# Administrative Business Tech

## ABT

### ABT 100 - Fundamentals of Keyboarding
**Description:** Introductory keyboarding course using Microsoft Word. Emphasis is placed on learning the keyboard reaches and developing speed and accuracy. Instruction will include the formatting and keying of letters, memorandums, and reports. The following features will be presented: enhancing text, placing and aligning text, using writing tools, managing files, and printing documents. In addition, timed writings will be given to improve speed and accuracy development. Formerly OFT 100. Students who have completed OFT 100 will not receive credit for ABT 100. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring, Summer
**Credit Hours:** 3
**Department:** Administrative Business Tech

### ABT 102 - College Keyboarding
**Prerequisites:** ABT 100 or permission of the Chairperson.
**Description:** Fundamentals of skill building using Microsoft Word. Application of basic skills in the production of letters, envelopes, memos, outlines, reports, agendas, minutes, resumes, and tables. Emphasis is placed on the following features: processing text, formatting characters, placing and aligning text, using writing tools, managing files, and printing documents. In addition, timed writings will be given to improve speed and accuracy development. Formerly OFT 102. Students who have completed OFT 102 will not receive credit for ABT 102. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring
**Credit Hours:** 3
**Department:** Administrative Business Tech

### ABT 105 - Administrative Business Technology Workshop
**Prerequisites:** ABT 109 or permission of the Chair.
**Description:** A course to consolidate and reaffirm previously acquired office skills, to prepare business documents, and to acquaint the students with a wide range of office activities and procedures. Formerly OFT 105. Students who have completed OFT 105 will not receive credit for ABT 105. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring (even years)
**Credit Hours:** 3
**Department:** Administrative Business Tech

### ABT 109 - Word Processing Applications I
**Prerequisites:** ABT 102 or permission of the Chairperson.
**Description:** Development of word processing and office automation skills using Microsoft Word. Emphasis is placed on the following features: paragraph formatting, page numbering, footnotes/endnotes, headers/footers, styles and templates, find and replace, outline, columns, tables, and draw. In addition, timed writings will be given to improve speed and accuracy development. Formerly OFT 109. Students who have completed OFT 109 will not receive credit for ABT 109. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring
**Credit Hours:** 3
**Department:** Administrative Business Tech

### ABT 110 - Integrated Software I
**Prerequisites:** ABT 109 or permission of the Chairperson.
**Description:** This course continues the development of word processing and office automation skills using Microsoft Office. Students will prepare a wide variety of business documents. Emphasis is placed on the following features of Word: borders, columns, customizing default settings, forms, graphics, macros, merge, outline, advanced replace features, shading, special characters, styles, tables, templates, and watermarks. Students will also prepare basic spreadsheets to incorporate into routine business documents. In addition, timed writings will be given to improve speed and accuracy development. Formerly OFT 110. Students who have completed OFT 110 will not receive credit for ABT 110 (2 lecture, 2 laboratory hours) laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring
**Credit Hours:** 3
**Department:** Administrative Business Tech

### ABT 113 - Word Processing Basics
**Description:** This course introduces students to the basics of word processing using state-of-the-art software. Students will receive instruction in creating, editing, and formatting documents. This course is non-transferable. Formerly OFT 113. Students who have completed OFT 113 will not receive credit for ABT 113.
**Credit Hours:** 1
**Department:** Administrative Business Tech

### ABT 114 - Presentation Software Basics
**Description:** This course introduces students to the basics of presentation software using state-of-the-art software. Students receive instruction in inputting, editing, and formatting presentations. This course is non-transferable. Formerly OFT 114. Students who have completed OFT 114 will not receive credit for ABT 114.
**Credit Hours:** 1
**Department:** Administrative Business Tech

### ABT 115 - Spreadsheet Basics
**Description:** This course introduces students to the basics of spreadsheets using state-of-the-art software. Students will receive instruction in retrieving data, editing, and formatting spreadsheets to be incorporated into a variety of documents. This course is non-transferable. Formerly OFT 115. Students who have completed OFT 115 will not receive credit for ABT 115.
**Credit Hours:** 1
**Department:** Administrative Business Tech

### ABT 116 - Database Basics
**Description:** This course introduces students to the basics of databases using state-of-the-art software. Students will receive instruction in retrieving data, editing, and formatting databases to be incorporated into a variety of documents. This course is non-transferable. Formerly OFT 116. Students who have completed OFT 116 will not receive credit for ABT 116.
**Credit Hours:** 1
**Department:** Administrative Business Tech

### ABT 119 - Integrated Software II
**Prerequisites:** ABT 110 or permission of the Chairperson.
**Description:** Using Microsoft Office, this course integrates word processing, spreadsheets, databases, and presentation applications. Through office-support simulation projects, students will share information between applications by copying,
COURSE DESCRIPTIONS

linking, and embedding data from a source application into a destination application. Formerly OFT 119. Students who have completed OFT 119 will not receive credit for ABT 119. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring Credit Hours: 3

Department: Administrative Business Tech

ABT 120 - Desktop Publishing

Description: This course introduces the application of desktop publishing and computer graphics. Students design, edit, and produce high quality documents using Adobe InDesign Software. Formerly OFT 120. Students who have completed OFT 120 will not receive credit for ABT 120. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring Credit Hours: 3

Department: Administrative Business Tech

ABT 127 - Legal Office Procedures I

Description: Introduction to litigation documents: procedures for preparing summonses, complaints, answers, counterclaims, affidavits, bills of particulars, replies, verifications, and judgments. Discussion of New York State and Federal court systems. Formerly OFT 127. Students who have completed OFT 127 will not receive credit for ABT 127. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring (even years) Credit Hours: 3

Department: Administrative Business Tech

ABT 128 - Legal Office Procedures II

Description: Introduction to the procedure for preparing non-litigation documents, including contracts, powers of attorney, wills, and real estate papers. Discussion of probate, appeals, and motion practice. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring (odd years) Credit Hours: 3

Department: Administrative Business Tech

ABT 129 - Medical Malpractice Office Procedures

Description: This course introduces students to the field of medical malpractice. Students will receive instruction on professional responsibility and ethics and the types of personal injury, worker's compensation, and general liability cases. Emphasis will be placed on preparing medical malpractice correspondence and other written documentation such as subpoenas, responses, answers, chronological summaries, depositions, and other discovery and investigative documents. Offered: Fall, Spring Credit Hours: 3

Department: Administrative Business Tech

ABT 205 - Administrative Business Technology Internship

Prerequisites: ABT 105 and ABT 110 or ABT 254 or permission of the Chairperson.

