and assimilation, the rise of new religious forms, the great migrations, nationalism, anti-Semitism, the growth of Hebrew and Yiddish literature, the emergence of Zionism and the establishment of the State of Israel.

Department: History, Philosophy and Political Science

HIS 6500 - Introduction to Modern Ideologies

3 Credit(s) Hours: *3 hrs.*

Revolutions and vast social movements characterized the 20th century. These events involved a great conflict of ideologies or points of views about capitalism, individuality and the power of the state. We examine the central ideologies of fascism, Marxism, communism and liberalism. In doing so, we look at the history of important historical figures such as Lenin, Hitler, Mussolini and Stalin.

Department: History, Philosophy and Political Science

HIS 7000 - Historical Geography

3 Credit(s) Hours: *3 hrs.*

Geographic sources, their interpretation and evaluation and development of student's geographical sense to gain greater insight and understanding in learning history, or any other liberal arts discipline. A survey of the history, methodology and various theoretical approaches to geography, practical training in map-reading skills, interpretation and library organization and utilization.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

History - Non-Designated

For Independent Studies and Topical/Pilot courses, content will determine if the course is deemed as United States History or World History.

HIS 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of history is developed individually between student and faculty member and must be approved by the Department.

Department: History, Philosophy and Political Science

HIS 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: History, Philosophy and Political Science

Humanities

HUM 200 - Early Literacy and Children's Literature

2 Credit(s) Hours: *2 hours*

Children's literature and early literacy skills in the Early Childhood curriculum. Students will read, discuss and write about children's literature and its relationship to whole language and literacy.

Department: Behavioral Sciences

HUM 8181 - Development of Literacy in Children

1 Credit(s) Hours: *1 hr.*

Students explore aspects of literacy in children via the humanities and communication arts.

Department: Behavioral Sciences

Humanities: College Now

HUM 100 - Modern Humanities: Arts and Ideas

3 Credit(s) Hours: *3 hrs.*

Course explores literature, drama, art, and music in today's world. Attempts are made to place 20th century developments into a historical context and illustrate the continuity of culture.

Prerequisite(s): Enrollment in "College Now" Program

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

Italian

IT 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of Italian is developed individually between student and faculty member and must be approved by the Department.

Department: Communications and Performing Arts

IT 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

IT 100 - Elementary Italian I

3 Credit(s) Hours: *3 hrs.*

For students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis on correct pronunciation through intensive oral practice, use of the language laboratory and audio-visual materials, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

Not open to native speakers.

Flexible Core: Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

IT 200 - Elementary Italian II

3 Credit(s) Hours: *3 hrs.*

Further development of language skills, comprehension, speaking, reading and writing.

Prerequisite(s): IT 100 or acceptable Language Placement Examination score

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

IT 300 - Intermediate Italian I

3 Credit(s) Hours: 3 hrs.

Progressive development of language skills, based on foundations established in elementary Italian.

Grammar review supplemented by readings of modern Italian literature.

Prerequisite(s): IT 200 **or** acceptable Language Placement Examination score

Department: Communications and Performing Arts

IT 400 - Intermediate Italian II

3 Credit(s) Hours: 3 hrs.

Advanced grammar, composition and reading of modern Italian authors.

Prerequisite(s): IT 300 **or** acceptable Language Placement Examination score

Department: Communications and Performing Arts

IT 2200 - Italian Conversation

3 Credit(s) Hours: 3 hrs.

Practice in conversation on an elementary level. Emphasis on the vocabulary and idioms of everyday usage.

Prerequisite(s): IT 100 **or** equivalent

Department: Communications and Performing Arts

IT 3000 - Literature in Translation

3 Credit(s) Hours: 3 hrs.

For **non-Italian** speaking students. Course includes reading and analysis of representative works of Italian literature in their cultural and historical context.

Reading and discussion in English.

Prerequisite(s): ENG 1200

Department: Communications and Performing Arts

IT 7000 - Italian Cinema

3 Credit(s) Hours: 3 hrs.

History of Italian Cinema from the silent era and Fascist period to the present, with emphasis on postwar neorealism and the major directors of the sixties and seventies. Films in Italian with English subtitles.

Instruction is in English.

Prerequisite(s): ENG 1200

Department: Communications and Performing Arts

Journalism

JRL 3100 - Basic Journalism

3 Credit(s) Hours: *3 hrs.*

Introductory course on the history of journalism: writing leads, rewrites, reporting, hard news stories, covering beats, copy preparation, research, operation of a campus newspaper, and special interests.

Department: Communications and Performing Arts

JRL 3200 - Advanced Journalism

3 Credit(s) Hours: *3 hrs.*

Further study of newspaper techniques: advanced research, in-depth coverage, interviews, sidebars, profiles, basic reviews, writing styles, headlines and typefaces, copy reading and proofreading, editorials, freedom of the press, legalities.

Prerequisite(s): JRL 3100

Department: Communications and Performing Arts

JRL 4400 - Feature and Magazine Writing

3 Credit(s) Hours: *3 hrs.*

The techniques of writing feature news stories that require understanding basic news writing combined with the ability to utilize the creative approach contained in human interest stories.

Prerequisite(s): JRL 3100

Department: Communications and Performing Arts

Maritime Technology

MT 3000 - Introduction to Maritime Technology

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. laboratory)*

An introduction to seamanship, including Maritime career opportunities and required training, nautical terminology, boating laws and regulations and types of engines.

Prerequisite(s): Enrollment in the "College Now" Program

Department: Tourism and Hospitality

MT 3300 - Vessel Technology I

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. laboratory)*

Seamanship theory and fundamentals of vessel operations, including vessel handling, piloting, major phases of applied engineering technology, operating rigging and deck machinery. Extensive on-board training for operations in tight quarters and open sea. Consideration of Coast Guard procedures, towing, vessel stability and meteorology.

Prerequisite(s): Open only to Maritime Technology Majors.

Department: Tourism and Hospitality

MT 3400 - Vessel Technology II

3 Credit(s) Hours: *5 hrs.*

Practical experience aboard vessels engaged in party-and-charter-boat fishing, oceanographic survey work, vessel delivery and cruising. Day and overnight cruises aboard the R/V CUNY at Kingsborough vessel. Introduction to maritime industry opportunities.

Prerequisite(s): MT 3300

Department: Tourism and Hospitality

MT 4300 - Marina Operations

3 Credit(s) Hours: *4 hrs.*

Basic skills required to operate a full service marina or boatyard includes, dock and storage facilities, parts and service department, boat engine sales, ship's store, and business and marketing. Consideration of marina products in relation to operations and clientele.

Department: Tourism and Hospitality

MT 4600 - Coastal Piloting and Seamanship

4 Credit(s) Hours: *6 hrs.*

Introduction to nautical chart work, coastal piloting and the principles of general seamanship. Marine compass, nautical charts, piloting, tides and currents, position determination, navigational aids and electronic navigation are covered. Also included are the seamanship principles of life saving, firefighting, the Rules of the Road and marlinspike seamanship. Two hands-on cruises, Jamaica Bay and New York Harbor, are included.

Department: Tourism and Hospitality

MT 5000 - Introduction to Outboard Motors

2 Credit(s) Hours: *3 hrs. (1 hr. lecture, 2 hrs. laboratory)*

The principles of the internal combustion gasoline engine are covered. Included are the topics of construction, testing and maintenance of these engines as well as the methods of converting the generated energy into vessel propulsion. Propulsion topics primarily focus on outboards and out-drives.

Department: Tourism and Hospitality

MT 5100 - Introduction to Diesel Engines

2 Credit(s) Hours: *3 hrs. (1 hr. lecture, 2 hrs. laboratory)*

The principles of the diesel engine operation, construction, testing and maintenance are covered. Troubleshooting and the emergency repairs of these engines as well as the difference between two-cycle and four-cycle diesel are reviewed.

Department: Tourism and Hospitality

MT 5200 - Welding

2 Credit(s) Hours: 3 hrs. (1 hr. lecture, 2 hrs. laboratory)

This course covers the basic skills required for maintaining and repairing steel and aluminum vessels, also included is the fabrication of stainless steel items. Emphasis is placed on welding safety and making emergency repairs.

Department: Tourism and Hospitality

MT 5300 - Fiberglass, Refrigeration and Hydraulic Repairs

2 Credit(s) Hours: 3 hrs. (1 hr. lecture, 2 hrs. laboratory)

This course covers the basic skills required for maintaining and repairing fiberglass hulls. The basic principles of hydraulic and refrigeration systems and common ship board system designs are presented. Installation, application, operation, maintenance and troubleshooting of vessel hydraulic and refrigeration systems are covered.

Department: Tourism and Hospitality

MT 5400 - Low Voltage Electrical Systems

2 Credit(s) Hours: 3 hrs. (1 hr. lecture, 2 hrs. laboratory)

This course is designed to give the student the background necessary to be able to read and implement the directions common in most marine electronics manuals. The course focuses on series and parallel circuits, low voltage AC and DC systems, hull wiring, and the installation of common marine electronics including echo-sounders, chart plotters, RADAR, loran, GPS, VHF, and SSB radios.

Department: Tourism and Hospitality

MT 5500 - Marine Electronics

2 Credit(s) Hours: 3 hrs. (1 hr. lecture, 2 hrs. laboratory)

This course is designed to give the student the background necessary to be able to read and implement the directions common in most marine electronics users manuals as well as develop the skills necessary to properly operate representative models of the more common forms of marine electronics. Through lecture and lab work in the college's ship bridge simulator, the student will develop skills in radio telephones, RADAR, SONAR, GPS, and electronic chart plotters as well as LORAN-C. Utilizing the ship simulator, students will learn the proper radio protocol and procedures and how to send a distress signal.

Prerequisite(s): MT 4600

Department: Tourism and Hospitality

MT 5600 - Advanced Outboards

3 Credit(s) Hours: 4 hrs. (2 hrs. lecture, 2 hrs. laboratory)

Builds upon the theory and practical knowledge learned in *Introduction to Outboards*, as it applies to current outboard technology. Ignition systems, lower units/gear cases, and periodic maintenance are covered.

Prerequisite(s): MT 5000

Department: Tourism and Hospitality

MT 5700 - Vessel Systems, Theory, Maintenance and Troubleshooting

3 Credit(s) Hours: 4 hrs. (2 hrs. lecture, 2 hrs. laboratory)

Builds upon knowledge of the following systems: domestic water and sanitation plumbing, engine cooling systems, fuel systems tanks, delivery and external filtering systems, AC power generators and distribution, steering systems, and advanced data and power distribution networks, including NMEA 0183, NMEA 2000, and CAN Bus networks. Emphasis will be placed on troubleshooting and repair of each system. Students will use Microsoft Visio® software to document vessel systems for service purposes.

Prerequisite(s): MT 5300 and MT 5400

Department: Tourism and Hospitality

MT 5800 - Advanced Welding

2 Credit(s) Hours: 3 hrs. (1 hr. lecture, 2 hrs. laboratory)

Builds on the knowledge and skills acquired in the prerequisite Welding course. Two new processes will be covered: Tungsten Inert Gas welding (TIG) and Shielded Metal Arch Welding (SMAW). Emphasis is placed on safe and proper setup and operation of equipment.

Prerequisite(s): MT 5200

Department: Tourism and Hospitality

Mass Communications

MCB 81XX - Independent Study

1-3 Credit(s) Hours: 1-3 hrs.

Independent study of mass communications is developed individually between student and faculty member and must be approved by the Department.

Department: Communications and Performing Arts

MCB 92XX - Internship

3 Credit(s) Hours: 3 hrs.

Applied work/study at professional broadcasting organizations.

Department: Communications and Performing Arts

MCB 3900 - Radio Studio Operations

3 Credit(s) Hours: *3 hrs.*

Introduction to operational and technical aspects of broadcast audio equipment, and of the media. Various uses of all studio equipment.

Department: Communications and Performing Arts

MCB 4000 - Introduction to Pro Tools

3 Credit(s) Hours: *3 hrs.*

The essential Pro Tools principles from initial setup to final mix in both music and post scenarios offering hands-on practical experience on the most widely used audio production software in the industry. The course examines recording, editing, and mixing, covering a multitude of new functions and feature enhancements including introduction to Clip Gain, AudioSuite functionality, Real Time plugins, and MIDI, providing students with the foundation to explore career tracks in music, television, and motion picture sound editing and mixing.

Department: Communications and Performing Arts

MCB 4100 - Television Studio Production

3 Credit(s) Hours: *5 hrs. (1 hr. lecture, 4 hrs. lab)*

Students learn the major tools of television studio production and how to use production techniques effectively from preproduction to live-on-file productions. Students attain a high level of comprehension on various studio equipment, production concepts, and problem solving leading to advanced studio-based multi-camera short segment television productions.

Department: Communications and Performing Arts

MCB 4600 - Media Technology

3 Credit(s) Hours: *3 hrs.*

A survey course designed for non-engineers covering motion picture, television, and radio technology with an emphasis on professional industry trends and workflows by providing a guide to understanding the technical world of radio and television broadcast engineering covering standards, video servers, editing, electronic newsrooms, and more.

This is a required course for all Broadcast Majors.

Department: Communications and Performing Arts

MCB 4900 - Media Production and Editing

3 Credit(s) Hours: *5 hrs. (1 hr. lecture, 4 hrs. laboratory/week)*

Introduces remote, not studio, single and multiple camera production and editing. Students learn the principles of remote camera operation and post-production editing with an emphasis on electronic news gathering/electronic field productions. Students prepare their own news media packages.

Department: Communications and Performing Arts

MCB 5000 - Writing for the Electronic Media

3 Credit(s) Hours: *3 hrs.*

Introduction to the various types of writing used in the electronic media and research necessary for each: commercials, news, reports, promotional and programming material, public service announcements, industrial and educational programs.

Prerequisite(s): Passed, exempt, **or** completed developmental course work for the CUNY Assessment Tests in Reading and Writing

Department: Communications and Performing Arts

MCB 5100 - Advanced Media Production and Editing

3 Credit(s) Hours: *5 hrs. (1 hr. lecture, 4 hrs. laboratory/week)*

Advanced remote, not studio, single and multiple camera production and editing. Students build on introductory techniques and concepts and apply them to this course which emphasizes the television news magazine format. Students prepare their own advanced single and multiple camera news magazine media packages.

Prerequisite(s): MCB 4900

Department: Communications and Performing Arts

MCB 5200 - Video Editing with Media Composer

2 Credit(s) Hours: *3 hrs. (1 hr. lecture, 2 hrs. lab)*

This course is designed to get students up-and-running on the industry standard software used to edit movies, documentaries, and television shows by developing an understanding of the editing craft, the aesthetic, technical, and organizational skills required to take a project from start to finish.

Department: Communications and Performing Arts

MCF 4000 - Film: The Creative Medium

3 Credit(s) Hours: *3 hrs.*

To recognize the film medium as a creative art, students are introduced to the key elements of cinematic form: narrative, mise-en-scène, cinematography, editing, sound, and acting. Key concepts are illustrated through the viewing and analysis of select short and feature-length films.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

MCF 4300 - Film Genre

3 Credit(s) Hours: *3 hrs.*

The mass medium of film and its ability to reflect and influence a wide variety of sociological and psychological events and trends, as seen through a particular genre and analyzed in a study of selected films. The genre will change each semester (i.e., film noir, animation, and the documentary, western).

Flexible Core: Creative Expression (Group C)

Recommended: MCF 4000

Department: Communications and Performing Arts

MCF 4400 - Film and Society

3 Credit(s) Hours: *3 hrs.*

A view of the motion picture industry's depiction of and/or commentary upon various social issues. Topics may include women, politics, war and minorities.

Flexible Core: Individual and Society (Group D)

Department: Communications and Performing Arts

MCM 3000 - Mass Media

3 Credit(s) Hours: *3 hrs.*

Analysis of mass media to discover the way information is perceived and influences behavior. Extensive use is made of film and video resources to examine the message systems employed by individuals, groups, institutions and politics. Focus is on books, news radio, film, television, advertising and social media.

Flexible Core: Individual and Society (Group D)

Department: Communications and Performing Arts

Mass Communications: College Now

COM 1100 - Mass Communications

3 Credit(s) Hours: *3 hrs.*

The study of mass communications and their effects on society and interpersonal communication through both historical and contemporary views. Communications systems, including print, film, and electronic media, will be considered with an emphasis on relevant speaking skills.

Prerequisite(s): Enrollment in the "College Now" Program

Department: Communications and Performing Arts

Mathematics - Corequisite Courses

MAT 9B0 - College Algebra for STEM Majors

3 Credit(s) Hours: *6 hrs. laboratory*

A comprehensive treatment of the following: real numbers, absolute value, integer and rational exponents, polynomial operations, factoring techniques, roots and radicals, linear and quadratic equations, graphing techniques, systems of linear equations, Gaussian elimination. Introduces the study of functions in preparation for the study of calculus and pre-calculus.

Students who have completed MAT 900 or MAT 9010 will not receive credit for this course.

This course is recommended for STEM majors. Nursing students should consult their academic advisor.

Prerequisite(s): (1) Successful completion of CUNY Mathematics remediation; **or** (2) Math Proficient per CUNY Guidelines

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

MAT 20B0 - Statistics with Algebra

3 Credit(s) Hours: *6 hrs. laboratory*

Introduction to statistics, with integrated algebra. Students will apply algebraic techniques and mathematical models to solve verbal problems. Statistical data are interpreted and analyzed. Students will demonstrate ability to communicate quantitative analysis and evaluate solutions. Statistics topics are descriptive measures, probability theory, the normal distribution, hypothesis testing, and regression analysis. This course is intended for students who want a first course in statistics and need strengthening in intermediate algebra.

Students who have completed MAT 19A0 or MAT 2000 or MAT 2010 or MAT 2200 /BA 2200 or MAT 9100 /BIO 9100 will not receive credit for this course *(Added to Catalog for Spring 2024)*

Prerequisite(s): (1) Successful completion of the CUNY Mathematics remediation; or (2) Math Proficiency per CUNY Guidelines

Required Core: Mathematical and Quantitative Reasoning

Department: Mathematics and Computer Science

MAT 500 - Introduction to Mathematical Thought

3 Credit(s) + 4 Equated Credit(s) Hours: *7 hrs.*

This course emphasizes quantitative reasoning skills for informed citizens to understand the world around them. Topics include basic probability, data analysis, solution of elementary Algebraic equations, word problems and modeling data.

Students who have completed MAT 4A0 Mathematical and Quantitative Reasoning will not receive credit for this course. This course is intended for Non-STEM majors. This course is NOT intended for students planning on taking MAT 900 - College Algebra

Prerequisite(s): For students who are eligible for a corequisite course per CUNY Math placement guidelines and are in need of developmental support.

Required Core: Mathematical and Quantitative Reasoning

Department: Mathematics and Computer Science

MAT 2010 - Statistics with Elementary Algebra

3 Credit(s) Hours: *6 hrs. laboratory*

Introduction to statistics, with integrated pre-algebra and algebra. Main statistics topics are descriptive measures, probability theory, the normal distribution, hypothesis testing, and regression analysis. This course is intended for students who have not achieved CUNY mathematics proficiency, and who want a first course in statistics.

Students who have taken MAT 19A0 or MAT 2000 or MAT 20B0 or MAT 2200 or BA 2200 or MAT 9100 or BIO 9100 will not receive credit for this course.

Prerequisite(s): For students who are eligible for a corequisite course per CUNY Math placement guidelines and are in need of developmental support.

Required Core: Mathematical and Quantitative Reasoning

Department: Mathematics and Computer Science

MAT 9010 - Introduction to Mathematics with College Algebra

3 Credit(s) Hours: *6 hrs. laboratory*

This course is designed to provide students with an understanding of algebraic concepts, and skill and practice in the manipulation and utilization of these concepts. Such a background is essential for later mastery of a wide variety of courses in mathematics, computer studies, the sciences, and other areas. Topics include real numbers, absolute value, integer and rational exponents, polynomial operations, factoring techniques, roots and radicals, linear and quadratic equations, graphing techniques, systems of linear equations, Gaussian elimination, and an introduction to the study of functions.

Students who have taken MAT 900 or MAT 9B0 will not receive credit for this course.

This course is recommended for STEM majors. Nursing Students should consult their academic advisor.

Prerequisite(s): For students who are eligible for a corequisite course per CUNY Math placement guidelines and are in need of developmental support.

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

Mathematics

MAT 4A0 - Mathematical and Quantitative Reasoning

3 Credit(s) Hours: *3 hrs.*

This course enhances students' quantitative reasoning and mathematical skills useful in solving problems in mathematics and in other fields of study. Students learn to communicate solutions to mathematical problems in written and oral form. Topics include mathematical modeling, financial mathematics, units, percentages and statistical reasoning. **Students who have completed MAT 500 will not receive credit for this course. This course is intended for Non-STEM majors. This course is NOT intended for students planning on taking MAT 900 College Algebra**

Prerequisite(s): (1) Successful completion of CUNY Mathematics remediation; **or** (2) Math Proficiency per CUNY guidelines.

Required Core: Mathematical and Quantitative Reasoning

Department: Mathematics and Computer Science

MAT 19A0 - Statistics and Probability in Today's World

3 Credit(s) Hours: *3 hrs.*

Concepts of statistics and probability, their application to today's world and the ethical use of data to analyze problems and questions. Topics include tabulation and graphing of distributions, central and dispersal tendencies, comparison techniques, correlations and predictive techniques. Instruction and practice in the use of statistical calculators.

Students who have completed MAT 2000 or BA 2200/MAT 2200 or MAT 9100/BIO 9100 will not receive credit for this course.

Prerequisite(s): MAT R300 or MAT 9B0

Department: Mathematics and Computer Science

MAT 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of mathematics is developed individually between student and faculty member and must be approved by the Department.

Department: Mathematics and Computer Science

MAT 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Mathematics and Computer Science

MAT 700 - Principles of Mathematics

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

A basic course in mathematical discovery. Students participate in the development and investigation of topics such as number sequences, calculating devices, extrapolation, mathematical mosaics and curves, probability and topology.

Students who have completed MAT 9B0 will not receive credit for this course.

Prerequisite(s): (1) Successful completion of CUNY Mathematics remediation; **or** (2) Math Proficiency per CUNY guidelines.

Required Core: Mathematical and Quantitative Reasoning

Department: Mathematics and Computer Science

MAT 800 - Practical Mathematics for Today's World

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Critical-thinking and mathematical skills useful in making informed decisions on many aspects of modern life involving quantitative concepts. Topics include logical analysis and inference, mathematics of finance, statistical reasoning and probability.

Prerequisite(s): (1) Successful completion of CUNY Mathematics remediation; or (2) Mathematics Proficiency per CUNY guidelines.

Required Core: Required Core: Mathematical and Quantitative Reasoning

Department: Mathematics and Computer Science

MAT 900 - College Algebra

3 Credit(s) Hours: *4 hrs.*

A comprehensive treatment of the following: real numbers, absolute value, integer and rational exponents, polynomial operations, factoring techniques, roots and radicals, linear and quadratic equations, graphing techniques, systems of linear equations, and Gaussian elimination. Introduces the study of functions in preparation for the study of pre-calculus. Demonstration of proficiency in subject matter via departmental final exam is required for successful completion.

Students who have completed MAT 9010 or MAT 9B0 will not receive credit for this course.

This course is recommended for STEM majors. Nursing students should consult their academic advisor.

Prerequisite(s): (1) MAT R300 or (2) CUNY Proficiency **AND** ACCUPLACER (QAS) placement of MAT 900

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

MAT 1000 - College Trigonometry

3 Credit(s) Hours: *3 hrs.*

Functions, graphing techniques, angle measurement, functions of right angles, linear interpolation, inverse functions, laws of Sine's and Cosines, circular functions, formulas, identities, waves and conditional equations.

Prerequisite(s): MAT 9010 or MAT 9B0 or MAT 900

Department: Mathematics and Computer Science

MAT 1100 - Finite Mathematics

4 Credit(s) Hours: *4 hrs.*

Analysis of polls, linear programming by graph, introduction to probability, games and game theory, Markov chains, growth and decay problems, savings plans, annuities, amortization and other problems in the mathematics of management, such as PERT, simulation and forecasting. Calculators and/or minicomputers are used to do calculations. Designed as an elective for liberal arts or business students interested in some practical problems solved by mathematics.

Prerequisite(s): MAT 9B0 or MAT 900

Department: Mathematics and Computer Science

MAT 1200 - Concepts of Modern Mathematics

4 Credit(s) Hours: *4 hrs.*

Introduction to the spirit of mathematical investigation and mathematical logic including: the prime numbers, the Fundamental Theorem of Arithmetic, the rational and irrational numbers, tiling, congruence and number bases.

Prerequisite(s): MAT 900

Department: Mathematics and Computer Science

MAT 1300 - Survey of Mathematics and Computer Concepts

4 Credit(s) Hours: *4 hrs.*

To introduce A.A. and A.A.S. students to several branches of mathematics, topics include: probability and statistics, computer programming, logic, the real number system, and linear programming.

Prerequisite(s): MAT R300 or MAT 9010 or MAT 9B0 or MAT 900

Department: Mathematics and Computer Science

MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

This pre-calculus course stresses real numbers, open sentences, functions and relations, and serves as an introduction to analytic geometry and to probability. Recommended for students planning to continue with calculus and/or mathematics electives.

Prerequisite(s): MAT 9010 or MAT 9B0 or MAT 900 with a grade of "C" or higher

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

MAT 1500 - Calculus I

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

The first part of a three-semester integrated course in the elements of coordinate geometry, differential and integral calculus, with applications. Algebraic functions of a single variable, the derivative, differentiation formulas, and application to geometry, physics and maximization.

Prerequisite(s): MAT 1400 with a grade of "C" or higher **and** MAT 1000

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

MAT 1600 - Calculus II

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Continuation of MAT 1500, the course focuses on integration of functions of one variable with applications. Topics include: techniques of integration, finding areas, volumes and arc length, improper integrals, sequences, series, Maclaurin and Taylor series.

Prerequisite(s): Grade of "C+" or better in MAT 1500

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

MAT 2000 - Elements of Statistics

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Introduction to probability and statistics including: tabulation and graphing of distributions, central and dispersion tendencies, comparison techniques, correlations and predictive techniques. Recommended for students planning careers in economics, education, psychology, sociology, computer information systems, occupational therapy and physician assistant.

Students who have completed MAT 19A0 or MAT 2010 or MAT 20B0 or MAT 2200/BA 2200 or MAT 9100/BIO 9100 will not receive credit for this course.

Students who do not meet the prerequisites should enroll in MAT 2010

Prerequisite(s): (1) MAT R300 or (2) MAT 9B0 or (3) MAT 9010 or (4) CUNY

Proficiency **AND** ACCUPLACER (QAS) placement of MAT 900

Required Core: Mathematical and Quantitative Reasoning

Department: Mathematics and Computer Science

MAT 2100 - Calculus III

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Continuation of MAT 1600 with emphasis on partial differentiation, polar coordinates, multiple integration, solid geometry, vectors, and hyperbolic functions.

Prerequisite(s): MAT 1600 with a grade of "C" or better

Department: Mathematics and Computer Science

MAT 2200 - Business Statistics

4 Credit(s) Hours: *4 hrs.*

Cross-Listed With: BA 2200

An introduction to probability and statistics as they apply to business applications including data summary measures, discrete random variables and probability distributions, sampling methodologies and analysis, hypothesis testing and regression analysis. Special emphasis will be given to solutions of practical business problems.

Students who have completed MAT 19A0 or MAT 2010 or MAT 2000 or MAT 9100/BIO 9100 will not receive credit for this course.

Prerequisite(s): MAT R300 or MAT 9010 or MAT 9B0 or MAT 900 with a grade of "C" or higher

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

MAT 2500 - College Geometry

4 Credit(s) Hours: *4 hrs.*

Geometry is presented as a branch of contemporary mathematics involving the interrelated study of Euclidean plane and solid geometry with an introduction to non-Euclidean geometrical systems.

Prerequisite(s): MAT 900

Department: Mathematics and Computer Science

MAT 3000 - Introduction to Mathematical Concepts in Proof

1 Credit(s) Hours: *2 hrs. (2 hrs. lab)*

This course introduces majors in mathematics to the critical skill of reading and writing formal proofs; and serves as a bridge to the more advanced mathematics they will study at the baccalaureate level and beyond. Expected topics include: basic set theory, logic counting principles, direct proof, contrapositives, contradictions, non-conditionals, counter examples, induction, relations, functions, and cardinality.

Prerequisite(s): MAT 1400

Department: Mathematics and Computer Science

MAT 3200 - Introduction to Set Theory

4 Credit(s) Hours: *4 hrs.*

The course covers the discovery of basic properties of infinite sets and the historical development of Set Theory as the foundation of mathematics. Topics will include the foundational role of sets in mathematics, well-orderings, ordinals, cardinals, power sets and Cantor's theorem, Continuum Hypothesis, early set theoretic paradoxes, the Zermelo-Fraenkel axioms, Axiom of Choice, Von-Neumann's cumulative hierarchy of sets, and Gödel's first Incompleteness Theorem.

Prerequisite(s): MAT 1400 with a grade of "C" or better

Department: Mathematics and Computer Science

MAT 5500 - Differential Equations

3 Credit(s) Hours: *4 hrs.*

The solution of ordinary linear differential equations, operational techniques, solution by series, numerical solutions, Laplace transforms, and applications in engineering and the sciences.

Prerequisite(s): MAT 1600 with a grade of "C" or better

Department: Mathematics and Computer Science

MAT 5600 - Linear Algebra

3 Credit(s) Hours: *4 hrs.*

Study of vector spaces, matrix algebra transformation, and vector analysis.

Prerequisite(s): MAT 1500 with a grade of "C+" or better

Department: Mathematics and Computer Science

MAT 7100 - Applications of Linear Algebra and Vector Analysis

4 Credit(s) Hours: *4 hrs.*

The course presents the theory of linear systems and vector analysis and their applications through two mutually reinforcing components. The first is modeling, the derivation of governing equations from physical principles. The second is solution techniques and algorithms for solving such equations. The course will illustrate and explain basic techniques - including dynamical systems modeled by linear differential equations, image processing, boundary value problems, and solution techniques such as Fourier Transform and Laplace Transform - that are used in *real-world* problems of the type encountered in applied mathematics, engineering, and science. The course will also explain how these mathematical techniques are derived from basic mathematical principles.

Prerequisite(s): MAT 5600

Department: Mathematics and Computer Science

MAT 9100 - Biostatistics

4 Credit(s) Hours: 4 hrs.

Cross-Listed With: BIO 9100

An introduction to the theories and techniques relating to probability, statistics and data analysis as pertaining to biology. Discrete and continuous probability distributions are studied including binomial, normal and t-distributions. Classical and Bayesian statistics, estimation, hypothesis testing will be emphasized. SPSS software will be introduced and used in the laboratory achievements.

Students who have completed MAT 19A0 or MAT 2010 or MAT 2000 or MAT 2200 /BA 2200 will not receive credit for this course.

Prerequisite(s): MAT 9010 or MAT 9B0 or MAT 900

Required Core: Mathematical and Quantitative Reasoning

Flexible Core: Scientific World (Group E)

Department: Mathematics and Computer Science

Developmental/Equated Credit Mathematics

MAT M100 - Pre-Algebra

0 Credit(s) 4 Equated Credit(s) Hours: 4 hrs.

Arithmetic stressing quantification and manipulative skills and applications for students who are deficient in that subject. Required of all students who fail the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math. *Demonstration of proficiency in subject matter via exit exam is required for successful course completion.*

Students may not repeat MAT M100 after receiving two (2) "R" grades. Developmental Course

Prerequisite(s): Score of 20 to 39 on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math and either a passing score on the CUNY Assessment Test in Reading **or** demonstration of reading proficiency **or**

Corequisite(s): ENG 92A6

Department: Mathematics and Computer Science

MAT M200 - Elementary Algebra

0 Credit(s) 4 Equated Credit(s) Hours: 4 hrs.

Coverage of fundamental topics in elementary algebra for students who fail the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math.

Students may not repeat M200 after receiving two (2) "R" grades. Developmental Course

Prerequisite(s): (1) Score of 40 to 56 on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math **or** (2) passing score in MAT M100, **or** (3) passing score in MAT X100, **or** (4) successful completion of a Kingsborough math workshop culminating in passing the Mathematics Department Pre-Algebra exam

Department: Mathematics and Computer Science

MAT R300 - Elementary Algebra II

0 Credit(s) 4 Equated Credit(s) Hours: *4 hrs.*

Topics in elementary algebra. This course is designed for students who have not achieved the elementary algebra proficiency level required for MAT 900, MAT 1300, MAT 2000, MAT 19A0, and MAT 2200/BA 2200.

Demonstration of proficiency in subject matter via Department final exam is required for successful course completion. Developmental Course

Prerequisite(s): (1) Successful completion of CUNY Mathematics remediation; **or** (2) Math Proficiency per CUNY guidelines.

Department: Mathematics and Computer Science

MAT X100 - Pre-Algebra

0 Credit(s) 1 Equated Credit(s) Hours: *10 hrs.*

An express course offered to students who achieve the non-passing score of 31 to 39 on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math

Demonstration of proficiency in subject matter via exit exam is required for successful course completion. Developmental Course

Prerequisite(s): Score of 31 – 39 on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math **and** either a passing score on the CUNY Assessment Test in Reading **or** demonstration of reading proficiency

Department: Mathematics and Computer Science

MAT X200 - Elementary Algebra

0 Credit(s) 1 Equated Credit(s) Hours: *10 hrs.*

An express course offered to students who achieve the non-passing score of 50 to 56 on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math.

Developmental Course

Prerequisite(s): Score of 50 – 56 on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math

Department: Mathematics and Computer Science

Mathematics - College Now

MAT 1CN - Introduction to Algebra

0 Credit(s) Hours: *4 hrs.*

Designed to help students pass the Mathematics A High School Regents Exam. Topics include: number concepts, algebraic reasoning, introductory geometry, the coordinate plane and probability.

Prerequisite(s): Students that the high school identifies as being in need of extra assistance in order to pass the Mathematics A Regents Exam on the first try **or** students who have taken and failed the Mathematics A Regents Exam **and** enrollment in the "College Now" Program

Department: Mathematics and Computer Science

MAT 3CN - Intermediate Algebra

0 Credit(s) Hours: *4 hrs.*

Designed to help students pass the Mathematics B High School Regents Exam. Inequalities, rational expressions, exponents, quadratic equations, radicals, complex numbers, functions, logarithms and exponential functions.

Prerequisite(s): Students that the high school identifies as being in need of extra assistance in order to pass the Mathematics B Regents Exam on the first try **or** students who have taken and failed the Mathematics B Regents Exam **and** enrollment in the "College Now" Program

Department: Mathematics and Computer Science

Mental Health and Human Services

MH 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Conflict and conflict resolution are present in every human endeavor. This independent study is designed to explore various aspects of conflict resolution as it relates to our contemporary mental health and human services system in the United States. Specific areas of research will be developed individually between the student and faculty member and must be approved by the Department.

Department: Allied Health, Mental Health and Human Services

MH 1100 - Introduction to Human Services

3 Credit(s) Hours: *3 hrs.*

Introduction to the nature and scope of human services in America today. A variety of human services, settings and programs, career options, including occupational therapy, social work, psychology, art and dance therapy, counseling, mental health and gerontology will be described. Prevention efforts, the effect of social policies on provision of needed services, the development of the human services movement will be examined in the light of changing societal values.

Open to all students.

Department: Allied Health, Mental Health and Human Services

MH 3000 - Human Services Organization

3 Credit(s) Hours: *3 hrs.*

Development, functions, and purposes of human services organizations. Types of human services organizations are described with emphasis on the duties and roles of workers and supervisors and the effects of policies, practices, and pressures of the agency upon the worker.

Department: Allied Health, Mental Health and Human Services

MH 3100 - Principles of Interviewing and Group Leadership

3 Credit(s) Hours: *3 hrs.*

Basic principles of gathering information through the use of interviewing techniques. The nature of group formation, function and leadership, and how they relate to one another. Emphasis is on providing preventative and therapeutic service to the mentally ill with role playing and classroom practice sessions.

Open to Program Majors only.

Prerequisite(s): MH 1100

Department: Allied Health, Mental Health and Human Services

MH 3400 - Mental Health Practice with Vulnerable Populations

3 Credit(s) Hours: *3 hrs.*

Course will examine difficulties faced by a variety of special populations including adults with HIV, chronic mental illness and adolescents and children at-risk. Students will gain an overview of each population's unique service needs and learn consumer-centered intervention strategies.

Open to Program Majors only.

Prerequisite(s): MH 1100

Department: Allied Health, Mental Health and Human Services

MH 3500 - Introduction to Gerontology

3 Credit(s) Hours: *4 hrs.*

Issues and problems pertaining to aging and the aged, the aging process and the roles of older adults in society. Emphasis is on learning methods for the prevention and treatment of mental illness in older people.

Open to all students.

Department: Allied Health, Mental Health and Human Services

MH 3700 - Introduction to Domestic Violence Counseling

3 Credit(s) Hours: *3 hrs.*

An overview of the definitions, causes and theoretical paradigms of domestic violence. Focus is primarily on violence perpetrated by spouses and intimate partners, as dating violence and elder abuse, the dynamics of abusive relationships, the response modalities and an introduction to strategies of advocacy and the legal system.

Department: Allied Health, Mental Health and Human Services

MH 3800 - Assessment and Intervention Modalities with Domestic Violence Survivors

3 Credit(s) Hours: *3 hrs.*

Assessment and evaluation techniques of domestic violence survivors: adult victims, children and batterers. Learning to identify those at risk and treatment planning, and professional ethics and multicultural approaches are covered.

Prerequisite(s): MH 3700

Department: Allied Health, Mental Health and Human Services

MH 9801 - Supervised Instructional Experience in Mental Health I

3 Credit(s) Hours: *6 hrs.*

Students, under faculty supervision are assigned to work in a social service agency or a community advocacy internship.

Prerequisite(s): MH 1100, MH 3500 **and** either MH 3100 or MH 3400 **or** MH 3700 **or** Department permission required

Department: Allied Health, Mental Health and Human Services

MH 9802 - Supervised Instructional Experience in Mental Health II

3 Credit(s) Hours: *6 hrs.*

Students, under faculty supervision, are assigned to work in a social service agency or a community advocacy internship.

Prerequisite(s): MH 9801, MH 3000 **and** either MH 3100 or MH 3400 **or** MH 3800 **or** Department permission required

Department: Allied Health, Mental Health and Human Services

Music

MUS 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of music is developed individually between student and faculty member and must be approved by the Department.

Department: Communications and Performing Arts

MUS 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

MUS 2100 - Introduction to Jazz

3 Credit(s) Hours: *3 hrs.*

Historical approach to the jazz idiom through readings and guided listening. Topics include: the roots of jazz music, New Orleans jazz, Chicago style, Kansas City style, swing, bebop, new wave, and progressive jazz.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

MUS 2200 - Music of the 20th Century

3 Credit(s) Hours: *3 hrs.*

Introduction to the varied sounds of 20th century music. Emphasis on major musical achievements of the century by European and American composers, including Stravinsky, Bartok, Schonberg, Gershwin, Bernstein, Copland and Cage.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

MUS 2400 - Opera

3 Credit(s) Hours: *3 hrs.*

Development of Opera, its sociological and political aspects, and its rich and varied literature in the Baroque, Classic, Romantic, and Modern Eras. Renowned operatic masterworks included.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

MUS 2700 - Music in World Cultures

3 Credit(s) Hours: *3 hrs.*

A listening survey of various folk and ethnic music forms performed and practiced worldwide by various social groups. Songs and dances associated with love, war, and rites of passage, evocative forms, drumming, chanting, instruments and languages as related to the musical forms, social, geographic, historical elements and their musical relevance.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

MUS 3000 - Introduction to Music Theory

3 Credit(s) Hours: *3 hrs.*

A first course in music theory for students with no previous musical training, but an interest in acquiring basic skills in music reading, writing, and performance. Topics include: note reading and writing in treble and bass clef, major and minor scales, intervals and chords. F

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

MUS 3100 - Introduction to Music

3 Credit(s) Hours: 3 hrs.

Through this survey course in Western Music History, students will explore the evolution and history of music, ranging from the Medieval Period to the twenty-first century, through the study and analysis of musical works written by European and American composers. Students will listen to and analyze various art music genres including instrumental solo music, chamber and orchestral music, as well as vocal genres in order to examine the evolution of form, compositional techniques, and instruments that have occurred throughout the past one thousand years in Western Music. Further, students will engage in the critical listening of a variety of musical works from these time periods in order to assess elements such as texture, timbre and melody structure.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

Nursing

NUR 1000 - LPN to RN Bridge Course

3 Credit(s) Hours: 5 hrs. (1 hr. lecture, 4 hrs. lab)

This course provides a bridge for Licensed Practical Nurses (LPNs) pursuing their RN licensure. Course content will include medical surgical nursing, pharmacology, and nutrition nursing concepts. The nursing process and informed decision-making are emphasized. Students will develop appropriate plans of care and emphasis will be placed on formulating expected outcomes.

Prerequisite(s): Acceptance into LRN Program (including LPN Licensure) **and** ENG 1200, PSY 1100, BIO 1100, and SCI 2500

Prerequisite(s)/Corequisite(s): BIO 1200

Department: Nursing

NUR 1700 - Calculations for Medication Administration

1 Credit(s) Hours: 2 hrs.

The course introduces beginning level students to acquire knowledge and develop proficiency for accurately computing medication dosages for various methods of administration to patients across the lifespan. Topics include systems of measurement, equivalents and conversions, selected abbreviations and computation of medication dosages. Content will be reinforced and tested in subsequent nursing courses. It is essential for students to engage in additional practice in order to develop proficiency. Provisions are available for additional time and tutorial assistance in the college laboratory. Classroom instruction will be held weekly throughout the semester.

Prerequisite(s): Passing score on the ACCUPLACER CUNY Assessment Test in Math **or** completion of developmental mathematics

Prerequisite(s)/Corequisite(s): NUR 1800 **or** the equivalent

Department: Nursing

NUR 1800 - Fundamentals of Nursing

7 Credit(s) Hours: *13 hrs.*

Beginning level clinical nursing students are introduced to basic nursing knowledge and skills including dependent, independent and interdependent functions of the nurse. This course is designed to introduce the beginning student to the following concepts: Quality and Safety for Nurses (QSEN) Initiative incorporating patient centered care, teamwork and collaboration, evidenced based practice, safety, quality improvement and informatics, the nursing process, and the Categories of Client Needs.

Classroom instruction and laboratory sessions, at the college and in selected health agencies, are held weekly throughout the semester. During the college laboratory, concepts and principles discussed in previous classes are used as the basis for performing therapeutic nursing interventions. The health agency/clinical simulation experiences are utilized to enhance learning. Each clinical experience is preceded and followed by a conference where the expected student learning outcomes are discussed and evaluated. Individual and group assignments are utilized for laboratory experiences. Class work for the typical week consists of: four (4) classroom instruction, two (2) hours college laboratory and seven (7) hours health agency/clinical simulation experiences. It is mandatory for students to engage in additional practice for the development of skills. Provisions are available for additional time in the college laboratory for practice.

Prerequisite(s): BIO 1100, PSY 1100, SCI 2500 and ENG 1200 or ENG 2400 if exempt from ENG 1200

Prerequisite(s)/Corequisite(s): NUR 1700 and BIO 1200

Department: Nursing

NUR 1900 - Family Centered Maternity Nursing

4 Credit(s) Hours: *14 hrs. One-half semester*

This course presents facts, principles and concepts relevant to the care of individuals and families during the reproductive years of the life cycle and introduces the student to family-centered maternity nursing. Recognizing the impact of pregnancy on the individual and family, the student develops an awareness of the physiological and psychosocial needs of the patient that may occur during the childbearing years. This is addressed through Quality and Safety for Nurses (QSEN) Initiative incorporating the concepts of patient centered care, teamwork and collaboration, evidence-based practice, safety, quality improvement and informatics, the nursing process, and the Categories of Client Needs.

Classroom instruction and laboratory sessions, at the college and in selected health agencies, are held weekly throughout the semester. Classwork for the typical week will consist of: five (5) hours of classroom instruction, one (1) hour college laboratory/simulation, and eight (8) hours health agency experience. It is essential for students to engage in additional practice for the maintenance of skills. Provisions are available for additional time in the college laboratory for practice.

Prerequisite(s): NUR 2000 and NUR 2200

Prerequisite(s)/Corequisite(s): SOC 3100 and ENG 2400

Department: Nursing

NUR 2000 - Nursing the Emotionally Ill

4 Credit(s) Hours: *14 hrs. One-half semester*

This course focuses on Nursing care of emotionally ill patients who are experiencing difficulty meeting psychosocial needs. It also focuses on how emotional illness affects the needs of the individual and family in their efforts to adapt to stressors. The physiological and psychological needs of the patient are addressed through Quality and Safety for Nurses (QSEN) Initiative incorporating the concepts of patient-centered care, teamwork and collaboration, evidence-based practice, safety, quality improvement and informatics, the nursing process, and the Categories of Client Needs. Students are also introduced to the principles of management of patient groups. Class work for a typical week consists of: five (5) hours of classroom instruction, one (1) hour weekly college laboratory, and eight (8) hours of health agency/clinical simulation experiences. It is essential for students to engage in additional practice for further development of skills. Provisions are available for additional time in the college laboratory for practice.

Prerequisite(s): NUR 2100

Prerequisite(s)/Corequisite(s): PSY 3200

Recommended: SOC 3100 and ENG 2400

Department: Nursing

NUR 2100 - Nursing the Ill Adult I

9 Credit(s) Hours: *16 hrs.*

Nursing the adult patient with common recurring health problems includes nursing interventions based on physiological and psychological needs of adult patients. This course introduces the students to the nursing care of the adult patient who has common recurring health problems. The physiological and psychological needs of the adult patient are addressed through Quality and Safety for Nurses (QSEN) Initiative incorporating the concepts of patient centered care, teamwork and collaboration, evidence based practice, safety, quality improvement and informatics, the nursing process, and the Categories of Client Needs.