Description: This course provides students with supervised internship experience in legal, medical, or general offices giving students the opportunity to apply their classroom skills in their chosen field of study. Weekly coursework and discussion postings are assigned to reinforce internship experience. Formerly OFT 205. Students who received credit for OFT 205 will not receive credit for ABT 205. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring (odd years) Credit Hours: 3

Department: Administrative Business Tech

ABT 230 - Web Page Formatting

Description: This course allows students to create, edit, manage, and maintain websites using Adobe Dreamweaver. Dreamweaver is one of the most popular webpage/website creation and management tools on the market. This course is open to all NCC students. No prerequisite. Formerly OFT 230. Students who have completed OFT 230 will not receive credit for ABT 230. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring Credit Hours: 3

Department: Administrative Business Tech

ABT 235 - E-Commerce for Office Professionals

Description: A comprehensive introduction to electronic commerce and the Internet taken from an office worker's perspective. This course is designed to help office professionals develop the necessary skills to use the Internet effectively and to provide students with an overview of the field of electronic business and information processing. This course features hands-on exercises for students who want to know how information technologies are tied together to improve business productivity. This course is open to all NCC. No prerequisite. (Also offered online) Formerly OFT 235. Students who have completed OFT 235 will not receive credit for ABT 235. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring Credit Hours: 3

Department: Administrative Business Tech

Accounting

ACC

ACC 101 - Accounting I

Prerequisites: A student with two or more remedial requirements cannot take this course.

Description: This course is an introduction to financial statements, analysis of the statements, and accounting concepts for business entities. Other topics include cash, receivables, inventory, non-current assets, and current...
Accounting and Business Admin

ACC 101 - Accounting I
Prerequisites: ACC 101 with a grade of C or better.
Description: An introductory course providing students with accounting knowledge incorporating accounting software programs such as Peachtree, QuickBooks, and other similar commercial software packages.
Credit Hours: 3
Department: Accounting and Business Admin

ACC 102 - Accounting II
Prerequisites: ACC 101 with a grade of C or better.
Description: This course is a continuing introduction to accounting concepts for business entities. The course focuses on accounting concepts for long-term liabilities, stockholders' equity, financial statement analysis as well as specific accounting concepts relating to statement of cash flows and managerial accounting. Formerly BUS 102. Students who have completed BUS 102 will not receive credit for ACC 102. Students who have completed BUS 201 will not receive credit for ACC 201.
Credit Hours: 3
Department: Accounting and Business Admin

ACC 104 - Managerial Accounting
Prerequisites: ACC 101 with a grade of C or better.
Description: This course is an introduction to the concepts of Managerial Accounting and their application in today's business environment. The course presents managerial tools and their uses in decision making within manufacturing, merchandising and service entities. It also emphasizes specific managerial uses of the accounting information within the entity.
Credit Hours: 4
Department: Accounting and Business Admin

ACC 125 - Computerized Accounting
Description: An introductory course providing students with accounting knowledge incorporating accounting software programs such as Peachtree, QuickBooks and other similar commercial software packages.
Credit Hours: 4
Department: Accounting and Business Admin

ACC 201 - Intermediate Accounting I
Prerequisites: ACC 101 and ACC 102 with grade of C or better in each course.
Description: This course examines the theory and concepts of financial accounting as expressed by authoritative pronouncements of the Financial Accounting Standards Board and the Accounting Principles Board. The course provides a review of the accounting cycle and focuses on the financial reporting which includes the preparation and analysis of the balance sheet, the income statement, and the statement of changes in stockholder's equity. The course also provides and introduction to the others aspects of financial reporting and analysis. Additional topics covered include specific accounting concepts relating to current assets, plant assets, intangibles, revenue recognition, and the time value of money. Formerly BUS 201. Students who have completed BUS 201 will not receive credit for ACC 201.
Credit Hours: 3
Department: Accounting and Business Admin

ACC 202 - Intermediate Accounting II
Prerequisites: ACC 201 with a grade of C or better.
Description: This course continues to examine the theory and concepts of financial accounting as expressed by authoritative pronouncements of the Financial Accounting Standards Board and the Accounting Principles Board. The course focuses on the preparation and analysis of the statement of cash flows and specific accounting concepts relating to non-current assets, current and long-term liabilities, accounting for income taxes, leases, and post employment benefits. Additional topics covered include contingencies, contributed capital, accounting changes and errors, and earnings per share. Formerly BUS 202. Students who have completed BUS 202 will not receive credit for ACC 202.
Credit Hours: 3
Department: Accounting and Business Admin

ACC 203 - Federal Income Taxes
Prerequisites: ACC 101 with a grade of C or better.
Description: Federal income tax laws and filing requirements as applied to the preparation of individual and sole proprietorship returns including all related schedules. Introduction to tax planning. This course should not be taken by those intending to take the C.P.A. examination. Not offered every semester.
Credit Hours: 3
Department: Accounting and Business Admin

ACC 206 - Payroll Systems and New York State Taxes
Description: A course providing the underlying concepts, theories, and procedures for payroll systems, payroll record keeping, and employers' payroll requirements for filing N.Y.S. and N.Y.C. payroll taxes. N.Y.S. tax law as applied to the preparation of individual, unincorporated and franchise returns. N.Y.S. sales tax law and preparation of sales tax returns. Tax planning and researching tax problems. Not offered every semester.
Credit Hours: 3
Department: Accounting and Business Admin

ACC 208 - Cost Accounting
Prerequisites: ACC 101 and ACC 102 with a grade of C or better.
Description: This course examines the uses of accounting information by management in planning and controlling operations, for inventory evaluation and profit determination, and for making both short and long term decisions. A detailed examination is made of job order process and standard cost systems used in recording costs. The various types of quantitative tools used by management in making business decisions are studied. Not offered every semester.
Credit Hours: 4
Department: Accounting and Business Admin

ACC 295 - Independent Study-Accounting
Description: A course providing the underlying concepts, theories, and procedures for payroll systems, payroll record keeping, and employers' payroll requirements for filing N.Y.S. and N.Y.C. payroll taxes. N.Y.S. tax law as applied to the preparation of individual, unincorporated and franchise returns. N.Y.S. sales tax law and preparation of sales tax returns. Tax planning and researching tax problems. Not offered every semester.
Credit Hours: 3
Department: Accounting and Business Admin