Classroom instruction and laboratory sessions, at the college and in selected health agencies, are held weekly throughout the semester. Learning is enhanced through clinical skills development performed weekly in the college laboratory. Class work for typical week consists of: five (5) hours of classroom instruction, three (3) hours of college laboratory, and eight (8) hours of health agency/clinical simulation experiences. Laboratory sessions are on campus and in hospitals or other health agencies. It is essential for students to engage in additional practice for further development of skills. Provisions are available for additional time in the college laboratory for practice.

Prerequisite(s): NUR 1700 and NUR 1800

Prerequisite(s)/Corequisite(s): BIO 5100 (Students cannot continue in NUR 2100 if they withdraw from BIO 5100)

Department: Nursing

NUR 2200 - Nursing the Ill Adult II

5 Credit(s) Hours: *17 hrs. One-half semester*

Nursing of the adult patient with common recurring health alterations includes advanced nursing interventions based on physiological and psychological needs of adult patients. This course builds on concepts of commonly recurring health alterations presented in Nursing the Ill Adult I (NUR 21). The physiological and psychological needs of the adult patient are addressed through Quality and Safety for Nurses (QSEN) Initiative incorporating the concepts of patient centered care, teamwork and collaboration, evidence based practice, safety, quality improvement and informatics, the nursing process, and the Categories of Client Needs. The principles of priority setting, leadership and delegation are incorporated throughout the course.

Class work for typical week consists of: six (6) hours of classroom instruction, three (3) hours of college laboratory/simulation, and eight (8) hours of health agency experiences. Laboratory sessions are on campus and in hospitals or other health agencies. It is essential for students to engage in additional practice for further development of skills. Provisions are available for additional time in the college laboratory for practice.

Prerequisite(s): NUR 2100

Prerequisite(s)/Corequisite(s): PSY 3200

Recommended: SOC 3100 and ENG 2400

Department: Nursing

NUR 2300 - Nursing of Children

5 Credit(s) Hours: *17 hrs. One-half semester*

This course introduces the students to nursing care of children, from infancy through adolescence, and their families. The students will develop an awareness of the physiological and psychosocial needs of children. The needs of the children are addressed through Quality and Safety for Nurses (QSEN) Initiative incorporating the concepts of patient centered care, teamwork and collaboration, evidence based practice, safety, quality improvement and informatics, the nursing process, and the Categories of Client Needs.

Learning experiences will include health care maintenance of children as well as concepts relevant to hospitalized children. Class work for typical week consists of: six (6) hours of classroom instruction, three (3) hours of college laboratory/simulation, and eight (8) hours of health agency experiences. Laboratory sessions are on campus and in hospitals or other health agencies. It is essential for students to engage in additional practice for further development of skills. Provisions are available for additional time in the college laboratory for practice.

Prerequisite(s): NUR 2000 and NUR 2200

Prerequisite(s)/Corequisite(s): SOC 3100 and ENG 2400

Department: Nursing

NUR 2400 - Issues in Nursing

1 Credit(s) Hours: *1 hr.*

This course is a survey of issues/transitions faced by the beginning Associate Degree Nurse as an individual and as a member of the nursing profession. The history of nursing, the role and responsibilities of the nurse, legal aspects of practice and issues and current trends in nursing are discussed. Instruction may be in the classroom, online, or both (hybrid).

Prerequisite(s): NUR 2000 and NUR 2200

Prerequisite(s)/Corequisite(s): NUR 1900, NUR 2300, SOC 3100, and ENG 2400

Department: Nursing

Nursing Electives

NUR 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Nursing

NUR 2700 - Pathophysiology

3 Credit(s) Hours: *3 hrs.*

Physiologic and pathophysiologic mechanisms that act singly or in concert to produce alterations on a cellular, tissue, organ, system level as well as on the total human organism. Emphasis is placed on underlying concepts that create recurrent patterns of cellular dysfunction and progression to alterations in system function and interweaves development across the lifespan with disease processes.

Prerequisite(s)/Corequisite(s): BIO 1200, SCI 2500 or Department permission required

Department: Nursing

NUR 2900 - Alternative Health Care Modalities

3 Credit(s) Hours: *3 hrs.*

Introduction to complementary and alternative health care Treatments such as herbal remedies, massage, acupuncture and meditation and their use in both disease management and health promotion.

Department: Nursing

NUR 4100 - Emergency Health Care

2 Credit(s) Hours: *2 hrs.*

Enhances knowledge of actual and potential environmental hazards, explores cardiopulmonary emergencies and identifies appropriate action(s). Techniques for taking vital signs and techniques of basic cardiac life support CPR (cardiopulmonary resuscitation) are demonstrated.

Department: Nursing

NUR 4200 - Parenting

3 Credit(s) Hours: *3 hrs.*

Theory and concepts relating to the interaction between parents and children from infancy to early adulthood. Participants explore effective parenting skills to assist in personal growth.

Department: Nursing

NUR 4300 - Perspectives on Death and Dying

3 Credit(s) Hours: *3 hrs.*

The dynamics of death and dying for the purpose of understanding one's own feelings and attitudes so that meaningful assistance may be given to the dying individual and the family are examined. The ethical/moral and legal problems arising from such controversial issues as advanced medical treatment, strategies, abortion, suicide and euthanasia are explored.

Open to all students.

Prerequisite(s): PSY 1100 or SOC 3100 or Department permission

Department: Nursing

NUR 4400 - Diet in Health and Illness

2 Credit(s) Hours: *2 hrs.*

The nature of food and fluid intake in healthy and in ill individuals. Cultural differences, the age variable and dietary modifications are examined.

Prerequisite(s): NUR 1800

Department: Nursing

NUR 4500 - Pharmacology in Health and Disease

3 Credit(s) Hours: *3 hrs.*

Intended for individuals of any background who desire information regarding safe use of prescription and nonprescription drugs. Emphasis will be placed on the impact of safe drug use on promoting and maintaining health. This course will also examine how drugs affect the body by changing many of its normal mechanisms and thereby contributing to health problems.

Prerequisite(s): NUR 1800

Department: Nursing

NUR 4600 - Transcultural Perspectives in Health Care

3 Credit(s) Hours: *3 hrs.*

Introduction to the field of transcultural health care. Provides an anthropological approach to healing, health values and practices of selected groups. Explores the roles of health professionals in reconciling ethnocentric health care values with health practices of culturally diverse groups.

Prerequisite(s): NUR 1800

Department: Nursing

NUR 4700 - Nursing in the Community

3 Credit(s) Hours: *3 hrs.*

Introduction to current home health care delivery systems, regulatory agencies, reimbursement mechanisms (insurance, private pay, Medicaid, Medicare), and roles and levels of care providers. Proposed Federal, State, City and private initiatives, planned changes in utilization and providers as well as accreditation and quality assurance programs will be explained. Options and skills to negotiate and obtain home care services for individuals and families will be discussed.

Prerequisite(s): NUR 1800

Department: Nursing

NUR 4800 - Introduction to Basic Health Assessment and Physical Examination of the Adult

3 Credit(s) Hours: *4 hrs.*

Introduction to the basic knowledge and skills required to perform a comprehensive health assessment of an adult. The compilation of a health history, interview techniques and a regional approach to the physical examination of the adult will be introduced and practiced. A synthesis of the physical, psychosocial, developmental and cultural assessments will prepare students to develop a holistic statement of the health status of an adult individual.

Prerequisite(s): NUR 1800

Department: Nursing

NUR 4900 - EKG Rhythm Recognition

3 Credit(s) Hours: *3 hrs.*

An intermediate level course that builds on basic cardiac knowledge. The advanced knowledge and skill necessary to visually recognize, understand and treat cardiac rhythm disturbances.

Prerequisite(s): NUR 1800 or Department permission

Department: Nursing

NUR 5000 - Pain Management Strategies

3 Credit(s) Hours: *3 hrs.*

The role of the nurse, physician, other health care professionals, and caretakers in the pain management of clients, including a focus on the terminally ill as well as the chronically pained client. In this course students will gain knowledge of both traditional pharmacological strategies as well as non-traditional alternative therapies.

Prerequisite(s): PSY 1100

Department: Nursing

NUR 5100 - End of Life Issues, Hospice and Palliative Care

3 Credit(s) Hours: *3 hrs.*

The role of the nurse, physician, other health care professional, and caretakers in the provision of care for the dying patient and family members. The students will gain knowledge of end of life issues, care, understand the philosophy of hospice and palliative care, and identify appropriate interventions when working with the terminally ill patient and grieving family members.

Prerequisite(s): PSY 1100 and/or Department permission

Department: Nursing

Office Administration

ADM 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of office administration and technology is developed individually between student and faculty member and must be approved by the Department.

Department: Business

ADM 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Business

ADM 1500 - Gregg Shorthand (Elementary)

3 Credit(s) Hours: *4 hrs.*

Understanding Gregg Shorthand theory is reinforced by practice in reading and writing contextual materials. The elements of transcription, proper English usage and correct grammatical form are introduced. For students with no prior shorthand knowledge and students with less than one year of instruction in Gregg Shorthand theory.

Department: Business

ADM 1600 - Basic Dictation

1 Credit(s) Hours: *2 hrs.*

Timed dictation at basic levels on previewed materials, automatizing brief forms, and the transcription of short business letters with correct spelling and punctuation. Shorthand theory in Gregg is reviewed through homework assignments and classroom participation.

Department: Business

ADM 1700 - Gregg Shorthand (Intermediate)

3 Credit(s) Hours: *4 hrs.*

Continued development of Gregg Shorthand language skills and pre-transcription training. Emphasis is on taking dictation at sustained speeds and reading shorthand fluently.

With approval, students who satisfactorily completed the equivalent of this course may be exempt.

Prerequisite(s): ADM 1500 **or** Department permission

Department: Business

ADM 2400 - Office Systems and Procedures

3 Credit(s) Hours: *3 hrs.*

The systems and procedures of the electronic office for administrative secretary and word processing specialist includes: planning and organizing office operations, developing good office leadership and human relations, controlling office operations, theory, concepts, and practices relating to office systems and procedures, employee performance, output and job satisfaction.

Required for all non-stenographic secretarial students.

Department: Business

ADM 2500 - E-Business Technologies

3 Credit(s) Hours: *3 hrs.*

The technical and strategic aspects of successful E-Business. Topics include: tools and technologies for creating a website, characteristics of successful website, security issues, legal and ethical issues, internet information services, data mining and global E-Business. Case studies will also be discussed.

Department: Business

ADM 3000 - Advanced Stenography and Transcription

4 Credit(s) Hours: *6 hrs.*

Stenographic skills are intensified with the ability to take dictation at rates of 80 to 100 words per minute for sustained periods, plus transcription techniques to meet office standards in the production of mailable transcripts.

Prerequisite(s): ADM 1700

Department: Business

ADM 3700 - Office Communication Skills

3 Credit(s) Hours: *3 hrs.*

The principles of writing effective business communications, including letters, reports, memoranda, directives, organization, language arts, human relations and the application of business psychology in writing.

Open to Program Majors only.

Prerequisite(s): Passed, exempt, **or** completed developmental course work for the CUNY Assessment Tests in Reading and Writing

Department: Business

ADM 4400 - Intermediate Shorthand: Intensive

4 Credit(s) Hours: *4 hrs.*

Develops skill attainment levels of ADM 1500 and ADM 1700 for students with educational and/or experiential background that includes the complete Gregg Shorthand and ability to take dictation at 60 wpm for two minutes with 95 percent accuracy. Each student is evaluated by the instructor to measure understanding the Gregg Shorthand principles, level of dictation, and transcription skills. Individual prescriptions include the use of tapes for development of shorthand principles and the ability to take dictation, the completion of transcription projects in the secretarial laboratory, and tutorial instruction.

Prerequisite(s): Department permission

Department: Business

ADM 5300 - The School Secretary I

2 Credit(s) Hours: *2 hrs. each semester*

This two-semester course considers educational principles relating to the school secretary's work. Emphasis is on the organization of school systems, particularly in New York City.

Department: Business

ADM 5400 - The School Secretary II

2 Credit(s) Hours: *2 hrs. each semester*

This two-semester course considers educational principles relating to the school secretary's work. Emphasis is on the organization of school systems, particularly in New York City.

Department: Business

ADM 5500 - School Records Management

2 Credit(s) Hours: *2 hrs.*

Introduction to the activities and responsibilities of the school secretary, including the preparation of a variety of reports usually completed in the school office records of school personnel, accounts, textbooks and supplies.

Department: Business

ADM 9229 - Field Experience

3 Credit(s) Hours: *9 hrs.*

Eight hours per week of supervised work experience in appropriate site placements in the community, and one hour a week of classroom discussion of the on-the-job experience are course requirements.

Corequisite(s): TEC 3400

Department: Business

Office Technology

TEC 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of secretarial/office administration is developed individually between student and faculty member and must be approved by the Department.

Department: Business

TEC 100 - New Student Technology Skills

1 Credit(s) Hours: *1 hr.*

Basic technology skills on the computer and Internet necessary for research and term paper preparation.

Department: Business

TEC 1100 - Computer Keyboarding I

2 Credit(s) Hours: *4 hrs.*

Basic skills in keyboarding are developed and applied to the formatting of simple business and personal letters, tabulations, and manuscripts.

Department: Business

TEC 1200 - Computer Keyboarding II

2 Credit(s) Hours: *4 hrs.*

Keyboarding speed and control. Beginning production skill in keying business forms including letters, tabulated materials, business reports, and manuscripts emphasizing business standards.

With approval, students who satisfactorily completed the equivalent of this course may be exempt.

Prerequisite(s): TEC 1100 or Department permission

Department: Business

TEC 1300 - Computer Keyboarding III

2 Credit(s) Hours: *4 hrs.*

Mastery of keyboarding skills and formatting techniques includes formatting business communications, directives, business reports, and statistical data.

Prerequisite(s): TEC 1200 or TEC 4100 or Department permission

Department: Business

TEC 1400 - Keyboarding for Business Communications

2 Credit(s) Hours: *3 hrs.*

Basic keyboarding skills for electronic keyboarding and computer input and the basics of written business communications which will be applied to the production and editing of business communications.

Open to Non-Majors.

Department: Business

TEC 2100 - Word/Information Processing I

3 Credit(s) Hours: *4 hrs.*

Modern word/information processing concepts in the organization, operation, and control of office functions. Emphasis is on the office administrator's dual role as an administrative assistant and/or as a correspondence secretary. Keyboarding of correspondence and tables using word processing software. Basic word processing terminology will be introduced.

Department: Business

TEC 2300 - Electronic Transcription

3 Credit(s) Hours: *4 hrs.*

Taped dictation of correspondence and reports representative of a variety of business firms and organizations are transcribed from a transcribing machine to the personal computer using current word processing software.

Prerequisite(s): TEC 1100 or Department permission

Department: Business

TEC 2400 - Organizing the Electronic Office for the Administrative Assistant

3 Credit(s) Hours: *4 hrs.*

Using current applications to create and organize files and folders for office documents, maintain the desktop environment, utilize an electronic calendar and contact lists, keep track of e-mail, and explore the internet. Basic skills and electronic office terminology will be emphasized. New developments in electronic office, including the Microsoft Office Suite, graphics and scanning will be explored.

Department: Business

TEC 2500 - Office Computer Applications I

3 Credit(s) Hours: *4 hrs.*

Knowledge, skill and understanding the uses of integrated software in the electronic office. Electronic spreadsheets, database management, word processing, graphics, and telecommunications are applied to office information processing.

Department: Business

TEC 2600 - Office Computer Applications II

3 Credit(s) Hours: *4 hrs.*

The advanced functions of Microsoft Office Software suite. The application of Microsoft Word to create and edit business correspondence, Microsoft Excel to format and create spreadsheets, charts, and macros, Microsoft Access to create an enhanced database, and in Microsoft PowerPoint to create slides for professional presentations.

Prerequisite(s): TEC 2500 or BA 6000 or CP 1100

Department: Business

TEC 2700 - Presentation Graphics for the Office

3 Credit(s) Hours: *4 hrs.*

Use of integrated software and development of multimedia presentations. Practice with presentation graphics to organize, plan and create slide shows, notes and outlines for the office.

Prerequisite(s): TEC 2500 or BA 6000 or CP 1100 or Department permission

Department: Business

TEC 3400 - Office Administration

3 Credit(s) Hours: *4 hrs.*

Simulates on-the-job secretarial duties concerning correspondence responsibilities, use of transmittal service, records management, receptionist and telephone techniques, travel procedures, financial and legal duties, preparing business reports, use of machine transcribers, and word processing equipment. Fostering good human relations in an office, and developing attitudes and traits of the successful executive office professional.

Open to Program Majors only.

Corequisite(s): ADM 9229

Department: Business

TEC 4100 - Intensive Computer Keyboarding II

4 Credit(s) Hours: *4 hrs.*

Develop skill attainment levels of TEC 1100 and TEC 1200, for students with educational and/or experiential background of 30 wpm for five minutes with a 3 percent error limitation. Students are evaluated by the instructor, and individual prescriptions are prepared to eliminate gaps in knowledge, understanding, and/or skills inadequacies. Completion of special skills projects in secretarial laboratories, development of malleability standards, and tutorial instruction.

Prerequisite(s): Department permission

Department: Business

TEC 4200 - Intensive Computer Keyboarding III

4 Credit(s) Hours: *4 hrs.*

Develops skill attainment and production levels of TEC 1200 and TEC 1300, for students with education and/or experiential background of 40 wpm for five minutes with 2.5 percent error limitation. The instructor evaluates each student and provides individual prescriptions that include specialized projects, use of the computer laboratory for skill building, and use of tutorial services.

Prerequisite(s): Department permission

Department: Business

TEC 5000 - Legal Terminology and Law Office Transcription

3 Credit(s) Hours: *3 hrs.*

Legal terms in basic areas of law. Training in transcribing and formatting legal correspondence and legal documents electronically.

Prerequisite(s): TEC 1200

Department: Business

TEC 5100 - Adobe Flash for Website Development

3 Credit(s) Hours: *4 hrs.*

Dynamic multimedia websites are developed using Adobe Flash, vector, and raster graphics. Emphasis on user-friendly, visually appealing, as well as technically correct websites that integrate animation and sound.

(Formerly TEC 8230)

Prerequisite(s): TEC 5300

Prerequisite(s)/Corequisite(s): TEC 5700

Department: Business

TEC 5300 - Website Technology I

3 Credit(s) Hours: *4 hrs.*

Basic conventions of website construction, technology and terminology. Websites will be constructed for publication on the World Wide Web.

Prerequisite(s)/Corequisite(s): TEC 5700

Department: Business

TEC 5400 - Website Technology II

3 Credit(s) Hours: *4 hrs.*

Second course in website technology will further refine skills learned in Website Technology I, explore requisite computer skills for building e-commerce websites and the non-technical concepts upon which e-commerce is based.

Prerequisite(s): TEC 5300 **or** Department permission

Department: Business

TEC 5500 - Website Technology III

3 Credit(s) Hours: *4 hrs.*

Third course in website technology build on skills learned in Website Technology I and II. Focus on critical analysis of websites on the Internet, websites developed by course participants and case studies.

Prerequisite(s): TEC 5300 **or** Department permission

Department: Business

TEC 5700 - The Computer as a Design Tool

3 Credit(s) Hours: *4 hrs.*

Illustrators, designers and desktop publishers learn basic concepts and receive hands-on experience in the use of a major computer illustration program which can be applied to commercial and fine art illustrations.

Prerequisite(s): College-level computer course **or** Department permission

Department: Business

TEC 5800 - Basic Desktop Publishing

3 Credit(s) Hours: *4 hrs.*

Develop basic desktop publishing skills including placement of text and graphics into a desktop publishing program, designing documents such as flyers, newsletters and advertisements.

Prerequisite(s): College-level computer course **or** Department permission

Department: Business

TEC 5900 - Photodigital Illustration

3 Credit(s) Hours: *4 hrs.*

The basic functions of a photodigital computer program to create and manipulate images, to retouch photographs and to create special graphical effects. These images may be used for onscreen multimedia presentations, print media and publication on the World Wide Web.

Prerequisite(s): College-level computer course **or** Department permission

Department: Business

TEC 6100 - Medical Terminology and Electronic Transcription

4 Credit(s) Hours: *4 hrs.*

The basic principles of medical word building to develop comprehensive medical vocabulary in the respiratory, cardiovascular, musculoskeletal, endocrine, hematic, urogenital and female reproductive systems. Job competency skills, including editing and proofreading, are acquired through transcription of taped dictation of medical reports and correspondence on the computer.

Required for all Medical Office Administration Majors. Equivalent courses and Department permission may be accepted in lieu of these requirements.

Prerequisite(s): TEC 1100 or TEC 1400 or Department permission

Department: Business

TEC 6200 - Medical Office Computer Applications

3 Credit(s) Hours: *3 hrs.*

This course is for anyone interested in learning how to convert the management of a medical office to a computerized operation.

Required for all Medical Office Administration Majors.

Department: Business

TEC 7000 - Virtual Enterprise

3 Credit(s) Hours: *3 hrs.*

Students establish and run a virtual business in a simulated business environment, and are responsible for establishing objectives, making transactions, using problem-solving strategies and applying their knowledge, skills and personalities to develop and run a successful business.

Prerequisite(s): Student must be computer literate

Department: Business

TEC 8200 - Medical Coding

3 Credit(s) Hours: *4 hrs.*

Principles of ICD/9-CM coding, procedural coding based on the principles of Current Procedural Terminology (CPT) coding, and third party reimbursement procedures are covered. Students will learn the fundamentals of a classification system used in the health care industry and enables students to obtain a working knowledge of the coding process.

Department: Business

TEC 9101 - Professional Portfolio Development

1 Credit(s) Hours: *1 hr.*

Projects created in previous coursework will be analyzed and developed to produce a portfolio to present to potential clients and employers.

Prerequisite(s)/Corequisite(s): TEC 5400, TEC 5500, TEC 5700 and TEC 5900

Department: Business

Philosophy

PHI 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of philosophy is developed individually between student and faculty member and must be approved by the Department.

Department: History, Philosophy and Political Science

PHI 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: History, Philosophy and Political Science

PHI 6500 - Philosophy of Sex and Gender

3 Credit(s) Hours: *3 hrs.*

This course will provide an overview of feminist perspectives of sex, gender, and sexuality. We will start with feminist philosophical perspectives for *methodological* reasons not for political or cultural reasons. In the 1970s and 1980s, feminist critiques of scientific objectivity arose in philosophy as a method of examining the frameworks of science- particularly the biological sciences - and the inherent subjectivity of both scientific research and *research methods*. This historical critique allowed philosophers to ask important questions about sex and sexuality, gender identity, gender normativity, biological essentialism, and more. Throughout the course, we will focus on key issues within feminist philosophy *as well as* on important areas of disagreement between feminist philosophy and its critics.

Department: History, Philosophy and Political Science

PHI 6600 - Criminal Justice Ethics

3 Credit(s) Hours: *3*

Application of ethical theories to moral issues arising in the American criminal justice system, such as civil disobedience, police corruption, whistle blowing, stop and frisk, prosecutor, plea bargaining, capital punishment, liability for unethical conduct, and the war on terror.

Flexible Core: Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

PHI 6700 - Political Philosophy

3 Credit(s) Hours: *3 hrs.*

This course provides students with a broad and solid theoretical grasp of political problems. As a result, students who take the course will be better positioned to make educated and adequate choices in the innumerable political situations of everyday life. The course relies on conceptual analysis, reading and interpreting texts, and writing clearly and effectively. The result is an enhanced ability to think critically, understand sophisticated and nuanced political discourse, and intervene in it for the sake of civic engagement and communal life.

Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

PHI 6800 - Ethical Problems in Business and Society

3 Credit(s) Hours: *3 hrs.*

Application of normative ethical theories to moral issues that exist in business and technology, such as employee rights and responsibilities, honesty in advertising, diversity and discrimination, privacy, and corporate responsibility.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

PHI 6900 - Environmental Philosophy

3 Credit(s) Hours: *3 hrs.*

A selection of the range of ethical and philosophical issues raised by humanity's acceleration of environmental change. Topics include our obligations to living organisms, ecosystems, and future generations, animal rights, and the definition of "nature" and what is "natural."

Department: History, Philosophy and Political Science

PHI 7000 - Introduction to Philosophical Problems

3 Credit(s) Hours: *3 hrs.*

Introduction to philosophical problems, such as the nature and scope of knowledge, the existence of God, free will, the mind-body problem, the nature of the self, and the nature of moral judgments. Multiple perspectives will be considered, e.g., Western, Asian, mystical, etc.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

PHI 7100 - History of Ancient Philosophy

3 Credit(s) Hours: *3 hrs.*

Development of classical philosophy of the ancient period, focusing on the thought of such thinkers as Socrates, Plato, Aristotle, Buddha, Confucius, and Lao Tsu.

Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

PHI 7200 - History of Modern Philosophy

3 Credit(s) Hours: *3 hrs.*

Development of philosophy from the Renaissance to the present, focusing on the works of such thinkers as Descartes, Leibniz, Spinoza, Hobbes, Locke, Berkeley, Hume, Kant, Nietzsche, and Kierkegaard.

Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

PHI 7300 - Logic: Theories of Argumentation

3 Credit(s) Hours: *3 hrs.*

Introduction to the basic theories of argumentation in their evolution from Plato and Aristotle to contemporary theories. Principles of logic, scientific method, and their application.

Flexible Core: Scientific World (Group E)

Department: History, Philosophy and Political Science

PHI 7400 - Introduction to Ethics

3 Credit(s) Hours: *3 hrs.*

The standards of right conduct and the good life in classical and contemporary ethical theories will be examined. Critical thinking skills in the application of these standards to moral issues will be developed.

Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

PHI 7500 - Philosophy of the Beautiful - Aesthetics

3 Credit(s) Hours: *3 hrs.*

Study of the aesthetic experience in the philosophies of Plato, Aristotle, Schopenhauer, Nietzsche and Kierkegaard. Examination of the criteria of the theories of beauty with reference to art, literature and music.

Flexible Core: Creative Expression (Group C)

Department: History, Philosophy and Political Science

PHI 7600 - Ethics and Morality in the Health Professions

3 Credit(s) Hours: *3 hrs.*

The range of moral dilemmas associated with health care and biological research includes an in-depth study of the major ethical theories that determine the content of our moral concepts.

Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

PHI 7700 - Philosophy of Religion

3 Credit(s) Hours: *3 hrs.*

A philosophical examination of basic concepts found in the world's diverse religious traditions, such as God, religious meaning, faith, and religious experience. Readings may be drawn from classical and contemporary sources.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

PHI 7800 - Philosophy in Asian Traditions

3 Credit(s) Hours: *3 hrs.*

A survey of the development of philosophical thought in the great Asian religious traditions: Buddhism, Hinduism, Confucianism and Taoism. Special emphasis on the major philosophical debates between and within these divergent traditions.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

PHI 7900 - Global Ethics

3 Credit(s) Hours: *3 hrs.*

Ethical issues of globalization, human rights and global crises will be studied. Students engage in a co-curricular civic-engagement component, such as the Salzburg Global Seminar International Study Program or the Student World Assembly.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

Physical Education, Recreation and Recreation Therapy (PERRT)

RPE 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Health, Physical Education and Recreation

RPE 700 - Introduction to Sports Management

3 Credit(s) Hours: *3 hrs.*

Cross-Listed With: TAH 700

Overview of the organizations and agencies that comprise the sports industry and their roles and interrelationships. This is a foundation course that covers the history, ethics, diversity, management theories, laws, and operating procedures of sports management.

Department: Health, Physical Education and Recreation

RPE 1100 - Introduction to Recreation and Physical Education

3 Credit(s) Hours: *3 hrs.*

Explore historical and philosophical foundations of recreation/recreation therapy and physical education and study the variety of organizations that provide those programs. Examine topics that include an analysis of play, games, sport and fitness, as related to the development of personal interests among clients and students.

For Program Majors only.

Department: Health, Physical Education and Recreation

RPE 1200 - Leadership in Recreation, Physical Education and Sport Management

3 Credit(s) Hours: *3 hrs.*

Learn various leadership styles, supervision, group dynamics, and proper teaching techniques. Additional topics include conflict resolution, behavior management, values and ethics, and risk management. Examines professional organizations in physical education teaching, recreation, recreation therapy, and sport management.

Department: Health, Physical Education and Recreation

RPE 1300 - Social Recreation

3 Credit(s) Hours: *3 hrs.*

Learn to assess, plan, implement, and evaluate an inclusive social recreation activity in camps, recreation centers, clubs, healthcare facilities, and playgrounds. Under supervision, opportunities are provided to develop leadership skills in recreation. Develop, implement, and evaluate protocol. Learn special event planning, group dynamics, and effective teaching techniques.

Prerequisite(s)/Corequisite(s): RPE 1100

Department: Health, Physical Education and Recreation

RPE 1400 - Camping and Outdoor Recreation

2 Credit(s) Hours: *2 hrs.*

Explore trends in outdoor recreation, the role of the recreation leader, the scope and extent of programs in conservation, camping, and nature. A weekend 24-hour faculty supervised camping and hiking trip is required, as well as participation in two 4-hour training and preparation sessions, prior to camping outdoors. Small group work is organized to accomplish assignments. Individual journals and a final paper reflecting on their experiences are required.

Department: Health, Physical Education and Recreation

RPE 1500 - Summer Camp Leadership

2 Credit(s) Hours: *2 hrs.*

To prepare as future camp counselors, students examine basic camping philosophy, camping objectives, problems in the camping field, acquire skills and leadership essential in camp life.

Department: Health, Physical Education and Recreation

RPE 1600 - Folk and Square Dance Teaching Techniques

2 Credit(s) Hours: 2 hrs.

Folk and square dance basic movement, positions, etiquette and terminology are linked with teaching techniques.

Department: Health, Physical Education and Recreation

RPE 3100 - Therapeutic Recreation for Individuals with Disabilities I

3 Credit(s) Hours: 3 hrs.

Learn the philosophy and history of Therapeutic Recreation (TR). Explore accessibility barriers as well as the principles of normalization and inclusion for individuals with special needs. An emphasis on the TR process and provision of a continuum of services based on clients' needs. Examine principles of adapting activities and environments to meet the needs, interests and abilities of individuals with physical and/or development disabilities. Attend one (1) field observation in a setting for individuals with special needs.

Prerequisite(s): RPE 1100 and RPE 1200 or COH 1100. **For Program Majors only**

Department: Health, Physical Education and Recreation

RPE 3200 - Organization and Administration of Recreation, Physical Education, and Sport Management Programs

3 Credit(s) Hours: 3 hrs.

Examine the principles of organization and administration of recreation, physical education, and sport program and facilities. Focuses on developing effective programming inclusive of: a mission statement/goals/objectives, needs assessment, facility planning, program implementation and evaluation, learn effective communication, and address budget, public relations, risk management, and personnel/supervision issues. Requirement to attend two (2) college wide events and evaluate one as an operations manager.

Prerequisite(s): RPE 1100, RPE 1200, and RPE 3100.

RPE 3100 **NOT** required for students enrolled in the Sports Management Concentration.

For Program Majors only.

Prerequisite(s)/Corequisite(s): RPE 9152

Department: Health, Physical Education and Recreation

RPE 3300 - Skills in Arts and Crafts

2 Credit(s) Hours: 2 hrs.

Opportunities to develop skills with various materials and to teach the use of clay, paper, paint, yarn, wire, soap and wood. Encourages creativity and provides enjoyment for all ages and special groups.

Department: Health, Physical Education and Recreation

RPE 3400 - Methods and Materials in Arts and Crafts

3 Credit(s) Hours: *3 hrs.*

Develop maximum skill levels in arts and crafts projects. Recreational values in different programs, different techniques necessary for proper presentation of arts and crafts programs to groups of diverse ages and physical abilities, and various methods of teaching the developed skills to special groups.

Department: Health, Physical Education and Recreation

RPE 3500 - Therapeutic Recreation for Individuals with Disabilities II

3 Credit(s) Hours: *3 hrs.*

Examine the biopsychosocial approach to the later part of the lifespan and the contribution leisure and recreation make to quality of life. Acquire an understanding of normal and abnormal psychological and emotional development. Learn to plan recreation programs that meet the needs of seniors and those with emotional/psychological disorders in both clinical and community settings. Attend one (1) clinical field observation.

Prerequisite(s): RPE 3100 or COH 1100. **For Program Majors only.**

Department: Health, Physical Education and Recreation

RPE 3600 - Assessment Process in Therapeutic Recreation

3 Credit(s) Hours: *3 hrs.*

Gain competency in using assessment tools in behavioral observation of clinical case simulations and analysis of videotaped interviews with individuals that have special needs. Explore various Therapeutic Recreation models of practice for use in clinical and community based settings. Learn principles and practices of developing individualized treatment plans based on assessment data. Study methodology for completing an activity and developing a program protocol.

Prerequisite(s)/Corequisite(s): RPE 3100 , PSY 1100 is recommended

Department: Health, Physical Education and Recreation

RPE 4000 - Sport and American Society

3 Credit(s) Hours: *3 hrs.*

Explore the significant interrelationships of sport in American society and internationally. Apply sociological theories of functionalist, conflict, critical, and interactionist to study sport in society. Discuss contemporary and controversial issues inclusive of gender equity, drug use, youth sport, and race. Study the symbiotic relationship of sport, business, economy, and media.

Department: Health, Physical Education and Recreation

RPE 4500 - Advanced Arts and Crafts

2 Credit(s) Hours: 2 *hrs.*

To familiarize students with methods of design and decoration, a series of wood projects will be completed as the use of stencil, paint, varnish and hand detailing techniques are mastered.

Prerequisite(s)/Corequisite(s): RPE 3300 or RPE 3400

Department: Health, Physical Education and Recreation

RPE 4600 - Facilities Planning in Sports

3 Credit(s) Hours: 3 *hrs.*

Cross-Listed With: TAH 4600

Learn principles, guidelines and recommendations for planning, constructing, using and maintaining sports facilities. Explore financing, public and private partnerships, American with Disabilities Act, and risk management in sport facilities. Study crowd and emergency management, facility alcohol plan, and concession and box office operations.

Department: Health, Physical Education and Recreation

RPE 7000 - Introduction to Teaching Methods in Physical Education

3 Credit(s) Hours: 3 *hrs.*

Develop and execute a lesson plan for an activity, using the New York State Learning Standards for Physical Education, while receiving feedback from peers and instructor. Examine curriculum and instruction in physical education, the role and function of professional organizations, and develop a personal philosophy of physical education.

Department: Health, Physical Education and Recreation

RPE 7200 - Exploring Leisure to Promote Wellness

2 Credit(s) Hours: 2 *hrs.*

The social, historical and cultural influences that shape attitudes towards leisure. Emphasis is on the contribution of leisure experiences to psycho/social/emotional and physical well-being. Through an experiential approach inside and outside class, students are encouraged to expand their leisure awareness.

Department: Health, Physical Education and Recreation

RPE 9152 - Field Experience in Physical Education, Recreation/Recreation Therapy, and Sport Management

3 Credit(s) Hours: *6 hrs.*

Experience and complete 100 hours of supervised fieldwork in either a public or private school education program, community recreation setting, or therapeutic recreation program. A weekly one-hour seminar covers diversity, leadership, ethics and values, assessment and development of a resume/cover letter. Works in small teams to develop, implement, and evaluate a student run activity. Maintain reflective logs of experiences throughout the semester.

Prerequisite(s): RPE 1100, RPE 1200, and RPE 3100.

RPE 3100 **NOT** required for students enrolled in the Sports Management Concentration.

For Program Majors only.

Prerequisite(s)/Corequisite(s): RPE 3200

Department: Health, Physical Education and Recreation

RPE 9253 - Field Experience in Recreation and Recreation Therapy

3 Credit(s) Hours: *6 hrs.*

Advanced field experience involves increased participation in the assigned recreation agencies, assignment to a second type of agency for varied experience, and one-hour seminar.

Prerequisite(s): RPE 9152. **For Program Majors only.**

Prerequisite(s)/Corequisite(s): RPE 3500

Department: Health, Physical Education and Recreation

Physical Education: Co-Education Activities

PEC 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Health, Physical Education and Recreation

PEC 200 - Walk, Jog, Run

1 Credit(s) Hours: *2 hrs.*

Examine the principles and practices for assessing and improving cardiovascular fitness. Design a personal cardiovascular fitness program and receive individualized instruction. Learn to use proper progression to improve aerobic fitness.

Department: Health, Physical Education and Recreation

PEC 400 - Training With Weights

1 Credit(s) Hours: 2 *hrs.*

Learn weight training techniques to increase muscle strength and endurance for a specific sport activity and/or improve overall physical fitness. Learn proper progression and design a weight training program to suit personal needs.

Department: Health, Physical Education and Recreation

PEC 500 - Body Building

1 Credit(s) Hours: 2 *hrs.*

Increases knowledge and appreciation of the physical attributes involved in body building. Course covers beginning, intermediate and advanced training techniques to increase muscular strength, muscular endurance, flexibility, and to improve physical appearance as desired.

Department: Health, Physical Education and Recreation

PEC 600 - Physiological Fitness and Development: Training with Weights

2 Credit(s) Hours: 3 *hrs.*

To increase muscle strength, endurance and cardiorespiratory efficiency, students learn to create individualized exercise prescriptions based on specific physiological needs. The anatomy and kinesiology of the systems and muscles unique to weight training are discussed.

Students who completed PEC 400 will not receive credit for this course.

Department: Health, Physical Education and Recreation

PEC 700 - Soccer Techniques

1 Credit(s) Hours: 2 *hrs.*

Soccer, the fastest growing team sport in the country, can be played by both sexes and all ages. Technical development, tactical understanding and appreciation of the popular sport are covered in this course.

Offered only in Fall

Department: Health, Physical Education and Recreation

PEC 800 - Body Weight Resistance Training

1 Credit(s) Hours: 2 *hrs.*

This course will introduce students to the methodology and practice for improving health-and-skill-related components of physical fitness. The mode of activity will include body weight and callisthenic type activities with the use of minimal equipment.

Department: Health, Physical Education and Recreation

PEC 1100 - Beginning Tennis

1 Credit(s) Hours: 2 *hrs.*

Basic tennis skills develop appreciation of tennis as a lifetime sport. Students learn forehand and backhand drives, Beginner's Serve, service return, volley, rules of the singles and doubles game and an understanding of fundamental techniques and basic strategies.

Students must supply their own rackets and tennis balls.

Department: Health, Physical Education and Recreation

PEC 1200 - Tennis 3

1 Credit(s) Hours: 2 *hrs.*

Introduction to intermediate tennis skills: top spin, slice, attaching the net, offensive and defensive strategy in competition. Apply tennis skills in single and doubles games situations.

Students must supply their own rackets and tennis balls.

Prerequisite(s): PEC 1100 **or** previous tennis experience **or** Department permission

Department: Health, Physical Education and Recreation

PEC 1500 - Badminton

1 Credit(s) Hours: 2 *hrs.*

Learn to play badminton, knowledge of rules, and offensive and defensive strategy. Learn badminton skills: serving, underhand, backhand, overhead, drop shot, smash, and racket grip. Learn singles and doubles game play.

Department: Health, Physical Education and Recreation

PEC 1700 - Basic Volleyball

1 Credit(s) Hours: 2 *hrs.*

Beginner-intermediate level: rules, basic individual skills, offensive/defensive systems, team coordination, training, conditioning, prevention of injury, and evaluation of performance.

Department: Health, Physical Education and Recreation

PEC 1800 - Introduction to Fencing

1 Credit(s) Hours: 2 *hrs.*

Students will be exposed to the history, skills, and theory necessary for effective participation and appreciation of fencing. Students will be exposed to the fencing classic schools/styles, fencing equipment, structure and functional skills. Students will participate in foil and sabre competitions, learn about weapon control, fencing techniques, and tactics. Students will learn about the fencing federations, scoring system, and tournament play

Department: Health, Physical Education and Recreation

PEC 1900 - Aerobic Dance

1 Credit(s) Hours: 2 hrs.

Learn vigorous calisthenics exercises with dance steps to music to improve cardiovascular endurance and muscles toning. Apply aerobic activities for health and wellness, boost mood, burn calories, and improve body composition and flexibility.

Department: Health, Physical Education and Recreation

PEC 2000 - Beginner's Ballet

1 Credit(s) Hours: 2 hrs.

Introduction to the principles and techniques inherent in the art of classical ballet. Includes exercises and movement combinations leading to body alignment, endurance, strength, and fluidity of movement.

Department: Health, Physical Education and Recreation

PEC 2500 - Tai Chi Ch'Uan

1 Credit(s) Hours: 2 hrs.

The principles and practices of Tai Chi Ch'uan will be presented and practiced for the purpose of exercise, meditation, self-defense and increased overall wellness.

Department: Health, Physical Education and Recreation

PEC 2600 - Golf

1 Credit(s) Hours: 2 hrs.

Emphasis is on mechanics of movement involved in the performance of the following basic fundamental skills: basic swing, short and long irons, woods, and putting.

Department: Health, Physical Education and Recreation

PEC 2700 - Beginning Karate and Self Defense

1 Credit(s) Hours: 2 hrs.

Introduction to formal Karate and practical self-defense techniques. History and background, fundamental stances, blocks, punches, kicks, conditioning, safety, methods of avoidance and personal self-defense movements, and oriental tradition (Karate costumes, respect and Buddhist philosophy).

Department: Health, Physical Education and Recreation

PEC 2900 - Introduction to Hatha Yoga

1 Credit(s) Hours: 2 hrs.

Introduction to the conceptual framework of Hatha Yoga, and the development of students' capacity to perform physical, breathing, concentration, and relaxation exercises.

Department: Health, Physical Education and Recreation

PEC 3000 - Swimming for Non-Swimmers and Beginners

1 Credit(s) Hours: 2 *hrs.*

Basic skills to swim properly. Special attention given to non-swimmers who will learn in shallow water. At the end of the course, students will be able to jump or dive into the water, swim in a prone position and on the back.

Department: Health, Physical Education and Recreation

PEC 3100 - Life Guarding

1 Credit(s) Hours: 2 *hrs.*

The knowledge and skills necessary to safely assist, and/or effect water rescues, and supervise swimmers in a safe environment. At the conclusion of the course, students will be able to pass both written examination and skills test.

Prerequisite(s)/Corequisite(s): Swimming skills equivalent to American Red Cross Swimmer Course, Standard First Aid and CPR skills

Department: Health, Physical Education and Recreation

PEC 3200 - Water Safety Instructor

1 Credit(s) Hours: 2 *hrs.*

The skills necessary to teach swimming and water safety courses as offered by the American Red Cross. At the conclusion students will be able to pass both a written examination and a skills test.

Prerequisite(s): Valid American Red Cross Advanced Lifesaving Certificate **and** either an American Red Cross Swimmer Certificate **or** the ability to perform skills in the swimmer course

Department: Health, Physical Education and Recreation

PEC 3300 - Advanced Swimming

1 Credit(s) Hours: 2 *hrs.*

An opportunity to improve cardiovascular fitness. Emphasis is on swimming efficiently and on swimming long distances.

Limited to Deep-Water Swimmers.

Department: Health, Physical Education and Recreation

PEC 3400 - Basics of Modern Western Square Dancing

1 Credit(s) Hours: 2 *hrs.*

Survey of different forms of American folk dancing including modern western square dancing, traditional, country/western line and mixer dancing.

Department: Health, Physical Education and Recreation

PEC 3800 - Modern Dance Techniques

1 Credit(s) Hours: 2 *hrs.*

The fundamental principles of various schools of modern dance. Includes analysis of movement, conditioning techniques, and basic combinations.

Department: Health, Physical Education and Recreation

PEC 3900 - Modern Dance Composition

1 Credit(s) Hours: 2 *hrs.*

Ideas and movement forms: systematic creativity through improvisation studies, formal compositions, and critical appraisal presented through experimentations with time, space, rhythm and correlations to art, poetry and music.

Department: Health, Physical Education and Recreation

PEC 4000 - Modified Physical Activities for all Ages and Abilities

1 Credit(s) Hours: 2 *hrs.*

To develop and maintain physical fitness for people of all ages and abilities who require modifications. Students will engage in a variety of activities such as fitness exercises, yoga (on a chair and/or mat), dancing and modified sports. Aspects of fitness, posture, rhythms, movement, breathing, concentration and relaxation are emphasized.

Department: Health, Physical Education and Recreation

PEC 4100 - Intermediate Swimming

1 Credit(s) Hours: 2 *hrs.*

The elements of good swimming and a variety of skills are taught. Students practice parts of strokes as well as whole stroking movements.

Prerequisite(s): Ability to swim safely in deep water

Department: Health, Physical Education and Recreation

PEC 4400 - Tennis 2

1 Credit(s) Hours: 2 *hrs.*

Course reviews basic tennis skills: ready position, forehand stroke, backhand stroke, serve and volley. Students will receive an evaluation and individualized instruction.

Prerequisite(s): PEC 1100

Department: Health, Physical Education and Recreation

PEC 4500 - Tennis 4

1 Credit(s) Hours: 2 hrs.

Course reviews intermediate tennis skills, including: Eastern forehand, semi-Western forehand, Western forehand stroke, top spin, and strategy for singles and doubles play. Students will receive an evaluation and individualized instruction.

Prerequisite(s): PEC 1200

Department: Health, Physical Education and Recreation

PEC 5600 - Pilates System of Exercise

1 Credit(s) Hours: 2 hrs.

Introduction to a progressive series of exercises based on Joseph H. Pilates' method of conditioning the body. It accommodates all fitness levels to increase muscle strength, flexibility and balance of the entire body.

Department: Health, Physical Education and Recreation

PEC 6400 - Deep Water Exercise for Fitness

1 Credit(s) Hours: 2 hrs.

Introduction to the components of fitness achieved through the utilization of non-impact movements performed in deep water. The development of muscular strengths, flexibility and increased aerobic capacity will be stressed as students work in a non-impact exercise environment.

Prerequisite(s): Each student will be required to swim 25 meters (1 lap) and demonstrate the ability to stay afloat by treading water for a two-minute time period

Department: Health, Physical Education and Recreation

PEC 6500 - Aqua Exercise

1 Credit(s) Hours: 2 hrs.

An overview of the scope of fitness attainable from a regulated program of exercising in water.

Development of muscular strength, flexibility and increased aerobic capacity (endurance) is stressed in aqua aerobics and water exercise.

Department: Health, Physical Education and Recreation

PEC 6600 - Intermediate Yoga

1 Credit(s) Hours: 2 hrs.

Techniques for deepening one's practice of classical yoga postures, exploring various lineages, styles and traditions of Yoga including Iyengar, Ashtanga and Vinyasa, posture variations, backbends and inversions, intermediate pranayama (breathing) techniques and the use of yoga props.

Prerequisite(s): PEC 2900 or PEC 6700 or permission of instructor

Department: Health, Physical Education and Recreation

PEC 6700 - Yoga and Meditation

2 Credit(s) Hours: *2 hrs.*

Application of the fundamental principles of yoga and meditation. An overview of the philosophy and psychology of yoga and meditation, an understanding of asanas and chakras, an explanation for the contraindications for certain asanas or meditative techniques, and a review of physical and psychological health conditions that may derive significant benefit from yoga and meditation.

Prerequisite(s): PEC 2900 or other yoga experience with permission of instructor

Department: Health, Physical Education and Recreation

PEC 7100 - High Intensity Fitness Training

1 Credit(s) Hours: *2 hrs.*

This course will introduce students to the methodology and practice of high intensity fitness training. High intensity training is an advanced method designed to obtain higher levels of fitness by combining calisthenics, resistance training and aerobic fitness activities. Students will learn safe and effective techniques to improve health-and skill-related components of physical fitness.

Department: Health, Physical Education and Recreation

Physical Education: Men's Activities

PEM 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Health, Physical Education and Recreation

PEM 200 - Baseball

1 Credit(s) Hours: *2 hrs.*

To develop individual and team techniques involved in "College Baseball." Conditioning, sportsmanship, team play, appreciation of the game and its rules, and other benefits.

Offered only in Spring

Department: Health, Physical Education and Recreation

PEM 500 - Basketball Techniques

1 Credit(s) Hours: *2 hrs.*

Various aspects of basketball include: basic skills, practice drills, individual and team responsibilities in man-to-man and zone defenses, offenses against man-to-man and zone defenses, coaching techniques and basketball strategy.

Department: Health, Physical Education and Recreation

Physical Education: Women's Activities

PEW 200 - Basketball

1 Credit(s) Hours: 2 *hrs.*

Learn about basketball, develop individual skills required to participate successfully and learn strategies necessary for team play.

Department: Health, Physical Education and Recreation

PEW 600 - Softball

1 Credit(s) Hours: 2 *hrs.*

Throwing, catching, batting and running skills are developed so the game of softball can be played with enjoyment and satisfaction. Strategies of play and rules of the game.

Department: Health, Physical Education and Recreation

PEW 700 - Power Volleyball

1 Credit(s) Hours: 2 *hrs.*

Introduction to the techniques of a highly skilled game of volleyball called power volleyball, including history, rules, scoring, terminology, general conditioning, individual volleyball skills, team play elements, specific offense and defense tactics.

Department: Health, Physical Education and Recreation

PEW 2100 - Personal Self Defense for Women

1 Credit(s) Hours: 2 *hrs.*

This course is designed to provide women with the skills necessary for women to protect themselves in violent or potentially violent situations. Women will learn to spot danger before it begins, survival tips for safety problem areas in daily life, strategies for controlling panic and remaining calm, and practical self-defense techniques.

Department: Health, Physical Education and Recreation

Physical Therapist Assistant

PTA 100 - Foundations of Physical Therapy I

3 Credit(s) Hours: *5 hrs.*

Introduction to medical terminology and abbreviations, effective documentation and interpretation of physical therapy documents, multimedia documentation strategies, basic skills and competencies including range of motion, vital signs monitoring, body mechanics, lifting techniques, bed mobility/draping and transfer activities.

Prerequisite(s): BIO 1100

Corequisite(s): PTA 100, PTA 200 and PTA 2000

Department: Allied Health, Mental Health and Human Services

PTA 200 - Kinesiology and Applied Anatomy

4 Credit(s) Hours: *6 hrs.*

Introduction to the anatomy of the musculo-skeletal system as well as basic kinesiology concepts. Joint goniometry is presented. Emphasis is on the role and nature of muscles, muscular origins, insertions and innervations, articular function and structure.

Prerequisite(s): BIO 1100

Corequisite(s): PTA 100, PTA 1000 and PTA 2000

Department: Allied Health, Mental Health and Human Services

PTA 300 - Foundations of Physical Therapy II

3 Credit(s) Hours: *5 hrs.*

A continuation of PTA 100, introduction to gait deviations and ambulation activities using assistive devices and guarding techniques. Wheelchair activities are also presented. Introduction to the rehabilitation population, including the effects of aging and the geriatric patient.

Prerequisite(s): PTA 100, PTA 200, PTA 1000, PTA 2000 and BIO 1100

Department: Allied Health, Mental Health and Human Services

PTA 400 - Modalities and Procedures I

5 Credit(s) Hours: *8 hrs.*

Introduction to the physical basis of physical therapy modalities of heat and cold along with physiological principles, indications, contraindications and precautions, the origins and management of pain, basic assessment techniques necessary to evaluate the efficacy of the applied modality, including length and girth assessments and skin and sensation assessments.

Prerequisite(s): PTA 300

Corequisite(s): PTA 500

Prerequisite(s)/Corequisite(s): BIO 1200

Department: Allied Health, Mental Health and Human Services

PTA 500 - Therapeutic Exercise

5 Credit(s) Hours: 8 hrs.

Introduction to therapeutic exercise techniques, studied by anatomical region. Manual muscle testing is presented and practiced. Topics including resistive exercise, passive stretching and range of motion techniques. Therapeutic exercise equipment such as kinetron, ergometers, treadmill and wall pulleys are introduced.

Prerequisite(s): PTA 300

Corequisite(s): PTA 400

Prerequisite(s)/Corequisite(s): BIO 1200

Department: Allied Health, Mental Health and Human Services

PTA 600 - Clinical Practicum I

3 Credit(s) Hours: 35 hrs.

Initial eight-week, full-time clinical experience as assigned by the Academic Coordinator of Clinical Education. Under the supervision of clinical faculty at a facility providing physical therapy services, students interact with patients, provide physical therapy treatment and assist therapists in measurements and complex procedures. Students apply their knowledge and practice the skills of transfer and gait training, the application of heat and cold and therapeutic exercise. Students must be assessed as competent in all previous coursework prior to the first clinical practicum.

Prerequisite(s): PTA 500

Department: Allied Health, Mental Health and Human Services

PTA 700 - Modalities and Procedures II

4 Credit(s) Hours: 6 hrs.

The physical basis of physical therapy modalities of electricity and physiological principles, indications, contraindications and precautions. Introduction to the pulmonary toilet, mechanical traction, phototherapy and therapeutic massage.

Prerequisite(s): PTA 300, PTA 400, PTA 500, PTA 600 and BIO 1200

Corequisite(s): PTA 800

Department: Allied Health, Mental Health and Human Services

PTA 800 - Selected Topics in Physical Therapy

5 Credit(s) Hours: 8 hrs.

Selected topics related to the physical therapy management of pathology with emphasis on comprehensive physical therapy including normal motor development, neurodevelopmental techniques, proprioceptive neuromuscular facilitation, back pathologies and treatments, orthotic management, amputee and prosthetic management, orthopedic protocols and administrative topics. Facilitation of the application of all previous learning in classroom, laboratory and clinical settings.

Prerequisite(s): PTA 400, PTA 500, PTA 600 and BIO 1200

Corequisite(s): PTA 700

Department: Allied Health, Mental Health and Human Services

PTA 900 - Clinical Practicum II

3 Credit(s) Hours: *35 hrs.*

Concluding eight-week, full-time clinical experience as assigned by the Academic Coordinator of Clinical Education. Under the supervision of clinical faculty at a facility providing physical therapy services, students interact with patients, provide physical therapy treatment and assist therapists in measurements and complex procedures. Students practice the skills of transfer and gait training, modalities application and therapeutic exercise. Student's skills and competence in these areas are assessed by the program faculty prior to participation in this course and must be assessed as competent in all previous coursework prior to this clinical practicum.

Prerequisite(s): PTA 800

Department: Allied Health, Mental Health and Human Services

PTA 1000 - Introduction to Physical Therapy

3 Credit(s) Hours: *3 hrs.*

Introduction to the physical therapy profession. Topics include: the history of physical therapy, pertinent laws governing practice, code of conduct, the role of the professional association, the role of the physical therapist and physical therapist assistant, definition of the rehabilitation population, communication skills and psycho-social aspects of disabilities.

Corequisite(s): PTA 100, PTA 200 and PTA 2000

Prerequisite(s)/Corequisite(s): BIO 1100

Department: Allied Health, Mental Health and Human Services

PTA 2000 - Pathology

3 Credit(s) Hours: *3 hrs.*

Introduction to common pathologies partially managed by physical therapy. The course is divided into four units: orthopedic, neurological, cardiopulmonary and acute medical conditions. General overviews of common pathologies, including anatomical and physiological considerations, etiologies and physical therapy management.

Prerequisite(s): BIO 1100

Corequisite(s): PTA 100, PTA 200 and PTA 1000

Department: Allied Health, Mental Health and Human Services

PTA 2500 - Interactions in the Clinic

3 Credit(s) Hours: *4.5 hrs./1.5 hrs. lecture, 3 hrs. laboratory*

Simulation of the clinical environment through the use of specific role playing activities related to the administration of physical therapy services, PT/PTA interactions, ethical challenges, interdisciplinary communication and other relevant issues.

Prerequisite(s): PTA 600

Corequisite(s): PTA 700 and PTA 800

Department: Allied Health, Mental Health and Human Services

Physics

PHY 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of physics is developed individually between student and faculty member and must be approved by the Department.

Department: Physical Sciences

PHY 100 - Preview of General Physics

0 Credit(s) 2 Equated Credit(s) Hours: *2 hrs.*

Topics covered include: measurements mathematical background, vectors, motion in a straight line, motion in a plane, forces, work, energy, power, momentum, impulse and angular motion in a plane. Developmental Course

Prerequisite(s): MAT 900

Department: Physical Sciences

PHY 1100 - General Physics I

4 Credit(s) Hours: *6 hrs.*

First term of non-calculus two-semester lecture and laboratory course in classical and modern physics.

Includes study of mechanics, heat, hydrostatics and hydrodynamics, harmonic motion and waves.

Physical principles are demonstrated and students receive hands-on laboratory experience.

Recommended for students in liberal arts, pre-medical, pre-dental, pre-pharmacy, pre-optometry and allied health.

Prerequisite(s)/Corequisite(s): MAT 1400; **or** PHY 1100 Skills Support, **or** Department Permission. Contact Department of Physical Sciences for PHY 1100 Skills Support information.

Department: Physical Sciences

PHY 1200 - General Physics II

4 Credit(s) Hours: *6 hrs.*

Second term of General Physics. Includes sound, electricity, magnetism and optics. Laboratory sessions included.

Prerequisite(s): PHY 1100 **or** Department Permission

Department: Physical Sciences

PHY 1300 - Advanced General Physics I

4 Credit(s) Hours: *6 hrs.*

First term of calculus two-semester lecture and laboratory course in classical and modern physics. Includes the study of mechanics, heat, hydrostatics and hydrodynamics, harmonic motion and waves. Physical principles demonstrated and hands-on laboratory experience.

Recommended for science, engineering, pre-medical and allied health students who desire a more comprehensive treatment than given in PHY 1100.

Prerequisite(s)/Corequisite(s): MAT 1500 , **or** PHY 1300 Skills Support, **or** Department Permission. Contact Department of Physical Sciences for PHY 1300 Skills Support information.

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

PHY 1400 - Advanced General Physics II

4 Credit(s) Hours: *6 hrs.*

Second term of PHY 1300. Topics include sound, electricity, magnetism and optics. Laboratory sessions included.

Prerequisite(s): PHY 1300

Prerequisite(s)/Corequisite(s): MAT 1600, **or** PHY 1400 Skills Support, **or** Department Permission. Contact Department of Physical Sciences for PHY 1400 Skills Support information.

Required Core: Life and Physical Sciences

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

PHY 4200 - Ideas of Modern Physics

3 Credit(s) Hours: *3 hrs.*

The origin, ideas and scientific developments of modern physics including a brief description of Classical Physics, the Theory of Special and General Relativity, and Quantum Mechanics.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Department: Physical Sciences

PHY 9201 - Research I

1-3 Credit(s) Hours: *2-6 laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

PHY 9202 - Research II

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

PHY 9203 - Research III

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

PHY 9204 - Research IV

1-3 Credit(s) Hours: 2-6 *laboratory hrs.*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results

Prerequisite(s): Department permission

Department: Physical Sciences

Political Science - U.S. Politics

POL 5100 - Introduction to U.S. Government

3 Credit(s) Hours: 3 *hrs.*

Structure of the national government and the way it operates. Includes discussion of our democratic system, the three branches of government (executive, legislative and judicial), political parties, pressure groups, and current legislation.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

POL 5300 - State and Local Governments and Politics

3 Credit(s) Hours: *3 hrs.*

An introduction to a contemporary perspective on the powers and responsibilities of state and local governments in the context of understanding how the government of the United States works. This course will focus on the ways that state and local governments both cooperate and conflict with the national government, and on specific topics including elections; state-local-federal relations; and on policy issues, such as education, criminal justice, health and welfare with a particular emphasis on New York City and New York State government and politics.

Department: History, Philosophy and Political Science

POL 5400 - The Presidency

3 Credit(s) Hours: *3 hrs.*

Description and analysis of the Presidency as a post-World War II political institution. A historical introduction to the role of the President, the growth of the Presidency from 1789 to the present, and the factors currently affecting presidential elections, and presidential powers.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

POL 5500 - U.S. Political Parties

3 Credit(s) Hours: *3 hrs.*

The function and role of the American political party system in American life will be explored. Special emphasis will be given to social bases of voting blocks, patterns of voting and non-voting, the influence of money and interest groups on the parties and how the system has changed over time.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: History, Philosophy and Political Science

POL 5600 - Urban Politics

3 Credit(s) Hours: *3 hrs.*

This course explores the economic, historic, political, and social forces that shape urban life. It then examines several contested policy issues - housing, economic development, education and/or welfare. Through readings, films, discussions, and research, students will become familiar with key concepts in urbanism and how intersections of race/class/gender inform urban experience.

Department: History, Philosophy and Political Science

POL 6100 - Introduction to Public Policy

3 Credit(s) Hours: *3 hrs.*

This course examines the policy environment, major actors, and institutions involved in the complex process of policy making in the United States. Understanding the policy process is key to examining problems and formulating appropriate solutions in policy areas such as criminal justice, education, healthcare, social welfare, housing, and environmental policy. This course will focus on the stages of the policy process including, agenda setting, policy formation, decision making, policy implementation and policy evaluation.

Department: History, Philosophy and Political Science

POL 6500 - Civil Rights and Liberties

3 Credit(s) Hours: *3 hrs.*

The central American heritage issues of freedom and equality of opportunity, the development of freedom of speech, press, religion, guarantees of assembly and petition, civil rights, women's rights, and affirmative action.

Department: History, Philosophy and Political Science

Political Science - Global Politics (Non-U.S.)

POL 5000 - Clash of Political Ideas: Introduction to Political Theory

3 Credit(s) Hours: *3 hrs.*

Selected major political philosophers from Plato to Machiavelli from Locke and Rousseau to Hegel and Marx. What are the bases for political leadership, political obligation, majority rule and minority rights?

Flexible Core: Individual and Society (Group D)

Department: History, Philosophy and Political Science

POL 5200 - Introduction to Comparative Government

3 Credit(s) Hours: *3 hrs.*

An introduction to the major types of political systems in the world. Uses both qualitative and quantitative analysis to study the role of ideology, economics, elite groups, and political institutions. Covers Western and non-Western systems, with emphasis on Britain, Germany, the U.S., China, Nigeria, and selected other countries.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

POL 5700 - Introduction to Political Economy

3 Credit(s) Hours: *3 hrs.*

Political economy within a social, political and historical context and the problems of recession, inflation and resource insufficiency. "Getting and spending" and their concomitant politico-economic costs and benefits are dealt with in discussions and readings which are institutionally oriented rather than theoretically contrived. Attention is on existing and emerging public agencies and their constituencies, and on the nature of policy making and administration.

Department: History, Philosophy and Political Science

POL 5800 - Environmental Politics

3 Credit(s) Hours: *3 hrs.*

The nature and causes of hazards that pose threats to the global environment and the policies that have been put forth to solve these problems. The roles played by political parties, interest groups and government in shaping public policy on the state, national and international levels are also examined.

Department: History, Philosophy and Political Science

POL 5900 - Introduction to International Relations

3 Credit(s) Hours: *3 hrs.*

Exploration of concepts and issues in international relations with an emphasis on state power, sovereignty, nationalism, colonialism, and the role of international law and organizations in the maintenance of order and security. Course includes analysis of globalization, the world economy, transnational actors, human rights, and the environment.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

POL 7500 - Gender and Politics

3 Credit(s) Hours: *3 hrs.*

The exploration of women's political representation worldwide with an emphasis on female politicians in the United States. The ways in which political life is gendered and multiple explanations for women's political underrepresentation are also explored. The roles women play in politics as voters, activists, candidates, and elected officials are examined.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

POL 9300 - Global Politics

3 Credit(s) Hours: *3 hrs.*

This course introduces students to central issues facing the global community including war, terrorism, security, poverty, the environment, human rights, international organizations, gender issues, inequality, the global economy and international law.

Flexible Core: World Cultures and Global Issues (Group A)

Department: History, Philosophy and Political Science

Political Science - Non-Designated

For Independent Studies and Topical/Pilot courses, content will determine if the course is deemed as U.S Politics or Global Politics.

POL 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of political science is developed individually between student and faculty member and must be approved by the Department.

Department: History, Philosophy and Political Science

POL 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: History, Philosophy and Political Science

Polysomnographic Technology

PSG 100 - The Science of Sleep and Circadian Rhythms

3 Credit(s) Hours: *3 hrs.*

This course is designed to provide students with the biological basis for clinical sleep and circadian rhythms disorders. Students will be introduced to the history of sleep research, and current theories regarding how and why we sleep. Daily biological rhythms and their relationship to sleep and wake states will also be investigated in this course.

This course is intended for students planning on applying to the Polysomnographic Technology, AAS.

Prerequisite(s)/Corequisite(s): ENG 1200, BIO 1100, and MAT 9010 or MAT 9B0 or MAT 900

Department: Allied Health, Mental Health and Human Services

PSG 101 - Neuroscience and Pharmacology in Sleep

4 Credit(s) Hours: *4 hrs.*

This course will inform students of the neurological basis of sleep. The anatomical brain regions responsible for sleep and waking, as well as endogenous neurochemicals modulating sleep and wake will be discussed. In the second half of this course, the effects of pharmacological compounds on sleep architecture are described.

Prerequisite(s): PSG 100

Corequisite(s): PSG 102 and PSG 106

Prerequisite(s)/Corequisite(s): BIO 1200

Department: Allied Health, Mental Health and Human Services

PSG 102 - Foundations of Polysomnography I

3 Credit(s) Hours: *4 hrs.*

In this course students will be taught the basic skills required to perform a clinical sleep study, including electrode placement using the international 10-20 system and how to use respiratory belts, pressure transducers, thermistors, pulse-oximetry, end tidal capnography, and electromyography during a sleep recording. Use of polysomnographic equipment, including amplifier settings, inputting patient data, and setting up basic recording montages, is also covered.

Prerequisite(s): PSG 100

Corequisite(s): PSG 101 and PSG 106

Department: Allied Health, Mental Health and Human Services

PSG 103 - Clinical Practicum in Sleep Medicine I

6 Credit(s) Hours: *24 hrs.*

Students will be placed in an active clinical sleep laboratory for the entire semester. One night per week the student will observe a registered polysomnographic technician at work. As the student becomes familiar with the workings of the laboratory, they will begin preparing patients for nighttime sleep studies, and will learn how to monitor patients during the night.

Prerequisite(s): PSG 101, PSG 102, PSG 106, **and** MAT 9010 **or** MAT 9B0 **or** MAT 900, **and** MAT 2010 **or** MAT 20B0 **or** MAT 2000, BLS certification, and medical clearance from the internship site

Corequisite(s): PSG 104 and PSG 105

Department: Allied Health, Mental Health and Human Services

PSG 104 - Foundations of Polysomnography II

3 Credit(s) Hours: *4 hrs.*

Advanced topics for clinical sleep recordings will be covered in this course, including how to perform Multiple Sleep Latency (MSLT) and Maintenance of Wakefulness (MWT) testing and montages for special patient populations such as for seizure, REM behavior disorder, bruxism, and pediatrics. Identification of both physiological and non-physiological electrical artifact commonly seen while performing polysomnography, as well as advanced trouble shooting of technical equipment will also be covered.

Prerequisite(s): PSG 101, PSG 102 and PSG 106

Corequisite(s): PSG 103 and PSG 105

Department: Allied Health, Mental Health and Human Services

PSG 105 - Clinical Polysomnographic Scoring

3 Credit(s) Hours: *4 hrs.*

Students will learn to define sleep stages, respiratory events, periodic limb movements, seizures, bruxism, and EKG arrhythmias from electrophysiological data obtain during a polysomnographic recording. At the end of this course, students should be able to properly score a polysomnographic based on the criteria described in the American Academy of Sleep Medicine Manual for the Scoring of Sleep and Associated Events.

Prerequisite(s): PSG 101, PSG 102 and PSG 106

Corequisite(s): PSG 103 and PSG 104

Department: Allied Health, Mental Health and Human Services

PSG 106 - Classification of Sleep Disorders

3 Credit(s) Hours: *3 hrs.*

The focus of this course is to give students a complete understanding of the nosology of clinical sleep and circadian rhythms disorders from the perspective of the International Classification of Sleep Disorders Diagnostic & Coding Manual. Upon completion of this course, students should know the diagnostic criteria of all major sleep and circadian rhythm disorders.

Prerequisite(s): PSG 100

Corequisite(s): PSG 101 and PSG 102

Department: Allied Health, Mental Health and Human Services

PSG 107 - Cardiopulmonary Physiology in Sleep

3 Credit(s) Hours: *3 hrs.*

The physiology of normal respiratory function during sleep, as well as our current understanding of the pathophysiology of obstructive and central apneas during sleep is described. Acute and long-term consequences of sleep apnea, as well as cardiac function and dysfunction with a specific focus on arrhythmias commonly associated with sleep-disordered breathing is investigated.

Prerequisite(s): PSG 103, PSG 104, and PSG 105

Corequisite(s): PSG 108

Department: Allied Health, Mental Health and Human Services

PSG 108 - Clinical Practicum in Sleep Medicine II

6 Credit(s) Hours: *24 hrs.*

As in the Clinical Practicum in Sleep Medicine I, students in this course will spend a semester observing and working in a clinical sleep laboratory. During this semester students will focus on learning to titrate patients with positive airway pressure machines including CPAP, BiPAP and ASV. Titration of supplemental oxygen will also be taught. Real time obstructive and central sleep apnea and hypopnea, and EKG arrhythmia detection will be an area of particular focus. Students will also gain experience performing MSLT and MWT testing.

Prerequisite(s): PSG 103, PSG 104, PSG 105, and medical clearance from internship site

Corequisite(s): PSG 107

Department: Allied Health, Mental Health and Human Services

Psychology

PSY 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of psychology is developed individually between student and faculty member and must be approved by the Department.