Africana Studies

AFR

AFR 100 - African Art and Culture
Description: History of African Art, from antiquity to present, in relation to the cultures which produced the art. Examination of representative African forms. West, East, and Central Africa. Introduction to historic African crafts, costume, and music.
Credit Hours: 3
Department: Accounting and Business Admin

Nassau Community College: https://collegecatalog.ncc.edu/current
AFR 100 - African American Dance Ensemble, Rehearsal and Performance

Description: (Dual listed with DAN 117)
This is the first course in the AFR 100- AFR 111 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble Productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 1

Department: Africana Studies

AFR 110 - African American Dance Ensemble, Rehearsal and Performance

Description: (Dual listed with DAN 118)
This is the second course in the AFR 110- AFR 111 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble Productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 1

Department: Africana Studies

AFR 111 - African American Dance Ensemble, Rehearsal and Performance

Description: (Dual listed with DAN 119)
This is the first course in the AFR 110- AFR 111 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble Productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 1

Department: Africana Studies

AFR 112 - A Survey of the Art of African American Dancers and Choreographers

Description: (Dual listed with DAN 125)
An introduction to the contributions of African American creative and performing artists to the development of social and theatrical dance in America. Classroom demonstrations by representative artists and field trips to dance concerts are part of the curriculum.
SUNY GEN ED GHUM, GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3

Department: Africana Studies

AFR 113 - African American Dance Ensemble, Rehearsal and Performance

Description: (Dual listed with DAN 217)
This is the first course in the AFR 113 - AFR 114 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 1

Department: Africana Studies

AFR 114 - African American Dance Ensemble, Rehearsal and Performance

Description: (Dual listed with DAN 218)
This is the second course in the AFR 113 - AFR 114 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Credit Hours: 3

Department: Africana Studies

AFR 130 - African American Literature I

Prerequisites: ENG 100 or ENG 101 and ENG 102 or ENG 109
Description: (Dual listed with ENG 207)
This course covers development of African American literature from early slave narratives and folklore following the advent of the trans-Atlantic slave trade through the Revolutionary, pre- and post-Civil War periods, to the major literary flowering of the 1920s Harlem Renaissance. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM; LIT, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: Africana Studies

AFR 131 - African American Literature II

Prerequisites: AFR 130 or ENG 207 or permission of the Africana Studies Department.
Description: (Dual listed with ENG 208)
The course examines the ideas, themes, and aesthetics in literature by African Americans from the 1930s to the present. Diverse writers such as Dorothy West, Malcolm X, Ralph Ellison, James Baldwin, Gwendolyn Brooks, Robert Hayden, Alice Walker, Tony Morrison, and Walter Mosely are read. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM; LIT, PLDI
Offered: Fall, Spring
Credit Hours: 3

Department: Africana Studies

AFR 140 - African American History I

Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: (Dual listed with HIS 110)
The study of African independence movements; discussion of the problems of post-independence Africa, such as nation building, strategies of development, education, pan-Africanism; and problems of democracy in southern Africa.
SUNY GEN ED- GOWC, GSBS; NCC GEN ED-SBS, GLNW
Offered: Fall, Spring
Credit Hours: 1

Department: Africana Studies

AFR 141 - African American History II

Description: (Dual listed with HIS 177)
A survey of the African American experience since the Reconstruction Era to the post-World War II period and the current scene. Emphasis centers on the Civil Rights Movement, the Harlem Renaissance, the Black Revolution and the philosophies of Dr. Martin Luther King, Jr., Malcolm X, Jesse Jackson, Angela Davis, Cynthia Boston, Willie McGee and the "exiled" leaders of the contemporary scene.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: Africana Studies

AFR 142 - History of African Civilization

Description: The course concentrates on the traditional African ways of life and the African responses, political and cultural, to the colonial experience.
SUNY GEN ED- GOWC, GSBS; NCC GEN ED-SBS, GLNW
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: Africana Studies

AFR 143 - History of Contemporary Africa

Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: (Dual listed with HIS 110)
The study of African independence movements; discussion of the problems of post-independence Africa, such as nation building, strategies of development, education, pan-Africanism; and problems of democracy in southern Africa.
SUNY GEN ED- GOWC, GSBS; NCC GEN ED-SBS, GLNW
Offered: Fall, Spring
Credit Hours: 3

Department: Africana Studies

AFR 150 - African American Choral Ensemble

Description: (Dual listed with MUS 129)
This is the first course in the AFR 150-151 sequence. Participation in the production, rehearsal performance of the African American Choral Ensemble productions. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall
Credit Hours: 1

Department: Africana Studies

AFR 151 - African American Choral Ensemble

Description: (Dual listed with MUS 130)
COURSE DESCRIPTIONS

This is the second course in the AFR 150 - AFR 151 sequence. Participation in the production, rehearsal and performance of the African American Choral Ensemble performances. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall
Credit Hours: 1
Department: Africana Studies

AFR 152 - Perspective on Jazz
Description: (Dual listed with MUS 207)
This course is designed to explore the inception and evolution of jazz, its styles and influence on other musical types. Included is the heritage of the African American: i.e., spirituals, work songs, blues, with emphasis on characteristics of African music.
SUNY GEN ED-GART, GHUM; NCC GEN ED-PLDI, HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Africana Studies

AFR 153 - African American Choral Ensemble
Description: (Dual listed with MUS 229)
Participation in the production, rehearsal and performance of the African American Choral Ensemble productions. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall
Credit Hours: 1
Department: Africana Studies

AFR 154 - African American Choral Ensemble
Description: (Dual listed with MUS 229 - MUS 230)
Participation in the production, rehearsal and performance of the African American Choral Ensemble productions. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Spring
Credit Hours: 1
Department: Africana Studies

AFR 155 - African American Music
Description: (Dual listed with MUS 205)
In addition to an evaluation of the basic musical materials of African American music and its effects on other music forms, an historical/philosophical/political analysis and survey are also included.
SUNY GEN ED-GART, GHUM; NCC GEN ED-HUM, PLDI, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Africana Studies

AFR 157 - Black Social Philosophy
Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course. (Dual listed with PHI 108)
Description: An examination of the social philosophy of thinkers such as Du Bois, Garvey, King and Fanon. Particular attention is paid to oppression and the struggle for self-identity. The ideals of freedom, equality, justice and community are carefully considered.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Africana Studies