Department: Behavioral Sciences

PSY 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Behavioral Sciences

PSY 1100 - General Psychology

3 Credit(s) Hours: *3 hrs.*

Introduction to psychology as a science. Topics covered in this survey course include: historical background, fields and divisions, scientific methods, biological underpinnings of thought and behavior, learning and memory.

Flexible Core: Scientific World (Group E)

Department: Behavioral Sciences

PSY 2400 - Psychological Disorders in Young Children

3 Credit(s) Hours: *3 hrs.*

Psychological disorders in young children and the practices required to deal with them in educational settings. The problems and needs of children with behavioral, emotional, intellectual, developmental and sensory disabilities are studied. The causes, diagnostic, therapeutic and educational interventions with teaching methods are reviewed for each category based upon principles learned in introductory psychology.

New York State mandated two-hour session on recognizing and reporting child abuse is included.

Prerequisite(s): PSY 1100

Department: Behavioral Sciences

PSY 2800 - Contemporary Psychological Viewpoints

3 Credit(s) Hours: *3 hrs.*

Trends in contemporary psychological theories, including the shift from psychology as a natural science to a human science. The roles of evolutionary psychology, cognitive constructivism, and feminist theories and their historical and cultural contexts as they affect human consciousness.

Prerequisite(s): PSY 1100

Department: Behavioral Sciences

PSY 3000 - Child and Adolescent Development

3 Credit(s) Hours: *3 hrs.*

Human growth and development from conception through adolescence, including physical, cognitive and psycho-social domains. The effects on development of culture, ethnicity, race, gender, sexual orientation, socioeconomic status and disability will be examined.

Not open to students who have completed PSY 3200.

Prerequisite(s): PSY 1100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

PSY 3200 - Human Growth and Development

3 Credit(s) Hours: *3 hrs.*

Human development from infancy through childhood, adolescence, and adulthood. Intellectual growth, personal and social adjustment, the relationship between physical and mental development, and typical problems in various stages of the life-cycle.

Not open to students who have completed PSY 3000.

Prerequisite(s): PSY 1100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

PSY 3300 - Social Psychology

3 Credit(s) Hours: *3 hrs.*

Social psychology is the study of the effect of others (real, imagined, and perceived) on individuals' thoughts, feelings, and behaviors. Topics will include the science of social psychology, social cognition, self and identity, social perception, attitudes, persuasion, social influence, group dynamics, stereotypes, prejudice, discrimination, aggression, prosocial behaviors, attraction and close relationships, and applications of social psychology to health, law, and business. All learning outcomes for a traditional social psychology course will be satisfied.

Prerequisite(s): PSY 1100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

PSY 3400 - Psychology of Personality

3 Credit(s) Hours: *3 hrs.*

An examination of the phenomenon of personality including psychodynamic, social-cognitive, and contemporary neurobiological perspectives. Topics include personality development, typology, pathology, growth, and the construction of meaning.

Prerequisite(s): PSY 1100

Department: Behavioral Sciences

PSY 3500 - Educational Psychology

3 Credit(s) Hours: *3 hrs.*

Current scientific theory and research relating to formal learning environments including: process of human learning, concept-formation, language affecting acquisition and retention, new approaches to motivate and direct learning, new methods of organizing and transmitting information and knowledge.

Prerequisite(s): PSY 1100

Department: Behavioral Sciences

PSY 3600 - Abnormal Psychology

3 Credit(s) Hours: *3 hrs.*

Concepts of normality and abnormality, and significant theoretical contributions to personality disorganization. Historical factors and current trends in the field of Mental Health and causes of behavioral disorders are discussed in terms of the impact of social, cultural, genetic and other factors. Survey of treatment methods included.

Prerequisite(s): PSY 1100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

PSY 3700 - Psychology of Gender

3 Credit(s) Hours: *3 hrs.*

Study of psychological factors specifically related to women and men, including traditional and current models of femininity and masculinity in social, occupational, and sex roles. There will be a focus on current and historical controversial issues in men's and women's lives, with discussion about the nature and development of gender roles, relationships and sexuality, and stereotypes about gender and behavior specifically. Male and female student experiences will be used to address the ways in which gender is constructed in our society. Students will be encouraged to engage in self-reflection and critical thinking to help support, or refute, theories presented.

Prerequisite(s): PSY 1100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

PSY 4100 - The Psychology of Immigration

3 Credit(s) Hours: *3 hrs.*

This course examines the psychological impact of immigration and how immigrants navigate in American society. This course will provide students with a brief overview of our postcolonial history, cultural genocide in residential schools, the problem with the Model Minority Myth, developmental problems in satellite babies, stigma of mental illness among immigrant communities, the role of culture and food, living as migrant workers, the meaning of citizenship, feeling safe in an age of xenophobia, and the importance immigrants supporting Black Lives Matter movement. Students who take this course will have a better understanding of the role of immigration and the lived experiences of immigrants, become more civically engaged in their communities, and be more culturally competent.

Prerequisite(s): PSY 1100

Department: Behavioral Sciences

PSY 4200 - Psychology and Political Activism

3 Credit(s) Hours: *3 hrs.*

In recent years, multiple crises - political, economic, public health, and climate - have led to the reemergence of mass protests and social movements in the U.S. and around the world. This activism has won reforms and shifted public consciousness, suggesting even bigger changes to come. To better understand these processes and how we might contribute to them, this course examines the connection between psychology and political activism. We will ground our work in developmental and social psychological theories on the connection between mind and society. Then we will apply these theories to illuminate political and psychological experiences of oppression, alienation, solidarity, and liberation. We will explore how powerful social movements can transform the implicit and explicit attitudes of participants, supporters, and even opponents. We will connect psychological phenomena to political struggles for racial justice, economic equality, women's and LGBT equality, disability rights, educational justice, and workers' power. We will act by engaging our campus, communities, and New York City through an activist psychological lens.

Prerequisite(s): PSY 1100

Department: Behavioral Sciences

Retail Merchandising

RM 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of retail merchandising is developed individually between student and faculty member and must be approved by the Department.

Department: Business

RM 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interest of various student populations. It is offered for a maximum of two semesters.

Department: Business

RM 3000 - Consumer Behavior

3 Credit(s) Hours: *3 hrs.*

The buying process of consumers and their behavior variables, how to understand peoples' wants and assess the influence consumer groups (government, households and business) have on each other and society.

Prerequisite(s): BA 1100

Department: Business

RM 3100 - Elements of Retail Management

3 Credit(s) Hours: 3

Introduction to management techniques considered essential to the planning, organization, control and operation of retail establishments. The fundamentals underlying modern merchandising practices, recent developments in trading area analysis, shopping centers, consumer relations, warehousing, transportation, stock control, and data processing. Retail case studies and field trips.

Now listed as BF 3100

Department: Business

RM 3300 - Salesmanship

3 Credit(s) Hours: 3

Principles of selling based on modern marketing concepts. Consumer needs and desires combined with company objectives, contributions of the behavioral sciences to the study of consumer behavior and buying patterns, organization and control of wholesale, industrial, and retail sales.

Now listed as BF 3300.

Department: Business

RM 3400 - Merchandising Planning and Control

3 Credit(s) Hours: 3

Basic merchandising principles to understand the principles of good merchandise planning and decision-making. Students acquire the ability to adjust to continually changing conditions in the retailing environment. Topics include stock planning, market evaluation, fashion forecasting and pricing.

Now listed as BF 3400.

Prerequisite(s): BF 3100 or RM 3100

Department: Business

RM 9229 - Field Experience in Retail Merchandising

3 Credit(s) Hours: 9 hrs.

A capstone course for Retail Merchandising majors. Eight (8) hours per week of supervised field experience in fashion or marketing management, plus one (1) hour seminar a week devoted to developing strategies for personal and career success.

Now listed as BF 9229 - Field Experience in the Business of Fashion.

Prerequisite(s): For Retail Merchandising seniors only.

Department: Business

Science

SCI 2500 - Applied Physical Sciences for Allied Health Careers

3 Credit(s) Hours: 5 hrs.

Lecture and laboratory course on chemistry and physics topics with direct bearing on health services.

Includes: mechanics, electricity, optics, atomic energy, radioactivity, atomic structure, chemical bonding, chemical equations, behavior of gases, respiration and oxygen therapy, properties of liquids and solutions including hydrostatics and hydrodynamics, acids and bases, plus an introduction to organic and biochemistry and drug calculations.

Student must complete SCI 2500 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): Passed, exempt, or completed developmental course work for the CUNY Assessment Tests in Reading, Writing, and ACCUPLACER CUNY Assessment Test in Math. Open only to students in the Pre-Clinical Nursing Plan

Department: Physical Sciences

SCI 3700 - Developments in the Physical Sciences (with Laboratory)

3 Credit(s) Hours: 5 hrs. (1 hr. lecture, 4 hrs. laboratory)

Basic concepts in the physical sciences and their applications in today's technologically advanced world are presented. The impact that modern technology has on our physical environment is examined. Selected topics include: pollution, ozone layer depletion, global climate change, pesticides and chemicals in food, energy sources (renewable and non-renewable), and medical and military applications of technology.

Students will engage in science through application of the methods of science (e.g. empirical, experimental and scientific method). Students will develop the ability to formulate strong, logical, science-based arguments, evaluate and discuss environmental issues, and test hypotheses to improve problem solving skills.

Student must complete SCI 3700 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): CUNY English and Math Proficient or Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Flexible Core: Scientific World (Group E)

Department: Physical Sciences

SCI 5100 - Physical Sciences and the Environment (with Laboratory)

3 Credit(s) Hours: 5 hrs. (1 hr. lecture, 4 hrs. laboratory)

An investigation of important topics that involve the state of the environment from a scientific perspective. This course will cover topics that include global warming, stratospheric ozone depletion, acid rain, the carbon and nitrogen cycles, chemical and industrial pollution, the impact of fossil fuels, nuclear energy, and treatment. The gathering, analysis, interpretation, and presentation of scientific data. The measure of selected physical, chemical and geological properties that influence the structure and function of ecological systems. Selected standard techniques used to observe, sample and describe natural systems.

Student must complete SCI 5100 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Flexible Core: Flexible Core: Scientific World (Group E)

Department: Physical Sciences

SCI 7000 - The Science of Nutrition (with Laboratory)

3 Credit(s) Hours: 5 hrs. (1 hr. lecture, 4 hrs. laboratory)

Learn and measure the physical and chemical properties that influence the structure and function of the chemical properties that influence the structure and function of nutritional systems. Gain experience with practical applications of nutritional science. Practice the gathering, analysis, interpretation, and presentation of scientific data. Learn standard techniques used to observe, sample and describe natural systems

Student must complete SCI 7000 Laboratory - Initial Student Safety Instruction & Certification prior to the first laboratory meeting. See Department of Physical Sciences website Chemistry Laboratory Safety section for information.

Prerequisite(s): CUNY English and Math Proficient **or** Department Permission

Required Core: Life and Physical Sciences

Department: Physical Sciences

SCI 9201 - Research I

1-3 Credit(s) Hours: 2-6 hrs. laboratory

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Prerequisite(s): Department Permission

Department: Physical Sciences

SCI 9202 - Research II

1-3 Credit(s) Hours: 2-6 *hrs. laboratory*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Prerequisite(s): Department Permission

Department: Physical Sciences

SCI 9203 - Research III

1-3 Credit(s) Hours: 2-6 *hrs. laboratory*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Prerequisite(s): Department Permission

Department: Physical Sciences

SCI 9204 - Research IV

1-3 Credit(s) Hours: 2-6 *hrs. laboratory*

Planning and carrying out a undergraduate research project under supervision of a faculty member including literature readings, laboratory work, conferences with faculty member, and presentation of research results.

Department: Physical Sciences

Science: College Now

SCI 100 - Issues and Adventures in Science

3 Credit(s) Hours: 3 *hrs.*

The most recent and important discoveries in the biological and physical sciences are presented, observed, discussed, and experimented with, to acquaint students with the world around them. Brain research, studies of aging, disease, fertility, immunity, and the origin of life are explored. Studies emphasize relations to mankind's place in the universe, self-explorations and technological achievements.

Prerequisite(s): Enrollment in "College Now" Program

Flexible Core: Scientific World (Group E)

Department: Physical Sciences

Sociology

SOC 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of sociology is developed individually between student and faculty member and must be approved by the Department.

Department: Behavioral Sciences

SOC 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Behavioral Sciences

SOC 3100 - Introduction to Sociology

3 Credit(s) Hours: *3 hrs.*

An introduction to the scientific study of society and social interactions. This course covers social theories, methods, culture, deviance, social inequities (including race, class, and gender) and social situations (such as the family, education, and religion). Students learn to analyze, evaluate, and critique social structures and to understand social change.

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

SOC 3200 - Urban Sociology

3 Credit(s) Hours: *3 hrs.*

The origin of the world's cities, industrialization and the global spread of cities, post-industrial cities and cities of the future. Urban research methods. The development and contemporary life of multicultural American cities.

Prerequisite(s): SOC 3100 or ANT 3700

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: Behavioral Sciences

SOC 3300 - Social Problems: Institutions in Crisis

3 Credit(s) Hours: *3 hrs.*

Focusing on problems whose origins lie outside the individual and how their effects are reflected in the behavior of individuals and the institutions of society. Students will explore problems relating to health care, education, criminal justice, inequality, etc.

Prerequisite(s): SOC 3100 or ANT 3700

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

SOC 3500 - Sociology of the Family

3 Credit(s) Hours: *3 hrs.*

The sociology of the family study areas include: definitions, pattern variations, developmental theories and specialized functions and their effect on socialization, courtship, marriage, divorce and the life cycle.

Prerequisite(s): SOC 3100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

SOC 3600 - Race and Ethnicity

3 Credit(s) Hours: *3 hrs.*

Selected minority groups in American society are studied. Topics discussed include: nature of prejudice and discrimination, social meaning of minority, annihilation, assimilation, competition, conflict, exploitation, social and cultural change, past and present trends and developments.

Prerequisite(s): SOC 3100

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: Behavioral Sciences

SOC 3800 - Sociology of Gender

3 Credit(s) Hours: *3 hrs.*

An exploration of the ways people construct gender and how gender structures our everyday lives and society in general. Issues that are covered include: how gender is produced, the relationship of gender to biology, gender and sexuality, the social evolution of gender, the gendered division of labor in the home and the workforce, gender and religion, micro politics of gender and race, class and gender as intertwined systems of inequality.

Prerequisite(s): SOC 3100

Flexible Core: Individual and Society (Group D)

Department: Behavioral Sciences

SOC 3900 - The Sociology of Religion

3 Credit(s) Hours: *3 hrs.*

Introduction to the study of religion and society, basic definitions and concepts, methods, organizational structures, secularization, church-state, immigration and multi-cultural environments, interactive effects with socioeconomic status, ethnicity and gender.

Prerequisite(s): SOC 3100 or PSY 1100 or ANT 3700

Flexible Core: World Cultures and Global Issues (Group A)

Department: Behavioral Sciences

SOC 4100 - Urban Policy Analysis

3 Credit(s) Hours: *3 hrs.*

This class will introduce students to the process of public policy analysis. Public policy is an interdisciplinary field which draws from Sociology, Political Science, Economics, and other related social sciences to guide policy decisions on the local, national, and transnational levels. Students will learn how to examine real urban policy problems in a case study format, then apply potential policy solutions/alternatives to eliminate or lessen these problems. Student will also learn about the functions of major policy institutions, and the impact of urban policy decisions on their lives, by exploring problems in the fields of Education, Health, Housing, Food Systems and Public Policy.

Prerequisite(s): SOC 3100

Department: Behavioral Sciences

SOC 4200 - Introduction to Criminology

3 Credit(s) Hours: *3 hrs.*

This course is designed as an engaging and informative intellectual discourse. Criminology is a multidisciplinary field that comprehensively understands crimes, their causes, and the criminal justice system. The course will allow students to develop critical thinking skills to unpack contemporary challenges relating to crime, victimization, and crime prevention within the framework of criminological theories. In addition, you will engage in evidence-based knowledge and insights that can directly inform criminal justice, decision-making, and policies.

Prerequisite(s)/Corequisite(s): SOC 3100

Department: Behavioral Sciences

SOC 6500 - Introduction to Law and Society

3 Credit(s) Hours: *3 hrs.*

This course introduces students to the ways that people attempt to use law for social and political change, as well as how social and political forces affect the content of law and access to it. Using a variety of approaches, the course covers issues such as how people understand law and how law both limits and empowers people politically.

Prerequisite(s): SOC 3100

Department: Behavioral Sciences

Spanish

SPA 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of Spanish is developed individually between student and faculty member and must be approved by the Department.

Department: Communications and Performing Arts

SPA 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

SPA 100 - Elementary Spanish I

3 Credit(s) Hours: *3 hrs.*

For students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis on correct pronunciation through intensive oral practice, use of language laboratory and audio-visual materials, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

Not open to native speakers.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

SPA 200 - Elementary Spanish II

3 Credit(s) Hours: *3 hrs.*

Further development language skills, comprehension, speaking, reading and writing.

Prerequisite(s): SPA 100 or acceptable Language Placement Examination score

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

SPA 300 - Intermediate Spanish

3 Credit(s) Hours: *3 hrs.*

Progressive development of language skills, based on foundations established in elementary Spanish. Grammar review is supplemented by readings of modern Spanish literature.

Prerequisite(s): SPA 200 or acceptable Language Placement Examination score

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

SPA 400 - Readings in Hispanic Literature

3 Credit(s) Hours: *3 hrs.*

Advanced grammar and composition through selected readings in Hispanic literature.

Prerequisite(s): SPA 300 or acceptable Language Placement Examination score

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

SPA 1100 - Spanish for Teachers I

4 Credit(s) Hours: *4 hrs.*

Teachers are introduced to Spanish language fundamentals. Development of basic conversational ability, grammar patterns, understanding writing and reading through intensive practice in the classroom.

Language lab drills use computer software, audio-visual and musical materials. Different approaches for teaching Spanish to children.

Open to teachers only or Department permission.

Department: Communications and Performing Arts

SPA 1200 - Spanish for Teachers II

4 Credit(s) Hours: *4 hrs.*

Further development of Spanish language skills for teachers includes: study of basic grammatical patterns, development and acquisition of new vocabulary, ample utilization of language lab and classroom drills, use of computer software, and audio-visual and musical materials. Various approaches for teaching Spanish to children.

Open to teachers only or Department permission.

Prerequisite(s): SPA 1100 or equivalent

Department: Communications and Performing Arts

SPA 1700 - Intensive Review of Spanish Grammar

3 Credit(s) Hours: *4 hrs.*

For students who have had three or more years of high school Spanish but have not studied the language for a substantial period of time, or for Spanish native speakers with limited formal training in the language.

Prerequisite(s): Acceptable Language Placement Examination score

Department: Communications and Performing Arts

SPA 1800 - Proper Models of Spanish Grammar and Conversation for Native Speakers

3 Credit(s) Hours: 3 hrs.

For Spanish-speaking students, stress on improvement of reading and writing skills.

Prerequisite(s): Native conversational ability, acceptable Language Placement Examination score, and Department permission

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

SPA 2200 - Elementary Spanish Conversation

3 Credit(s) Hours: 3 hrs.

Basic conversational skills for students who wish to use the Spanish language to communicate with Spanish speaking people.

Prerequisite(s): SPA 200 or three years of high school Spanish or Department permission

Department: Communications and Performing Arts

SPA 3000 - Readings in Peninsular Spanish Literature in Translation

3 Credit(s) Hours: 3 hrs.

A study, analysis and discussion of the most outstanding literary productions of Spain, from the Middle Ages to contemporary texts.

The course will be taught entirely in English.

Prerequisite(s)/Corequisite(s): ENG 1200

Department: Communications and Performing Arts

SPA 3100 - Readings in Spanish-American Literature in Translation

3 Credit(s) Hours: 3 hrs.

For students who wish to explore the high points of Spanish-American literature.

Instruction is entirely in English.

Open to all students.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

SPA 3300 - Intermediate Spanish Conversation

3 Credit(s) Hours: 3 hrs.

Intensive practice in spoken Spanish for students who wish to use the language to communicate with Spanish speaking people and students of Spanish in familiar situations.

Prerequisite(s): SPA 200 and SPA 2200 or Department permission

Department: Communications and Performing Arts

SPA 3400 - Spanish America: Culture, Art and Music

3 Credit(s) Hours: 3 hrs.

Outstanding facets of Spanish-American culture, includes all important historic, political, literary and artistic movements, individuals, ideas and periods. Grammar, literature and composition emphasized through reading selected representative authors and works of each period.

Instruction is in both Spanish and English.

Prerequisite(s): SPA 400 or SPA 1800 or Department permission

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

SPA 3500 - The Contemporary Latin American Short Story

3 Credit(s) Hours: 3 hrs.

A study of contemporary Latin American culture as revealed in the short story genre. Examining texts in translation will reveal the elements in the writing which combine to create their particular qualities.

The course will be taught entirely in English.

Prerequisite(s): ENG 1200

Department: Communications and Performing Arts

SPA 3600 - Spanish Syntax and Composition

3 Credit(s) Hours: 3 hrs.

To improve and reinforce student skills, orthography, vocabulary, syntax, analytical writing and stylistics are stressed.

Prerequisite(s): SPA 1800 or acceptable Language Placement Examination score

Department: Communications and Performing Arts

SPA 4400 - Advanced Spanish Conversation

3 Credit(s) Hours: 3 hrs.

For students who wish to speak fluently and correctly in current idiom. Intensive practice and group discussions on general and cultural topics. Through study of selected short fiction, brief plays and journalistic materials from well-known authors, students enlarge vocabulary, knowledge of native idiomatic expressions and literary concept.

Prerequisite(s): SPA 300 or Department permission

Department: Communications and Performing Arts

SPA 5300 - Spanish-American Literature

3 Credit(s) Hours: 3 hrs.

Survey of the significant literary production of Spanish America from colonial beginnings to the present, with special attention to major authors of the 20th century.

Instruction is in Spanish.

Prerequisite(s): SPA 400 or equivalent or Department permission

Department: Communications and Performing

SPA 5500 - History and Civilization of Spain

3 Credit(s) Hours: 3 hrs.

Chronological study of major Spanish historical trends and developments to the present. Political, literary and artistic movements, highlight important individuals, ideas and periods are examined as selected texts representative of each period are read.

Instruction is in Spanish and English.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

SPA 7000 - Spanish Cinema

3 Credit(s) Hours: 3 hrs.

Study of the best films and film scripts in the Spanish cinema. Instruction is in English with a view toward developing appreciation of the history, art and aesthetics of the Spanish cinema and increasing Spanish language experience.

Department: Communications and Performing Arts

SPA 7100 - Puerto Rican Folklore

3 Credit(s) Hours: 3 hrs.

Study of folkloric compositions of the Puerto Rican people in all forms - literary, musical, superstitions, etc., their sources and formation as influenced by all three cultural groups in Puerto Rican history: Indian, Spanish, and Black, and how they influence the Puerto Rican of today.

Instruction is in Spanish and English.

Department: Communications and Performing Arts

SPA 7400 - Latin American Cinema

3 Credit(s) Hours: 3 hrs.

Exploration of the culture of Latin America through film. All films are subtitled in English.

The course will be taught entirely in English.

Department: Communications and Performing Arts

Speech

SPE 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of speech communication is developed individually between the student and faculty member and must be approved by the Department.

Prerequisite(s): Speech Communication Major in last year of study and permission of Program Director.

Department: Communications and Performing Arts

SPE 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters

Department: Communications and Performing Arts

SPE 1000 - Survey of Communication

3 Credit(s) Hours: *3 hrs.*

An introductory survey of the principles, concepts, theories, models, and methods that define the study of communication. Attention is given to the history of the field, verbal and nonverbal communication, communication research, and research methods. Students will examine the field in a variety of contexts, including interpersonal, organizational, public, intercultural, and mediated communication.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

SPE 1100 - Basic Communication Skills and Practice

3 Credit(s) Hours: *3 hrs.*

An introductory course in listening and speaking including the basics of human communication, verbal and nonverbal communication, and elements of listening with an emphasis on critical listening. Students will develop and deliver several presentations as well as evaluate the presentations of their peers

Prerequisite(s): Not open to students at ENG 2400 level.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

SPE 1200 - Interpersonal Communication

3 Credit(s) Hours: *3 hrs.*

The communicator's development of self-concepts, ability to understand and project a comfortable and confident self-image. Methods to improve and use this knowledge when interacting and communicating with other individuals and with groups.

Flexible Core: Individual and Society (Group D)

Department: Communications and Performing Arts

SPE 1600 - Survey of Speech, Language and Hearing Disorders

3 Credit(s) Hours: *3 hrs.*

A survey of speech, language and hearing disorders. Students gain an understanding of communication disorders and their effects on those with the disorders.

Department: Communications and Performing Arts

SPE 1700 - Introduction to Linguistics

4 Credit(s) Hours: *4 hrs.*

Introduction to the scientific study of language, including the analysis of word, sentence, and sound structure. This survey course presents some of the major areas of the formal study of linguistics, including morphology, phonetics, phonology, syntax and semantics. In addition, this course introduces the applied fields of language acquisition and sociolinguistics.

Department: Communications and Performing Arts

SPE 1800 - Health Communication

3 Credit(s) Hours: *3 hrs.*

Health communication is a field of study that encompasses theories, research, and applications of the symbolic processes by which people, both individually and collectively, understand, share ideas about, and accommodate to health and illness. This course is designed to introduce students to a wide range of scholarship in health communication beginning with a basic introduction to the field of health communication and then moving through the key topics, definitions, theories and perspectives. The course will examine how individuals' health behavior is framed by the contexts and modes in which we communicate including narratives, individual, interpersonal, art, organizational, community, media, cultural and public policies. Students will learn the basics of clear, purposeful and compassionate communication across multiple channels, strengthening their health literacy skills and by becoming more informed health citizens.

Flexible Core: Individual and Society (Group D)

Department: Communications and Performing Arts

SPE 1900 - Family Communication

3 Credit(s) Hours: *3 hrs.*

Family provides some of our first communication experiences, it can shape our communication perspectives, and it also presents us with communication challenges. This course explores the communication processes and functions of the family with focus on key family communication and relationship experiences (e.g., sibling relationships, power dynamics, family stories/identity, illness/crisis, marriage, divorce, negotiating gender, culture, and sexuality). The concept of family is continually evolving so this course will use diverse, practical, and critical perspectives informed by current scholarship for thinking through issues related to family

Flexible Core: Individual and Society (Group D)

Department: Communications and Performing Arts

SPE 2100 - Effective Public Speaking

3 Credit(s) Hours: *3 hrs.*

The basic elements for clear and effective public speaking. Practice and study in skills such as organizing information, researching and outlining speeches, developing ideas for a particular audience, using media for clarification and amplification of ideas, and speaking extemporaneously. Students will review the history of public speaking, analyze speeches and bring together all basic elements of public speaking through their own presentation of formal and informal speeches to inform and persuade.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

SPE 2400 - Career Communication

3 Credit(s) Hours: *3 hrs.*

Communication skills used most frequently in the professions, business and industry. Speaking logically and expressing ideas creatively. Theories of interpersonal communication and practice in such speaking situations as job interviews, small group presentations, business meetings, conferences and platform speaking, use of clear and acceptable speech.

Department: Communications and Performing Arts

SPE 2500 - Small Group Communication

3 Credit(s) Hours: *3 hrs.*

Principles and techniques of group interaction. Conference leadership and participation skills are learned through reading, discussion, practice, observation and evaluation of group discussions. Focus is on how learned concepts may be applied to educational, social and business situations.

Flexible Core: Individual and Society (Group D)

Department: Communications and Performing Arts

SPE 2600 - Intercultural Communication

3 Credit(s) Hours: *3 hrs.*

How culture shapes the communication process, similarities and differences in cultural representations, linguistic practices, non-verbal communication, and societal norms and meanings. Acquiring competence in intercultural communication settings is emphasized.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

SPE 2700 - Oral Interpretation

3 Credit(s) Hours: *3 hrs.*

Students learn to recreate and communicate what writers and poets say in various types of literature. Through guided preparation, analysis, presentation and evaluation of individual readings of material ranging from simple reports to poetry, practical skill and enjoyment in reading aloud is developed.

Recommended to Performing Arts and Radio Broadcasting students.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

SPE 2900 - Voice and Articulation

3 Credit(s) Hours: *3 hrs.*

A course designed for students who wish to learn about the theory of voice production and the formation of the sounds of speech as illustrated by English varieties and other languages. This course is particularly useful if you are interested in becoming a speech language pathologist, language teacher, linguist, speech scientist (developing software for speech recognition and synthesis), or speech coach.

Department: Communications and Performing Arts

SPE 4000 - Phonetics

4 Credit(s) Hours: *4 hrs.*

Introduction to different aspects of phonetics and their relationship to language. The sounds of English and the International Phonetic Alphabet which symbolizes those sounds will be included. Theoretical foundations of phonetics will be explored as they relate to normal and abnormal language development as well as speech correction and improvement.

Department: Communications and Performing Arts

SPE 4100 - Language Development

3 Credit(s) Hours: *3 hrs.*

An understanding of normal language development including issues of speech and hearing. Aspects of second language development as it relates to first language acquisition will be included. Language development will be discussed as it relates to motor, perceptual, cognitive, emotional and social issues.

Department: Communications and Performing Arts

Student Development

SD 1000 - Freshman Seminar

1 Credit(s) Hours: *1 hr.*

This freshman seminar course assists incoming students in their college transition, facilitates interactive learning, and helps to develop knowledge and skills important for attaining academic success. In order to provide students with an opportunity to develop personally, academically, and socially, the course addresses the topics of learning styles, skills for academic success such as note taking and time management, career exploration, academic policies and procedures, information literacy and diversity. Students are encouraged to think critically, to develop an academic plan, and to learn outside of the classroom through out-of-class experience events such as slam poetry, yoga, and cultural diversity workshops. The class also promotes the development of a strong bond between students and their instructor as well as with the college community. This course supports Learning Communities.

Department: Student Affairs

SD 1100 - Career and Life Planning

1 Credit(s) Hours: *1 hr.*

Students have an opportunity to explore careers with emphasis on their interests, abilities, aptitudes and college experiences. They learn how to plan for future work and leisure time. Topics include the nature of work, contemporary changes in careers and work ethic, self-assessment, jobs, and changing lifestyles. Current labor market information is introduced followed by intensive, individual research and exploration of occupations. Instruction and practical assignments explore the dynamics and techniques of job-seeking, decision-making, goal-planning and priority-setting.

Department: Student Affairs

SD 1200 - Strategies for College Success

1 Credit(s) Hours: *1 hr.*

This course examines typical problems encountered in college and the strategies to overcome these difficulties. It offers an assessment of personal academic strengths and weaknesses and an examination of the internal and external barriers to academic success. Students are assigned a counselor/advisor to explore issues that often correspond to the course curriculum.

Department: Student Affairs

Substance Abuse & Alcoholism Counseling

SAC 91A0 - Substance Abuse Counseling - Field Internship I

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab) 11 hrs./wk. for 10 weeks*

This is Part I of the final course in the CASAC credentialing sequence. All students in this class are interning in a New York State-Office of Addiction Supports and Services (NYS-OASAS) licensed facility for two-days weekly (12 hours). Students participate in counseling activities with program clients, group observations, co-facilitation, interdisciplinary treatment team and supervision meetings, and other professional activities at NYS licensed treatment agencies under the supervision of both program staff and college faculty. Students may also participate in group supervision that reinforces the core competencies and integration of the classroom and field internship content. Emphasis is placed on ethical, professional comportment and clinical skills development.

Prerequisite(s): SAC 2000, SAC 2200, and SAC 2600

Department: Allied Health, Mental Health and Human Services

SAC 91B0 - Substance Abuse Counseling - Field Internship II

3 Credit(s) Hours: *10 hrs./wk. for 5 weeks*

This is Part II of the final course in the CASAC credentialing sequence. All students in this class are interning in a New York State-Office of Addiction Supports and Services (NYS-OASAS) licensed facility for two-days weekly (14 hours). Students participate in counseling activities with program clients, group observations, co-facilitation, interdisciplinary treatment team and supervision meetings, and other professional activities at NYS licensed treatment agencies under the supervision of both program staff and college faculty. Students also participate in classroom seminars that focus on the core competencies and integration of the classroom and field internship content. Emphasis is placed on ethical, professional comportment and clinical skills development.

Prerequisite(s): SAC 91A0 or Department permission

Prerequisite(s)/Corequisite(s): SAC 2400 and SAC 2800

Department: Allied Health, Mental Health and Human Services

SAC 2000 - Introduction to Alcoholism and Substance Abuse Counseling

3 Credit(s) Hours: *3 hrs.*

Students are provided with an overview of core concepts in chemical dependency. Students are introduced to the physiological, psychological, social/emotional, cultural, spiritual, political and economic influences on the development of substance use disorders. Basic theories, stages of chemical dependency, stages of recovery, and the continuum of services are discussed. Students also develop basic skills in identifying the signs and symptoms of the common substances of abuse, and their effects on the brain, body and behavior. Students are exposed to concepts related to the recovery oriented systems of care (ROSC), mutual/peer support and non-traditional interventions such as acupuncture.

Corequisite(s): SAC 2200

Department: Allied Health, Mental Health and Human Services

SAC 2200 - Basic Techniques in Substance Abuse Counseling I

3 Credit(s) Hours: *3 hrs.*

Students are introduced to a range of interpersonal communication techniques that are critical to engaging, assessing and overall treating the client, and to the major standardized screening and evaluation tools. Focus is placed on the practical/experiential integration of interpersonal techniques and best practices to partner with the client to conduct screenings, intakes and thorough psychosocial assessments. Students also work on developing client-centered treatment/recovery and discharge plans that prepare the client for long-term stabilization. Implementation of the treatment/recovery plan is also stressed with students getting the opportunity to simulate engaging clients from various cultural backgrounds in individual sessions. Students will learn and apply evidence-based practices including the Trans-Theoretical Model (TTM), Motivational Interviewing (MI), Motivational Enhancement Therapy (MET) and Cognitive Behavioral Therapy (CBT). Emphasis is placed on accuracy and precision in documentation.

Corequisite(s): SAC 2000

Department: Allied Health, Mental Health and Human Services

SAC 2400 - Basic Techniques in Substance Abuse Counseling II

3 Credit(s) Hours: *3 hrs.*

Students are provided with the opportunity to learn more advanced skills in counseling including developing and facilitating a group. Basic theoretical and practical foundations of group work and its application to chemical dependency is emphasized. Special issues that may arise with persons diagnosed with substance use disorders (HIV/AIDS, mental illness, mandated clients, physical challenges, cultural barriers, etc.) are covered with a focus on skill-learning and techniques to facilitate therapeutic change. Relapse prevention training and addressing vocational-educational barriers to long-term recovery are also emphasized within the context of motivational interviewing, stages of change, and other prominent relapse prevention counseling theories. Documentation of group work will be practiced, continuing the principles and techniques learned in SAC 2200.

Prerequisite(s): SAC 2000 and SAC 2200

Department: Allied Health, Mental Health and Human Services

SAC 2600 - Ethics, Confidentiality and the Counselor-Client Relationship in Substance Abuse Treatment

3 Credit(s) Hours: *3 hrs.*

The specific mandates of 42 CFR, Part II are covered as they relate to the counselor's experience in an agency setting. Recent developments in 45 CFR Parts 160 & 164, which impact the substance abuse confidentiality regulations are explored and applied to clinical practice. Confidentiality and Privacy, as it is written for HIV/AIDS patients, is incorporated. Codes of ethics that apply to CASAC counselors are discussed with an emphasis on critical thinking in the resolution of common ethical dilemmas. The counselor-client relationship with its professional and ethical responsibilities are stressed, including with regard to mandatory reporting; access to care and funding/block grant requirements; and use of new/emerging technology.

Prerequisite(s): SAC 2000 and SAC 2200

Department: Allied Health, Mental Health and Human Services

SAC 2800 - Behavioral Health Care Treatment Approaches

3 Credit(s) Hours: *3 hrs.*

The course provides an overview of the historical approach to treating addiction/behavioral health issues in the United States from the Revolutionary War to the present. The impact of the social, medical, legal and cultural climate on the public and professional view of chemical dependency is addressed. Students will critically assess the strengths and limitations of each modality with regard to the current treatment network, including with regard to its philosophical orientation, prevailing attitudes, and the roles of both professionals and recovering persons.

Prerequisite(s): SAC 2000 and SAC 2200

Department: Allied Health, Mental Health and Human Services

SAC 3000 - Compulsive Gambling: Treatment and Prevention for Substance Abuse Counselors

4 Credit(s) Hours: *4 hrs.*

Students develop an understanding of gambling as a compulsive behavior often associated with substance use disorders. The historical phenomenon of wagering and its prevalence as a societal problem is explored. Clinical counseling and professional intervention with individuals and families are stressed, including assessment, treatment planning, referral/case management, as well as family and patient education. Evidence-based principles for prevention and intervention are also explored. This course also meets the eligibility criteria for the gambling designation – CASAC-G, once other practice and supervised experience guidelines are met.

Qualification for NYS OASAS as a gambling counselor certification

Prerequisite(s): SAC 2000 and SAC 2200

Department: Allied Health, Mental Health and Human Services

SAC 3200 - Addiction and the Family

2 Credit(s) Hours: *3 hrs. (1 hr. lecture, 2 hrs. lab)*

This course provides students with instruction in the interpersonal and behavioral dynamics of addiction in the family. Students are introduced to a variety of family theories and models that can be used in assessment and treatment. The bio-psycho-social-environmental effects of addiction on the family are examined. Critical elements in screening, assessment, treatment/discharge and relapse prevention planning, crisis intervention and case management are reviewed and students practice basic skills needed to work with families as individuals and in family groups. Students are introduced to prevalent evidence-based approaches and emphasis is placed on cultural factors and on special issues including that related to military families, co-occurring disorders, domestic violence and others. Practice in delivering addiction materials as psycho-educational interventions to families is also addressed.

This course is approved by the NYS OASAS credential.

Prerequisite(s): SAC 2000 and SAC 2200

Department: Allied Health, Mental Health and Human Services

Surgical Technology

ST 2P00 - Surgical Technology II Laboratory Component

3 Credit(s) Hours: *6 hrs. lab*

This course provides the hands-on laboratory component for practice of the essential skills during the perioperative phase of patient care. Students have the opportunity to apply the skills necessary for function in the scrub role in any operating room.

Prerequisite(s): ENG 1200, BIO 1100, and ST 990

Corequisite(s): ST 100 and ST 200

Department: Allied Health, Mental Health and Human Services

ST 3P00 - Practicum I

2 Credit(s) Hours: *8 clinical hrs.*

Provides the student individualized experience in practice in the field. Emphasis is placed demonstrating proficiency necessary to participate in surgical procedures.

Prerequisite(s): ST 100, ST 200, and ST 2P00

Corequisite(s): ST 300, ST 400, and ST 4P00

Department: Allied Health, Mental Health and Human Services

ST 4P00 - Practicum II

2 Credit(s) Hours: *8 clinical hrs.*

Provides the student with individualized experience in practice in the field. Emphasis is placed on demonstrating proficiency in skills necessary and participating in basic surgical procedures.

Corequisite(s): ST 300, ST 3P00, and ST 400

Prerequisite(s)/Corequisite(s): BIO 1200

Department: Allied Health, Mental Health and Human Services

ST 5P00 - Practicum III

3 Credit(s) Hours: *16 clinical hrs.*

Continuation of individualized experiences in practice in the field. Emphasis is placed on demonstrating proficiency in skills necessary for participating in the advanced specialties.

Prerequisite(s): ST 400 and ST 4P00

Corequisite(s): ST 500

Prerequisite(s)/Corequisite(s): BIO 5100

Department: Allied Health, Mental Health and Human Services

ST 6P00 - Practicum IV

3 Credit(s) Hours: *16 clinical hrs.*

Provides the student with individualized experience in the field. Emphasis is placed on demonstrating proficiency in skills necessary for independent practice.

Prerequisite(s): ST 500 and ST 5P00

Corequisite(s): ST 600

Department: Allied Health, Mental Health and Human Services

ST 100 - Surgical Technology I

3 Credit(s) Hours: *3 hrs.*

This introductory course intends to introduce the student to the broad field of Surgical Technology. The basic, general information section introduces the student to the Perioperative environment and professional roles of the surgical team members. The Patient Care section is a comprehensive overview of the historical development of surgery and the practice of Surgical Technology. Professional conduct is discussed in conjunction with communication skills and surgical ethics.

Prerequisite(s): BIO 1100, ENG 1200 and ST 990

Corequisite(s): ST 200 and ST 2P00

Department: Allied Health, Mental Health and Human Services

ST 200 - Surgical Technology II

3 Credit(s) Hours: *3 hrs.*

Provides theoretical knowledge for the application of essential operative skills during the perioperative phase of patient care. It introduces the student to the necessary critical thinking required to apply the practice of surgical technology with a focus on those skills necessary for functions in the scrub role. This course will be taught as a lecture in conjunction with an active hands-on practice laboratory component.

Prerequisite(s): BIO 1100, ENG 1200, and ST 990

Corequisite(s): ST 100 and ST 2P00

Department: Allied Health, Mental Health and Human Services

ST 300 - Surgical Technology III

3 Credit(s) Hours: *3 hrs.*

Principles and the practice of surgical technology with a focus on those functions that impact the circulating role. Introduction to surgical pharmacology, anesthesia and wound healing physiology. This course will be taught as a lecture in conjunction with an active hands-on clinical component.

Prerequisite(s): ST 100, ST 200, and ST 2P00

Corequisite(s): ST 3P00, ST 400, and ST 4P00

Department: Allied Health, Mental Health and Human Services

ST 400 - Surgical Procedures

3 Credit(s) Hours: *3 hrs.*

Introduction to each anatomical system with a focused review of pathology in conjunction with those specific procedures performed. The instrumentation and surgical modalities of each specialty will be covered as they relate to the practice of Surgical Technology. Surgical specialties include General, Gastrointestinal, Biliary, Gynecologic, Ear-Nose and Thoracic Surgery, Plastic, and Pediatric Surgery. This course intends to introduce the student to each body system with a focused systems review of pathology in conjunction with those specific procedures performed. The instrumentation and surgical modalities of each Surgical Specialty will be taught as it relates to the practice of Surgical Technology. This course is taught as a lecture with a hands-on component as it relates to specialized equipment.

Corequisite(s): ST 300, ST 3P00, and ST 4P00

Prerequisite(s)/Corequisite(s): BIO 1200

Department: Allied Health, Mental Health and Human Services

ST 500 - Advanced Surgical Procedures

3 Credit(s) Hours: *3 hrs.*

Continuation of anatomical systems with a focused review of pathology in conjunction with specific procedures performed. The instrumentation and surgical modalities of each advanced surgical specialty will be covered as they relate to the practice of Surgical Technology.

Prerequisite(s): ST 400 and ST 4P00

Corequisite(s): ST 5P00

Prerequisite(s)/Corequisite(s): BIO 5100

Department: Allied Health, Mental Health and Human Services

ST 600 - Professional Strategies for the Surgical Technologist

3 Credit(s) Hours: *3 hrs.*

Prepares students for both certification and life in the work force. It is both a review course for certification as well as development of job-seeking skills to ensure that the student succeeds in a career path. Resume writing and interviewing techniques are covered as a requirement for the Certified Surgical Technologist for recertification and continuing education throughout his or her career.

Prerequisite(s): ST 500 and ST 5P00

Corequisite(s): ST 6P00

Department: Allied Health, Mental Health and Human Services

ST 990 - Integrated Healthcare Sciences and Medical Terminology

3 Credit(s) Hours: *3 hrs.*

This comprehensive course aims to provide students with a strong foundation in healthcare sciences, microbiology, medical terminology, pathophysiology, wound healing, medical math, sterile processing decontamination, and surgical-medical equipment terminology. Through a combination of lectures, practical exercises, and hands-on learning, students will gain a deep understanding of the principles and practices essential in the healthcare field.

Open only to students applying to the Surgical Technology program.

Corequisite(s): BIO 1100 and ENG 1200

Department: Allied Health, Mental Health and Human Services

ST 4500 - Surgical Pharmacology

3 Credit(s) Hours: *3 hrs.*

The study of pharmacology relevant to the preparation, distribution and administration of those medications commonly used in the operating room environment. Concepts of intended therapeutic effects, side effects and adverse effects are covered.

Offered only in fall and open only to Surgical Technology Majors.

Prerequisite(s): ST 100 or Departmental permission

Department: Allied Health, Mental Health and Human Services

Theatre

THA 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of Theatre Arts is developed individually between student and faculty member and must be approved by the department.

Department: Communications and Performing Arts

THA 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

THA 4000 - Performance Practicum Series

1 Credit(s) Hours: *6 hrs. (1 hr. lecture, 5 hrs. lab)*

This practice-based course provides students with hands-on experience working onstage as a performer for live theatrical productions. Working within an ensemble of student and faculty theatre artists, students will practice and execute the theatre skills associated with acting, singing, dance and other modes of theatre performance. This course may be repeated five times for a total of five (5) credits.

Prerequisite(s): Open to Theatre Arts Majors only.

Department: Communications and Performing Arts

THA 4001 - Performance Practicum Series

1 Credit(s) Hours: *6 hrs. (1 hr. lecture, 5 hrs. lab)*

This practice-based course provides students with hands-on experience working onstage as a performer for live theatrical productions. Working within an ensemble of student and faculty theatre artists, students will practice and execute the theatre skills associated with acting, singing, dance and other modes of theatre performance. This course may be taken up to five times for a total of five (5) credits.

Equivalent to THA 4000

This course allows for double enrollment into two practicums in a given semester in order to meet the Theater Arts degree requirements for graduation. Consultation with the Communications and Performing Art Department is **required** to enroll in this course.

Prerequisite(s): Department Permission

Department: Communications and Performing Arts

THA 4100 - Production Practicum Series

1 Credit(s) Hours: *6 hrs. (1 hr. lecture, 5 hrs. lab)*

This practice-based course provides students with hands-on experience working onstage and backstage for live theatrical productions. Working within an ensemble of student and faculty theatre artists, students will practice and execute the theatre skills associated with acting, design, technical theatre, and stage management. This course may be repeated five times for a total of five (5) credits.