AFR 185 - African American Culture
Description: (Dual listed with SOC 214)
A comprehensive survey of the various aspects of the lives, life-styles, values, art forms and social impacts of the African American. The course includes the varying lifestyles at different socioeconomic levels; speech patterns; the role of the church as a religious, historical, political and recreational institution; African American cultural patterns; and the influence of Africa.
SUNY GEN ED-GSBS; NCC GEN ED-PLDI, SBS
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Africana Studies

AFR 186 - The African American Family
Prerequisites: SOC 201 or ANT 203, or permission of instructor.
Description: (Dual listed with SOC 219)
Sociological approaches to the African American family. Topics include interactions with public and social institutions, male/female relationships, state of the extended family, identity as a socialization agent, courtship, sex patterns and roles, health and economic issues, alternative life styles, the Black male as an “endangered species,” and the effects of public policy on the Black family.
SUNY GEN ED-GSBS; NCC GEN ED-PLDI, SBS
Offered: Fall, Spring
Credit Hours: 3
Department: Africana Studies

AFR 190 - Introduction to Black Theatre in America
Description: (Dual listed with THR 102)
An introduction to the literature and artists of the contemporary African American theatre. The course includes representative playwrights, actors and technicians as speakers in the class and field trips to theatre productions. Students have the opportunity to work in at least one production per semester, selected from contemporary African American drama which may, whenever possible, be performed in the community.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Africana Studies

AFR 192 - African American Theatre Ensemble, Rehearsal and Performance
Description: (Dual listed with THR 118)
Participation in the production, rehearsal and performance of the African American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Africana Studies

AFR 193 - African American Theatre Ensemble, Rehearsal and Performance
Description: (Dual listed with THR 217)
Participation in the production, rehearsal and performance of the African American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 1
Department: Africana Studies

AFR 194 - African American Theatre Ensemble, Rehearsal and Performance
Description: (Dual listed with THR 218)
Participation in the production, rehearsal and performance of the African American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Africana Studies

AFR 197 - Communications in Black America
Description: (Dual listed with THR 117)
A comprehensive overview of African American culture with an emphasis on the communication processes. (Dual listed with THR 118)
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 3
Department: Africana Studies

AFR 199 - African American Theatre Ensemble, Rehearsal and Performance
Description: (Dual listed with THR 219)
Participation in the production, rehearsal and performance of the African American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Summer
Credit Hours: 1
Department: Africana Studies

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### Allied Health Sciences

**AHS**

**AHS 100 - CPR and Basic Cardiac Life Support**  
**Description:** (Dual listed with HED 290)  
This course is designed to teach Cardiopulmonary Resuscitation (CPR) and Basic Life Support to individuals entering the various service professions (police, fire), health professionals and professionals who are activity-oriented (recreation, lifeguard), etc. Basic procedures are covered in full. Successful completion of the course meets all requirements for the American Red Cross and Heart Association "course completion card." It cannot be used to fulfill Physical Education requirement for graduation.  
SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring, Summer  
**Credit Hours:** 3  
**Department:** Allied Health Sciences

**AHS 101 - Introduction to Allied Health Science**  
**Description:** An introductory course designed to provide the student with basic knowledge and skills common to a variety of Allied Health Sciences. Medical terminology; the hospital: organization, specialized services and personnel; the nature, cause, diagnosis and treatment of disease; medical-legal considerations; aseptic principles and emergency care.  
SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring, Summer  
**Credit Hours:** 3  
**Department:** Allied Health Sciences

**AHS 102 - Introduction to Physical Therapy**  
**Description:** An introductory course designed for students who are planning to become physical therapists. Topics include: the training and role of health care workers in physical therapy, an introduction to physical therapy techniques, and ethical and medical-legal aspect of practice.  
SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring  
**Credit Hours:** 2  
**Department:** Allied Health Sciences

**AHS 103 - Fundamentals of Pharmacology**  
**Description:** The action and usage of commonly used drugs and solutions and the methods by which they are administered. In addition, a general orientation to the mathematics involved in the computation of drug dosages and solution composition.  
SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Spring  
**Credit Hours:** 3  
**Department:** Allied Health Sciences

**AHS 104 - Fundamentals of Pharmacology and Therapeutics for Respiratory Care**  
**Prerequisites:** AHS 101, AHS 111, AHS 131, AHS 311 and CHE 131.  
**Description:** An introduction to general principles of pharmacology, with an emphasis on agents used in the treatment of diseases of the cardio-respiratory systems. Also treated are principles of patient assessment, aerosol medication delivery systems, hyperinflation therapy, and associated equipment and techniques.  
SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Spring  
**Credit Hours:** 3  
**Department:** Allied Health Sciences

**AHS 105 - Integrated Basic Science**  
**Description:** An integrated science course focusing on application of scientific principles in paramedical areas. Topics of study include fundamentals of chemistry, anatomy and physiology, and microbiology as they pertain to the clinical field.  
SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring  
**Credit Hours:** 3  
**Department:** Allied Health Sciences

**AHS 111 - Respiratory Care I Lecture**  
**Corequisites:** AHS 101, AHS 131, AHS 311 and CHE 131  
**Description:** An examination of cardiopulmonary anatomy from the perspective of the respiratory therapist. The course begins with an overview of the chemical basis of structure, then concentrates on the structure and function of the cardiopulmonary system. Topics of study include cellular structure of the lung, structure of the conducting and respiratory areas of the lung, and functional anatomy of the cardiovascular system. (3 lecture hours)  
SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall  
**Credit Hours:** 3  
**Department:** Allied Health Sciences

**AHS 112 - Respiratory Care II Lecture**  
**Prerequisites:** AHS 101, AHS 111, AHS 131, AHS 311 and CHE 131
COURSE DESCRIPTIONS

Corequisites: AHS 103, AHS 132, AHS 312 and CHE 132

Description: An examination of the physiology of the cardiopulmonary system from the perspective of the respiratory therapist. Although the course concentrates primarily on the function of the pulmonary system, detailed attention is also given to the functional relationship between the cardiac and pulmonary systems. Topics of study include oxygen and carbon dioxide transport, blood acid-base balance, cellular respiration, pulmonary and systemic circulation, and functional changes to the cardiopulmonary systems caused by other organ systems. (3 lecture hours) SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 3

Department: Allied Health Sciences

AHS 116 - Respiratory Care I Lab
Prerequisites: MAT as advised.

Corequisites: AHS 101, AHS 111, AHS 131 and CHE 131.