Prerequisite(s): Open to Theatre Arts Majors only.

Department: Communications and Performing Arts

THA 4101 - Production Practicum Series

1 Credit(s) Hours: *6 hrs. (1 hr. lecture, 5 hrs. lab)*

This practice-based course provides students with hands-on experience working onstage and backstage for live theatrical productions. Working within an ensemble of student and faculty theatre artists, students will practice and execute the theatre skills associated with acting, design, technical theatre, and stage management. This course may be taken up to five times for a total of five (5) credits. Consultation with the Communications and Performing Art Department is required to enroll in this course.

Equivalent to THA 4100

This course allows for double enrollment into two practicums in a given semester in order to meet the Theater Arts degree requirements for graduation. Consultation with the Communications and Performing Art Department is **required** to enroll in this course.

Prerequisite(s): Department Permission

Department: Communications and Performing Arts

THA 4200 - Advanced Theatre Practicum

1 Credit(s) Hours: *3 hrs.*

This is an intensive exploration of various areas of theatrical practice. Students will explore acting technique, musical theatre performance, dramaturgy, stage management and technical theatre in a conservatory-style setting. Through a team-taught course, students rehearse material for several weeks and then present the material via an experiential learning experience, such as attendance at the regional Kennedy Center American College Festival or other advanced theatrical project.

Prerequisite(s): Department permission

Department: Communications and Performing Arts

THA 4300 - Playwriting

3 Credit(s) Hours: *3 hrs.*

An exploration of the craft of playwriting, including story structure, outlining, first drafts, revisions, and readings. Short plays will be explored, created, revised, and read in a theater setting.

Prerequisite(s)/Corequisite(s): ENG 2400

Department: Communications and Performing Arts

THA 4400 - Voice and Diction for the Actor

3 Credit(s) Hours: *3 hrs.*

This course explores the full range of the actor's vocal instrument including pitch, resonance, the release of vocal tension, flexibility, and variety, as a means to support and maximize acting choices. Students will discover the connection between thought, breath and the body, in its relationship to performance. Students will apply these techniques through the study of dramatic text written before 1900.

Prerequisite(s): THA 5200

Department: Communications and Performing Arts

THA 4600 - Musical Theatre Vocal Skills

3 Credit(s) Hours: *3 hrs.*

Introduction to vocal technique and the basic music skills required for the study and performance of musical theatre. Included topics are breath, posture, vocal placement, music reading, song form, and basic vocal anatomy. The application of these techniques will be applied through the singing of musical theatre repertoire.

Department: Communications and Performing Arts

THA 4700 - Stage Management

3 Credit(s) Hours: *3 hrs.*

An exploration of the basic functions and responsibilities of the stage manager in the theatre forum, from preproduction to managing the rehearsal process, to tech and dress, to maintaining performances, and ending with post production archival materials. This course is open to all students.

Department: Communications and Performing Arts

THA 5000 - Foundations in Theatre Arts

3 Credit(s) Hours: *3 hrs.*

This survey course is designed to provide students with a thorough understanding and greater appreciation of the theatrical form. Readings and lectures will focus on the relationship between theatrical theory and practice, the various creative/production roles essential to theatre, as well as major artists and movements throughout theatrical history. Students will analyze major works of dramatic literature to offer context for course content, as well as attend a live theatrical performance on campus.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

THA 5050 - Integrative Studies Seminar

1 Credit(s) Hours: *2 hrs.*

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in other courses in the Integrative Studies Link.

Department: Communications and Performing Arts

THA 5100 - Play Analysis

3 Credit(s) Hours: *3 hrs.*

This course explores essential reading, imaginative and analytical skills necessary for the theatre artist to interpret works of dramatic literature. Through the study of selected plays & musicals from the 19th, 20th and 21st centuries, students will critique and assess a diverse set of theatrical works, representing a variety of theatrical genres and playwriting styles, in order to develop and apply analytical reading and creative thinking skills necessary for the theatrical craft. Overall, the course serves to introduce students to significant works of theatre, through scripts and representative productions, in order to highlight the techniques and tools necessary for emerging theatre artists to interpret the playwright's work with creativity, integrity and vision.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

THA 5200 - Acting I: Fundamentals of Acting

3 Credit(s) Hours: *3 hrs.*

This course serves as an introduction to the theories, techniques, histories and applications of modern acting. Students will examine fundamental concepts associated with Stanislavski acting theory including action/objective, beat analysis, vocal technique, emotional memory and physical awareness. Students will define and apply these and other theories through various writing and reading assignments, as well as the interpretation and performance of diverse works of dramatic literature.

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

THA 5300 - Acting II: Scene Study

3 Credit(s) Hours: *4 hrs./2 hrs. lecture, 2 hrs. laboratory/week*

This advanced acting course furthers and develops the skills and techniques explored in Acting I. Through immersive and detailed scene studies, students will develop their acting and storytelling abilities through the examination and execution of central acting skills such as character development, sensory awareness, emotional memory, psychophysical actions, objectives/super-objectives and active listening. Acting theories and techniques are evaluated and analyzed, then applied through the preparation and performance of dramatic works from ranging from the early 20th century to present day.

Prerequisite(s): THA 5200

Department: Communications and Performing Arts

THA 5500 - Introduction to Theatre Design & Technology

3 Credit(s) Hours: *4 hrs. (2 hrs. lecture, 2 hrs. lab)*

Introduction to scenery for live entertainment with special emphasis on the practice of scenic construction. Additionally, students will learn the basic skills that will allow them to function as productive members of the various crews that constitute a theatrical production. Backstage and Shop safety will be emphasized throughout.

Department: Communications and Performing Arts

THA 5600 - Fundamentals of Theatrical Lighting

3 Credit(s) Hours: *3 hrs.*

Introduction to the technology and application of stage lighting, how to focus and hang various types of stage lighting fixtures, operate basic computer lighting consoles and work with lighting design paperwork. Student will apply the learned skills in productions when possible. Basic electricity and safety will be covered.

Department: Communications and Performing Arts

THA 5800 - Musical Theatre Performance

3 Credit(s) Hours: *3 hrs.*

Through this course, students will assess, develop and apply the skills and tools necessary for musical theatre performance. Through the study of acting, vocal, movement and dramaturgical techniques, students will develop a unified approach to the study and performance of musical theatre material. Students will incorporate this approach into the analysis and performance of musical theatre repertoire from both traditional and contemporary works of musical theatre.

Prerequisite(s): THA 5200

Department: Communications and Performing Arts

THA 6000 - Introduction to Costume and Make-Up

3 Credit(s) Hours: *3 hrs.*

Through this course, students will learn the fundamentals of theatrical costuming and make-up for the stage. Students will gain skills in wardrobe supervision, costume management, wardrobe organization, alterations and repairs, make-up application, as well as basic sewing techniques necessary for the current entertainment industry. Students will learn the basic principles of costume design, as well as how to examine renderings and drawings for information regarding costume construction and make-up application.

Department: Communications and Performing Arts

THA 6300 - Basic Sound Technology

3 Credit(s) Hours: *3 hrs.*

Basic principles and operation of sound equipment and the proper methods for using recording technology, microphones, amplifiers and mixers in relation to design productions for the stage, screen and airwaves. Analysis of equipment and methods of operation are applied in class, laboratory and in actual production.

Department: Communications and Performing Arts

THA 6500 - Scenic Design

3 Credit(s) Hours: *3 hrs.*

Fundamentals of visual design theory and aesthetics for theatrical scenery will be learned through the application of technical as well as conceptual solutions. Students will learn to evolve the design process through sketches, mechanical drafting, rendering and modeling techniques. Technology will also be integrated into course content with such elements as computer-aided drafting and design and digital projections.

Department: Communications and Performing Arts

THA 6700 - History of Musical Theatre in the United States

3 Credit(s) Hours: *3 hrs.*

This survey course introduces students to the history of musical theatre, its major productions and significant artists. Students will explore the evolution of musical theatre through the lens of the historical, social and political developments in the United States throughout the 19th and 20th centuries. Through engagement with class lectures, group discussions, scholarly readings, analysis of multimedia and writing assignments, students will analyze, evaluate and differentiate the periods, productions and personalities central to the development of this unique theatre form.

Flexible Core: U.S. Experience in Its Diversity (Group B)

Department: Communications and Performing Arts

THA 6800 - History of Theatre: From Sophocles to Shakespeare

3 Credit(s) Hours: *3 hrs.*

A survey course covering the history of theatre from ancient origins to 17th century Europe. Through the use of historical documents, representative plays, critical essays and renderings of architecture, costumes, scenery and production designs, this course will examine the major periods of theatre history through artistic, cultural, political and social perspectives. Further, the course explores the cultural prominence of theatre within various societal contexts, highlighting the development and diversity of theatre across the historical timeline.

Flexible Core: World Cultures and Global Issues (Group A)

Department: Communications and Performing Arts

Tourism and Hospitality

TAH 81XX - Independent Study

1-3 Credit(s) Hours: *1-3 hrs.*

Independent study of tourism and hospitality is developed individually between student and faculty member and must be approved by the Department

Department: Tourism and Hospitality

TAH 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Tourism and Hospitality

TAH 100 - Introduction to Tourism and Hospitality

3 Credit(s) Hours: *3 hrs.*

Overview of the many and varied organizations and agencies that make up the tourism and hospitality industry, their roles and interrelationships. Topics include transportation, lodgings, restaurants, wholesale and retail operations, attractions, government owned parks and facilities, trade organizations, and governmental agencies.

Department: Tourism and Hospitality

TAH 200 - Destination Geography

3 Credit(s) Hours: *3 hrs.*

Destination development topics include: travel motivation, man-made and natural attractions, and activities in their geographic context, major tourism destination areas, and selling techniques used when counseling clients.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 400 - Tourism and Hospitality Customer Service

3 Credit(s) Hours: *3 hrs.*

The course teaches students the skills and techniques for providing excellent customer service. Students learn how to interact with customers through verbal and written communication to enhance/exceed customer expectations. Through the use of real-world scenarios, case studies, and role-playing, students learn about customer service within the Tourism and Hospitality industry. Students may earn the Guest Service Gold Tourism professional certification from the American Hotel and Lodging Association by passing the certification exam with a minimum score of 70% that accompanies the course content.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 500 - Human Resources and Labor Relations in Tourism and Hospitality

3 Credit(s) Hours: *3 hrs.*

This course examines human resources and labor relations topics within tourism and hospitality organizations, including the planning, forecasting, and discussion of lawful and ethical aspects of human resources and the structure, purpose, and impact, of labor unions on workplace relations. Terminology and best practices within the industry are explored. Relationship between employee and management are examined. A survey of labor union issues common to the industry is conducted.

Prerequisite(s)/Corequisite(s): TAH 100 or BA 1100

Department: Tourism and Hospitality

TAH 1200 - Tourism and Hospitality Entrepreneurship

3 Credit(s) Hours: *3 hrs.*

Introduction to the theories and concepts within the tourism and hospitality industries from an entrepreneurial perspective, including key determinants and their innovative impact on performance. The importance and impact of globalization is analyzed, and financial, marketing and legal strategies are explored. The tools needed to start one's own tourism and hospitality business are emphasized.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 1500 - Cruises and Specialty Markets

3 Credit(s) Hours: *3 hrs.*

Presents various specialty, niche travel markets to the student. These markets include: cruises, adventure tourism, heritage tourism, spa and fitness tourism, special interest sports tourism, gaming and casino operations.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 1700 - Tourism Technology

3 Credit(s) Hours: *4 hrs.*

Survey of critical technology components in tourism and aviation. Global Distribution Systems (GDS) and their application to each Industry through workplace simulations and online activities.

Prerequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 1800 - Case Studies in Tourism and Hospitality

3 Credit(s) Hours: *3 hrs.*

The case method is used to examine the various components of the tourism and hospitality industry. Each case contains details of actual operations that can be viewed from various perspectives in reaching solutions. Relevant technology and analytical tools are utilized throughout the course.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 1900 - The Business of Tourism & Hospitality

3 Credit(s) Hours: *3 hrs.*

Survey of critical business competencies and applied technology strategies to manage, market, create and promote tourism and hospitality products and services. Relevant reports and documents are prepared by students through simulated activities. Entrepreneurial activities are placed in a tourism and hospitality context.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 2200 - Front Office Operations

3 Credit(s) Hours: *3 hrs.*

Survey of front office operations within a hotel including front desk, reservations, customer service, night audit, marketing and human resources. Students master and apply critical skills and competencies for careers in the hospitality industry. Preparation for industry certification through the American Hotel and Lodging Association with the successful passing of the American Hotel and Lodging Association's Certified Front Desk Representative exam.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 2500 - Tourism and Hospitality Marketing

3 Credit(s) Hours: *3 hrs.*

Application of practical marketing techniques relating to the tourism and hospitality industries. Marketing mix, communications mix, customer relationship marketing and online marketing will be studied and a marketing plan typically found within small to mid-size businesses will be created.

Prerequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 3000 - TAH Financial Decision-Making

3 Credit(s) Hours: *3 hrs.*

This course provides students with a basic knowledge of tourism and hospitality industry financial decision-making skills. Students learn, and create, various business reports commonly found in the tourism and hospitality industries including income statements and balance sheets. Quantitative reasoning skills are gained through learning ratio analysis pricing, and forecasting within the context of running a tourism and hospitality related business.

Prerequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 4100 - Meeting and Convention Management

3 Credit(s) Hours: *3 hrs.*

A focus on the principles and skills required for the management of the meetings and convention industry and the various aspects and skills involved in planning and managing meetings and conventions including: needs assessment, identifying meeting objectives, program developments, facility selection, negotiations, contracts, meeting and function space setup, promotion and publicity, budgeting, evaluation, unions and legal issues. Industry certification from Education Institute-American Hotel & Lodging Association (EL-AH&LA) is possible with a passing score on certification exam.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 4300 - Event Catering Management

3 Credit(s) Hours: *3 hrs.*

Introduction to the basic skills and competencies required for catering, food and beverage operations, and the opportunities and responsibilities of this sector of the hospitality and tourism industry.

Department: Tourism and Hospitality

TAH 5050 - Integrative Studies Seminar

1 Credit(s) Hours: *2 hrs.*

This course serves as a place where students in learning communities can practice integration and application of thematic concepts explored in other courses in the Integrative Studies link.

Department: Tourism and Hospitality

TAH 5200 - Hotel Property Management Systems

3 Credit(s) Hours: *3 hrs.*

Survey of hotel property management systems and their importance to hotel operations. Students obtain a basic understanding of these systems and their applications to the hotel industry through workplace simulations, role plays, and online activities. Opera, property management software, is primarily taught. Additional property management systems may be surveyed.

Prerequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 5500 - Housekeeping Management

3 Credit(s) Hours: *3 hrs.*

An application of housekeeping management theory and techniques. The importance of the housekeeping department and its role in hotel operations will be discussed from a management, employee, union, and hotel type perspective. Students will learn prevalent housekeeping management theories, and obtain the skills associated with operating a housekeeping department of a hotel. Preparation for industry certification through the American Hotel and Lodging Association with the successful passing of the American Hotel and Lodging Association's Certified Housekeeping Attendant exam.

Prerequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 6500 - Airport and Aviation Security and Management

3 Credit(s) Hours: *3 hrs.*

A broad survey of the air transportation industry and management functions within airline and airport operations. The characteristics, scope and economic significance of airports and air transportation including an analysis of threats and security are surveyed within the aviation industry. An examination of impacts of global aviation terrorism and governmental measures to combat loss of life and property and sample airport terminal security programs are presented for analysis.

Prerequisite(s): TAH 100

Department: Tourism and Hospitality

TAH 7100 - Introduction to Professional Food Service

3 Credit(s) Hours: *3 hrs.*

An introduction to the various components of the professional food service industry. Subjects will include the history, scope, classification, trends, food service management tools, customer service and basic quantitative reasoning as it relates to food services.

Prerequisite(s)/Corequisite(s): CA 990

Department: Tourism and Hospitality

TAH 9096 - The Virtual Enterprise

3 Credit(s) Hours: *3 hrs.*

Introduction to business operations of tourism, hospitality, aviation, international transportation, and the food service industries through the development operation of a simulated business environment. Utilizing technology, students trade products and services, and form decision-making teams that conceive, organize and operate business transactions.

Department: Tourism and Hospitality

TAH 9250 - Field Experience in Tourism and Hospitality

3 Credit(s) Hours: *9 hrs./8 hrs. in field plus 1 hr. on-campus seminar*

This course provides students with experience in the Tourism and Hospitality industry by placing students into internships. Students will gain a comprehensive understanding of the business of tourism and hospitality. In addition, students learn how to be self-sufficient by learning the current approaches to job seeking. The course is a mixture of fieldwork, assignments, and workshops.

Prerequisite(s)/Corequisite(s): TAH 100

Department: Tourism and Hospitality

Yiddish

YD 82XX - Topical/Pilot Course

1-3 Credit(s) Hours: *1-3 hrs.*

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

Department: Communications and Performing Arts

YD 3000 - Yiddish Literature in Translation

3 Credit(s) Hours: *3 hrs.*

The emergence of Yiddish writers in the modern world. Emphasis is on the main literary personalities and their major contributions. Designed for non-Yiddish speaking students.

All readings and discussions are in English.

Prerequisite(s): ENG 1200

Flexible Core: Creative Expression (Group C)

Department: Communications and Performing Arts

Physical Sciences

PSQ 1001 - Quantitative Skills for Physical Sciences I

0 Credit(s) 1 Equated Credit(s) Hours: 2 hrs. (2 hrs. lab)

Composed of corequisite support modules in various basic math skills required in physical sciences. This course is non-credit bearing and is not equivalent to any Math course.

Corequisite(s): CHM 1100 Skills Support, PHY 1100 Skills Support, PHY 1300 Skills Support, PHY 1400, EGR 2200 Skills Support, or EGR 2300 Skills Support determination. Contact Department of Physical Sciences for Skills Support Information.

Department: Physical Sciences

PSQ 1002 - Quantitative Skills for Physical Sciences II

0 Credit(s) 1 Equated Credit(s) Hours: 2 hrs. (2 hrs. lab)

Composed of corequisite support modules in various basic math skills required in the physical sciences. This course is non-credit bearing and is not equivalent to any Math course.

Corequisite(s): CHM 1100 Skills Support, PHY 1100 Skills Support, PHY 1300 Skills Support, PHY 1400 Skills Support, EGR 2200 Skills Support, or EGR 2300 Skills Support, determination. Contact Department of Physical Sciences for Skills Support Information.

Department: Physical Sciences

PSQ 1003 - Quantitative Skills for Physical Sciences III

0 Credit(s) 1 Equated Credit(s) Hours: 2 hrs. (2 hrs. lab)

Composed of corequisite support modules in various basic math skills required in the physical sciences. This course is non-credit bearing and is not equivalent to any Math course.

Corequisite(s): CHM 1100 Skills Support, PHY 1100 Skills Support, PHY 1300 Skills Support, PHY 1400 Skills Support, EGR 2200 Skills Support, or EGR 2300 Skills Support determination. Contact Department of Physical Sciences for Skills Support Information.

Department: Physical Sciences

PSQ 1004 - Quantitative Skills for Physical Sciences IV

0 Credit(s) 1 Equated Credit(s) Hours: 2 hrs. (2 hrs. lab)

Composed of corequisite support modules in various basic math skills required in the physical sciences. This course is non-credit bearing and is not equivalent to any Math course.

Corequisite(s): CHM 1100 Skills Support, PHY 1100 Skills Support, PHY 1300 Skills Support, PHY 1400 Skills Support, EGR 2200 Skills Support, or EGR 2300 Skills Support determination. Contact Department of Physical Sciences for Skills Support Information.

Department: Physical Sciences

Liberal Arts Seminar

LAART 100 - Invitation to the Liberal Arts

1 Credit(s) Hours: 2 hrs. lab

This is a one credit seminar course for liberal arts majors taught by faculty from the college's liberal arts departments. This course will introduce students to the distinctive background, goals, and practices of the liberal arts, as well as provide students with a map of the major as it exists at Kingsborough, including the role of liberal arts concentrations. This course will provide students with opportunities to actively practice the habits of mind that are central to a liberal arts education, to connect with a community of liberal arts students and faculty, and to reflect on their own academic goals and learning processes.

Open only to Liberal Arts Majors

Department: Art

LABEH 100 - Invitation to the Liberal Arts

1 Credit(s) Hours: 2 hrs. lab

This is a one credit seminar course for liberal arts majors taught by faculty from the college's liberal arts departments. This course will introduce students to the distinctive background, goals, and practices of the liberal arts, as well as provide students with a map of the major as it exists at Kingsborough, including the role of liberal arts concentrations. This course will provide students with opportunities to actively practice the habits of mind that are central to a liberal arts education, to connect with a community of liberal arts students and faculty, and to reflect on their own academic goals and learning processes.

Open only to Liberal Arts Majors

Department: Behavioral Sciences

LACOM 100 - Invitation to the Liberal Arts

1 Credit(s) Hours: 2 hrs. lab

This is a one credit seminar course for liberal arts majors taught by faculty from the college's liberal arts departments. This course will introduce students to the distinctive background, goals, and practices of the liberal arts, as well as provide students with a map of the major as it exists at Kingsborough, including the role of liberal arts concentrations. This course will provide students with opportunities to actively practice the habits of mind that are central to a liberal arts education, to connect with a community of liberal arts students and faculty, and to reflect on their own academic goals and learning processes.

Open only to Liberal Arts Majors

Department: Communications and Performing Arts

LAENG 100 - Invitation to the Liberal Arts

1 Credit(s) Hours: 2 hrs. lab

This is a one credit seminar course for liberal arts majors taught by faculty from the college's liberal arts departments. This course will introduce students to the distinctive background, goals, and practices of the liberal arts, as well as provide students with a map of the major as it exists at Kingsborough, including the role of liberal arts concentrations. This course will provide students with opportunities to actively practice the habits of mind that are central to a liberal arts education, to connect with a community of liberal arts students and faculty, and to reflect on their own academic goals and learning processes.

Open only to Liberal Arts Majors

Department: English

LAHIS 100 - Invitation to the Liberal Arts

1 Credit(s) Hours: 2 hrs. lab

This is a one credit seminar course for liberal arts majors taught by faculty from the college's liberal arts departments. This course will introduce students to the distinctive background, goals, and practices of the liberal arts, as well as provide students with a map of the major as it exists at Kingsborough, including the role of liberal arts concentrations. This course will provide students with opportunities to actively practice the habits of mind that are central to a liberal arts education, to connect with a community of liberal arts students and faculty, and to reflect on their own academic goals and learning processes.

Open only to Liberal Arts Majors

Department: History, Philosophy and Political Science

LAWCL 100 - Invitation to the Liberal Arts

1 Credit(s) Hours: 2 hrs. lab

This is a one credit seminar course for liberal arts majors taught by faculty from the college's liberal arts departments. This course will introduce students to the distinctive background, goals, and practices of the liberal arts, as well as provide students with a map of the major as it exists at Kingsborough, including the role of liberal arts concentrations. This course will provide students with opportunities to actively practice the habits of mind that are central to a liberal arts education, to connect with a community of liberal arts students and faculty, and to reflect on their own academic goals and learning processes.

Open only to Liberal Arts Majors

Department: World Languages and Cultures