Description: Introduction to the profession of respiratory care. History and development of respiratory care. Scientific measurement, physics and chemistry as pertinent to respiratory mechanics and physiology. The use of medical gases, aerosols, and instrumentation as preparation for an understanding and implementation of therapy rationale. Laboratory practice with respiratory care apparatus. This course includes introductory clinical exposure at local affiliating hospitals. Formerly AHS 311. Students who have completed course 311 will not receive credit for AHS 116. (8 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall

Credit Hours: 3

Department: Allied Health Sciences

AHS 117 - Respiratory Care II Lab
Prerequisites: AHS 101, AHS 111, AHS 131, AHS 116, CHE 131

Corequisites: AHS 104, AHS 112

Description: Pre or Corequisite: AHS 132, CHE 132

Introduction to mechanical ventilator therapy. Comprehensive study of all aspects of modern mechanical ventilation including terminology, classification, modes of operation, physiologic effects, clinical implementation, monitoring and troubleshooting of modern critical care devices with a focus on invasive ventilation. Laboratory practice emphasizing the set up and operation of current examples of adult mechanical ventilators. Formerly AHS 312.

Students who have completed course 312 will not receive credit for AHS 117. (9 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 3

Department: Allied Health Sciences

AHS 118 - Respiratory Care III Lab
Prerequisites: AHS 104, AHS 112, AHS 132, AHS 117 and CHE 132.

Description: Continuation of the study of modern mechanical ventilation with a focus on advanced ventilator techniques and interpretation of arterial blood gas results; introduction to diagnostic pulmonary function testing. Laboratory practice emphasizing the set up and operation of advanced ventilator systems as well as pulmonary function measuring instruments. Formerly AHS 313. Students who have completed course 313 will not receive credit for AHS 118. (16 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Summer

Credit Hours: 2

Department: Allied Health Sciences

AHS 119 - Respiratory Care Summer Clinical
Prerequisites: AHS 118

Description: Comprehensive clinical practicum at an affiliating hospital. The student will practice clinically the procedures learned during AHS 116, AHS 117, AHS 118, and AHS 104. (40 clinical hours per week for 5 weeks). Registration is limited to students enrolled in the Respiratory Therapy program. Formerly AHS 212. Students who have completed course 212 will not receive credit for AHS 119. Lab fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Summer

Credit Hours: 2

Department: Allied Health Sciences

AHS 120 - Surgical Technology I
Prerequisites: AHS 101, AHS 111, AHS 131, AHS 116, CHE 131

Description: Orientation to hospital organization, administration, and physical structure, with concentration on surgical areas. Interpersonal relationships, stress management and the "surgical team" concept. Introduction to medical terminology and microbiology. Emphasis on development of knowledge and skills relating to principles and practices of sterilization, aseptic techniques, surgical instruments and supplies, pneumatic and electrical equipment; electrosurgical, cryosurgical, and laser techniques. Selected laboratory and clinical experience. (4 lecture, 3 laboratory hours) Laboratory fees apply.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall

Credit Hours: 5

Department: Allied Health Sciences

AHS 121 - Surgical Technology II
Prerequisites: AHS 120

Description: Development of knowledge and skills required for a "scrub" assistant, knowledge and understanding of "circulating" duties, procedures of patient preparation, basic operative procedure, reporting and recording operative data, radiological and endoscopic procedures; principles of anesthesia and related safety measures; techniques of catheterization and platter application. Selected laboratory and clinical experience in the hospital setting includes exposure to the Endoscopy Unit and Central Supply. (4 lecture, 6 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 6

Department: Allied Health Sciences

AHS 122 - Surgical Technology III
Prerequisites: AHS 121

Description: Orientation to specific surgical specialties including hernia surgery, surgery of the gastrointestinal tract, surgery of the gall bladder, pancreas, liver and spleen and gynecologic and obstetric surgery, with related surgical anatomy, pathophysiology and specialty instrumentation. Relevant ethical and legal considerations. Selected clinical experience in the hospital setting includes exposure to PACU and Ambulatory Surgery Centers as well as correlated participation as scrub assistant and assisting with circulating duties under supervision. (4 lecture, 12 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 8

Department: Allied Health Sciences

AHS 124 - Surgical Technology IV
Prerequisites: AHS 123

Description: General orientation to specific surgical specialties including gynecotomies, plastic, head and neck, orthopedic, otologic, ophthalmic, neurologic, thoracic, peripheral vascular and cardiovascular surgery, with related surgical anatomy, pathophysiology and special instrumentation. Relevant ethical and legal considerations. Selected clinical experience in the hospital setting includes exposure to the Ambulatory Surgery Center and the Delivery Room as well as correlated participation as scrub assistant and assisting with circulating duties under supervision. (4
COURSE DESCRIPTIONS

Allied Health Sciences

AHS 131 - Anatomy and Physiology I
Prerequisites: Students must have satisfied all MAT, ENG, and RDG remediation prior to starting the course.
Description: The study of cell structure and function, tissue, skeleton, muscular system, nervous system, and special senses. Required of all students in Physical Therapist Assisting, Surgical Technology, Medical Laboratory Technology, Respiratory Care, Nursing, Radiologic Technology and Radiation Therapy. (3 lecture, 3 laboratory hours)
Credit Hours: 4

AHS 132 - Anatomy and Physiology II
Prerequisites: A minimum grade of C in AHS 131
Description: The study of blood, lymph, reticuloendothelial, cardiovascular, respiratory, digestive, urogenital, and endocrine systems. (Continuation of AHS 131 and required of the same students.) (3 lecture, 3 laboratory hours)
Credit Hours: 4

AHS 133 - Radiation Biology
Prerequisites: AHS 131, AHS 132
Description: Cell structure and function. Biological effects of radiation on normal and abnormal cells. Differential sensitivity of tissues; acute and late reactions. Clinical application and use of radiosensitizers, chemotherapeutic agents, combined therapies, and hyperthermia.
Credit Hours: 3

AHS 134 - Applied Radiation Physics I
Prerequisites: AHS 168, AHS 265
Description: Corequisites: AHS 133, AHS 266, AHS 267
Physical specifications of various treatment units. Beam characteristics, half value layers, radioactive decay. Radiation units of measurement, radioactive half life, and application of radionuclides.
Credit Hours: 8

AHS 135 - Applied Radiation Physics II
Prerequisites: AHS 134
Description: Interaction of ionizing radiation with matter. Dose calculations, multiple field techniques and therapeutic use of particulate radiation. Emphasis on principles of treatment planning, comparison of manual and computer treatment plans, fixed field and moving beam techniques.
Credit Hours: 3

AHS 136 - Applied Radiation Physics III
Prerequisites: AHS 135
Description: Corequisites: AHS 135
Application of treatment planning, fixed field and moving beam techniques. Dose calculations, multiple field planning, comparison of manual, computer techniques and therapeutic use of particulate radiation. Emphasis on principles of treatment planning, comparison of manual and computer treatment plans, fixed field and moving beam techniques.
Credit Hours: 3

AHS 151 - Physical Therapist Assistant I
Corequisites: AHS 234
AHS 152 - Physical Therapist Assistant
Corequisites: AHS 151, AHS 234.
AHS 153 - Physical Therapist Assistant
Corequisites: AHS 151
AHS 154 - Physical Therapist Assistant IV
Prerequisites: AHS 152
Description: The lecture includes principles and uses of medical physics, modalities of electricity along with physiological principles, indications, contraindications and precautions. The laboratory consists of the proficient application of these modalities used to alleviate pain, swelling and weakness. (8 lecture, 4 laboratory, 4 practice laboratory hours.) Laboratory fees apply.
Credit Hours: 3

AHS 155 - Physical Therapist Assistant V
Prerequisites: AHS 154
Corequisites: AHS 153
Description: This course includes the physiological basis and application of physical therapy modalities of heat, cold, light, water, mechanics and massage. Physical therapy treatments for patients with cardio-respiratory and integumentary impairments are included. (3 lecture, 3 laboratory, 3 practice laboratory hours.) Laboratory fees apply.
Credit Hours: 3

AHS 156 - Physical Therapist Assistant VI
Prerequisites: AHS 155
Description: Topics include physical treatment for pediatrics, the neurologically impaired adult and patients with amputations. (8 lecture, 6 laboratory, 6 practice laboratory hours.) Laboratory fees apply.
Credit Hours: 4
COURSE DESCRIPTIONS

Department: Allied Health Sciences

AHS 157 - Clinical Affiliation I
Prerequisites: AHS 156 with concurrency
Description: Full-time clinical practice as a physical therapist assistant student in two separate physical therapy settings is required including: sports medicine facilities, outpatient clinics, schools, rehabilitation centers, nursing homes, hospitals, home care, athletic teams and other health service agencies. (40 hours per week/6 weeks.) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall (second 5 weeks)
Credit Hours: 1

Department: Allied Health Sciences

AHS 160 - Clinical Affiliation II
Prerequisites: AHS 156 with concurrency.
Description: Full-time clinical practice as a physical therapist assistant student in two separate physical therapy settings is required including: sports medicine facilities, outpatient clinics, schools, rehabilitation centers, nursing homes, hospitals, home care, athletic teams and other health service agencies. (Summer only/40 hours per week/6 weeks.) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3

Department: Allied Health Sciences

AHS 168 - Introduction to Treatment Planning
Prerequisites: AHS 261
Description: Fundamental principles of treatment planning, dosimetry and calculations. Concepts of radiation protection including ALARA are discussed. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3

Department: Allied Health Sciences

AHS 180 - Treatment Technique
Description: Specific techniques for delivering care to radiation therapy patients, including shielding and immobilizing devices. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall (first 5 weeks)
Credit Hours: 1

Department: Allied Health Sciences

AHS 181 - Radiology and Topographic Anatomy
Prerequisites: AHS 180
Corequisites: AHS 261
Description: Identification of structures on radiographs as related to Topographical landmarks used in determining treatment ports in Radiation Therapy. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall (second 5 weeks)
Credit Hours: 4

Department: Allied Health Sciences

AHS 182 - Quality Assurance
Description: Quality assurance as it applies to Radiation Therapy. Chart maintenance, identification of machine malfunction, and image quality will be discussed. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall (third 5 weeks)
Credit Hours: 1

Department: Allied Health Sciences

AHS 189 - Treatment Technique
Description: Full-time clinical practice as a physical therapist assistant student in two separate physical therapy settings is required including: sports medicine facilities, outpatient clinics, schools, rehabilitation centers, nursing homes, hospitals, home care, athletic teams and other health service agencies. (Summer only/40 hours per week/6 weeks.) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3

Department: Allied Health Sciences

AHS 201 - Clinical Hematology
Corequisites: AHS 131 and CHE 131 or CHE 151.
Description: The study encompasses both normal and abnormal morphology and physiology of those cells and structures normally found in human blood. Relationships are drawn from hematologic manifestations occurring from other than pure hematological diseases and clinical findings are accentuated, being mutually or reciprocally related to true hematological disorders. (3 lecture, 3 laboratory hours) Laboratory fee applies. SUNY GEN ED-GLAB; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 4

Department: Allied Health Sciences

AHS 202 - Medical Microbiology
Description: Students must have successfully completed AHS 131 and 132 or permission of the Chairperson
Description: The student is given a medical view of microorganisms: their morphology and physiology. Pathogenic microorganisms, including etiology and pathology, are examined in detail as applicable to the hospital environment. The study of aseptic and antiseptic techniques involving patients, equipment and clinical areas enumerated. Practicum in obtaining pure cultures and identifying these cultures included. (3 lecture, 3 laboratory hours) Laboratory fee applies. SUNY GEN ED-GLAB; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 4

Department: Allied Health Sciences

AHS 203 - Clinical Pathology
Description: This course is designed to expose students to principles of pathologic processes and disorders. Theoretical considerations will provide the necessary background to understand disease and will facilitate the application of diagnostic modalities and therapeutic interventions. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

Department: Allied Health Sciences

AHS 205 - Immunohematology
Prerequisites: AHS 131, AHS 201 and CHE 131 or CHE 151.
Description: Provides student of Medical Technology with the theory and practice of blood transfusion and immunohematology. Modern, routine blood banking techniques are emphasized, especially in the laboratory portion of the course. Detailed discussion of related aspects of blood collection, component preparation, storage, preservation, and testing for compatibility between donor and recipient as well as hazards of transfusion are presented. (3 lecture, 3 laboratory hours). Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 4

Department: Allied Health Sciences

AHS 206 - Clinical Immunology
Prerequisites: AHS 201, AHS 205 and all prior Med. Tech. requirements.
Description: Concurrent Requisites: AHS 202 Basic Immunologic mechanisms: Antigen structure and antigenicity; antibody structure; antigen-antibody interaction: T-cell and B-cell interactions, including thymus-dependent and thymus-independent antigens; antibody production, including DNA and looping-out excision; complement; cytokines; theory of immunologic and serologic procedures and the immunologic manifestations of disease. The student will acquire the fundamental information necessary to function as a technician in a medical laboratory and/or engage in studies at the technologist level. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

Department: Allied Health Sciences

AHS 209 - Clinical Applications of Medical Laboratory Science
Prerequisites: AHS 131, AHS 132, AHS 201, AHS 202, AHS 203 and AHS 205.
Corequisites: AHS 210 and CHE 221.
Description: Restricted to Medical Laboratory Technology Students Only. This
COURSE DESCRIPTIONS

Allied Health Sciences

AHS 210 - Clinical Internship I

Prerequisites: AHS 131, AHS 132, AHS 201, AHS 202, AHS 203 and AHS 205.
Corequisites: AHS 209 and CHE 221.
Description: Clinical Internship is offered during the spring term and is only for those laboratory technician students who are matriculated and entering the final phase of their studies. Completion of all AHS science prerequisites with a minimum grade of C is required prior to registration for AHS 210. Students are assigned to hospital or private laboratories in Nassau County and surrounding areas. Here under Departmental supervision, students further their clinical training in selected phases of laboratory work. Through participation and practice they refine technical skills and didactic principles as they relate to the laboratory workplace.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3

Department: Allied Health Sciences

AHS 216 - Respiratory Care III Lecture

Prerequisites: AHS 119
Corequisites: AHS 218 and AHS 219
Description: A study of pulmonary pathology from the perspective of the respiratory therapist. The course covers diseases of the pulmonary system concentrating on such topics as restrictive and obstructive diseases. The student learns disease etiology, epidemiology, physiologic abnormally, clinical features, and the treatment of each disease. The course includes an introduction to problem-based learning and critical diagnostic thinking in respiratory care. Examples of diseases covered include emphysema, asthma, pneumonia, bronchitis, and pulmonary edema. Formerly AHS 113. Students who have completed AHS 113 will not receive credit for AHS 216. (2 lecture hours)

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 2

Department: Allied Health Sciences

AHS 219 - Respiratory Care III Clinical

Prerequisites: AHS 216, AHS 218, AHS 219.
Corequisites: AHS 220 and AHS 221
Description: A study of cardiovascular pathology and pathology of related organ systems from the perspective of the respiratory therapist. The course covers diseases of the cardiovascular system but also includes diseases of other related organ systems such as the digestive, nervous, intestinal, endocrine, and renal systems. The student learns disease etiology, epidemiology, physiologic abnormalities, clinical features, and the treatment of each disease. The course builds upon the concepts of problem-based learning and critical diagnostic thinking in respiratory care. Examples of diseases covered include stroke, encephalopathy, trauma, carcinoma, heart diseases, liver diseases, diabetes, HIV/AIDS, and renal diseases. Formerly AHS 413. Students who have completed AHS 413 will not receive credit for AHS 219. (8 clinical hours)

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 2

Department: Allied Health Sciences

AHS 220 - Respiratory Care IV Clinical

Prerequisites: AHS 216, AHS 218 and AHS 219.
Corequisites: AHS 217 and AHS 221.

Description: Comprehensive clinical experiences in multiple clinical rotations including medical, surgical, neonatal and pediatric intensive care, pulmonary rehabilitation, and long term care as well as sleep diagnostics. This course is an "off campus" course and will afford the student respiratory therapist an opportunity, within the hospital, to apply and develop proficiencies in the technical knowledge obtained during the first four semesters of "on campus" study. Under supervision of College faculty, the student will apply to the patient more intensive therapeutic measures involving medical gas therapy, aerosol therapy, mechanical ventilation, artificial airways, and airway care and patient assessment and evaluation with a focus on the application of critical diagnostic thinking and problem solving skills. Additionally, many of the before-mentioned therapeutics will be applied to infants and pediatric patients. (12 clinical hours) Lab fee applies. Formerly AHS 414. Students who have completed AHS 414 will not receive credit for AHS 220.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring

Credit Hours: 3

Department: Allied Health Sciences

AHS 221 - Respiratory Therapy Clinical II

Prerequisites: AHS 216, AHS 218 and AHS 219.

Corequisites: AHS 217 and AHS 220.

Description: Comprehensive clinical experiences in multiple clinical rotations including medical, surgical, neonatal and pediatric intensive care, pulmonary rehabilitation and long term care as well as sleep diagnostics. This course is an "off campus" course and will afford the student respiratory therapist an opportunity, within the hospital, to apply and develop proficiencies in the technical knowledge obtained during the first four semesters of "on campus" study. Under supervision of College faculty, the student will apply to the patient more intensive therapeutic measures involving medical gas therapy, aerosol therapy, mechanical ventilation, artificial airways, and airway care and patient assessment and evaluation with a focus on the application of critical diagnostic thinking and problem-solving skills. Additionally, many of the before-mentioned therapeutics will be applied to infants and pediatric patients. Formerly AHS 214. Students who have completed AHS 214 will not receive credit for AHS 221. (8 clinical hours per week). Lab fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring

Credit Hours: 2

Department: Allied Health Sciences

AHS 225 - Medical Concepts and Techniques

Description: The lecture includes the Medical Assistant's role in caring for patients. Discussion of functional anatomy, common disorders and diagnostic studies as they pertain to clinical medical assisting practice. Emphasis in laboratory will be on aseptic technique and standard precautions to prevent the spread of disease, diagnostic tests and common laboratory procedures. Lab fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall

Credit Hours: 4

Department: Allied Health Sciences

AHS 234 - Kinesiology

Description: Analysis of human motion based on anatomic, physiologic and mechanical principles. The study of typical and atypical movement patterns and manual muscle testing are included. (3 lecture, 3 laboratory, 3 practice laboratory hours). Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-n/a
Offered: Fall

Credit Hours: 4

Department: Allied Health Sciences

AHS 240 - Radiologic Technology I Lecture

Prerequisites: AHS 101, AHS 131 and AHS 241.

Corequisites: AHS 101, AHS 131 and AHS 241.

Description: A four week orientation lecture unit to prepare students for clinical education followed by lectures in applied physics, radiation safety, and radiographic technique. Upon successful completion of orientation unit, students will begin clinical education at an affiliating hospital. (3 lecture hours)

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall

Credit Hours: 3

Department: Allied Health Sciences

AHS 240 - Radiologic Technology I Laboratory/ Clinic

Prerequisites: ENG 101 and MAT Elective.

Corequisites: AHS 101, AHS 131 and AHS 241.

Description: Instruction and practice in an energized x-ray laboratory to include selected routine and special radiographic examinations of the appendicular and axial skeleton using phantoms. Supervised clinical Instruction and practice in an energized x-ray laboratory to include selected routine and special radiographic examinations of axial skeleton using phantoms. Supervised clinical education at an affiliating hospital two days a week. (3 laboratory hours, 16 clinical hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring

Credit Hours: 5

Department: Allied Health Sciences

AHS 244 - Radiologic Technology III Summer Clinical

Prerequisites: AHS 240, AHS 241, AHS 242 and AHS 243.

Description: Supervised clinical education at an affiliating hospital five days a week from June to August. (40 clinical hours per week). Lab fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 5

Department: Allied Health Sciences
### COURSE DESCRIPTIONS

#### AHS 245 - Radiologic Technology IV
**Lecture**
- **Prerequisites:** AHS 244.
- **Corequisites:** AHS 246.
- **Description:** Lectures in radiation physics, radiobiology and radiation protection. (3 lecture hours).
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Fall
- **Credit Hours:** 3
- **Department:** Allied Health Sciences

#### AHS 246 - Radiologic Technology IV Laboratory/ Clinic
- **Prerequisites:** AHS 244.
- **Corequisites:** AHS 245.
- **Description:** Introduction and practice in an energized x-ray laboratory to include common procedures using contrast media. Supervised clinical education at an affiliating hospital three days a week. (3 laboratory hours, 24 clinical hours). Laboratory fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Fall
- **Credit Hours:** 6
- **Department:** Allied Health Sciences

#### AHS 247 - Radiologic Technology V Lecture
- **Prerequisites:** AHS 245 and AHS 246.
- **Corequisites:** AHS 248.
- **Description:** Lectures in medical and surgical diseases and an introduction to other imaging modalities including CT scanning. (3 lecture hours). Laboratory fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Spring
- **Credit Hours:** 3
- **Department:** Allied Health Sciences

#### AHS 248 - Radiologic Technology V Laboratory/ Clinic
- **Prerequisites:** AHS 245 and AHS 246.
- **Corequisites:** AHS 247.
- **Description:** Instruction and practice in an energized x-ray laboratory to include specialized views of the skull, selected special procedures, pediatric examinations, mammography and the essentials of a quality control program; supervised clinical education at an affiliating hospital three days a week. (3 laboratory hours, 24 clinical hours) Laboratory fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Spring
- **Credit Hours:** 6
- **Department:** Allied Health Sciences

#### AHS 249 - Radiologic Technology VI Summer Clinical
- **Prerequisites:** AHS 245, AHS 246, AHS 247 and AHS 248
- **Description:** Five days a week, from June to August. Supervised clinical education at an affiliating hospital. (40 clinical hours per week). Lab fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- **Credit Hours:** 5
- **Department:** Allied Health Sciences

#### AHS 251 - Radiation Therapy Lecture I
- **Prerequisites:** AHS 245 and AHS 246.
- **Corequisites:** AHS 245.
- **Description:** Lectures on the rationale of using radiation therapy as a major modality in the treatment of cancer. Emphasis on the principles governing radiosensitivity and normal tissue tolerance. (3 lecture hours)
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Fall
- **Credit Hours:** 3
- **Department:** Allied Health Sciences

#### AHS 261 - Radiation Therapy Lecture I
- **Prerequisites:** AHS 261.
- **Corequisites:** AHS 246.
- **Description:** Introduction to clinical education in radiation therapy technology. Experience is obtained at one of several area hospitals, utilizing a variety of therapy equipment. (16 laboratory hours)
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Fall
- **Credit Hours:** 2
- **Department:** Allied Health Sciences

#### AHS 262 - Radiation Therapy Lecture II
- **Prerequisites:** AHS 261 and AHS 262.
- **Corequisites:** AHS 245.
- **Description:** Lectures on the operating principles of various types of therapy equipment; the rationale for delivering treatments on particular units; introduction to pathology. (3 lecture hours)
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Spring
- **Credit Hours:** 3
- **Department:** Allied Health Sciences

#### AHS 263 - Radiation Therapy Lecture II
- **Prerequisites:** AHS 263.
- **Corequisites:** AHS 245.
- **Description:** Clinical education in Radiation Therapy Technology. Experience is obtained at one of several area hospitals, utilizing a variety of therapy equipment. (16 laboratory hours) Lab fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Spring
- **Credit Hours:** 2
- **Department:** Allied Health Sciences

#### AHS 264 - Radiation Therapy Lecture III
- **Prerequisites:** AHS 264.
- **Corequisites:** AHS 245.
- **Description:** Clinical education at assigned affiliating hospitals. (40 laboratory hours) Lab fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Summer
- **Credit Hours:** 5
- **Department:** Allied Health Sciences

#### AHS 265 - Radiation Therapy Lecture III
- **Prerequisites:** AHS 131, AHS 132 and AHS 263.
- **Corequisites:** AHS 267
- **Description:** Methods of treating cancers with radiation therapy based on anatomic site, histologic grade and normal tissue tolerance. Discussion of borders of treatment fields, dose and treatment. Emphasis on cancers of skin, head and neck, digestive and respiratory systems. (3 lecture hours)
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Fall
- **Credit Hours:** 3
- **Department:** Allied Health Sciences

#### AHS 266 - Radiation Therapy Lecture IV
- **Prerequisites:** AHS 264.
- **Corequisites:** AHS 245.
- **Description:** Clinical education in Radiation Therapy Technology. Experience is obtained at one of several area hospitals, utilizing a variety of therapy equipment. (24 laboratory hours) Lab fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Fall
- **Credit Hours:** 3
- **Department:** Allied Health Sciences

#### AHS 267 - Radiation Therapy Lecture IV
- **Prerequisites:** AHS 267.
- **Corequisites:** AHS 245.
- **Description:** Clinical education at assigned affiliating hospitals. (40 laboratory hours) Lab fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Summer
- **Credit Hours:** 5
- **Department:** Allied Health Sciences

#### AHS 268 - Radiation Therapy Lecture V
- **Prerequisites:** AHS 264.
- **Corequisites:** AHS 245.
- **Description:** Methods of treating cancers with Radiation Therapy based on anatomic site, histologic grade and normal tissue tolerance. Discussion of borders of treatment fields, dose and reaction to treatment. Emphasis of cancers of central nervous system, breast, genitourinary system, and blood forming organs. (3 lecture hours)
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Spring
- **Credit Hours:** 3
- **Department:** Allied Health Sciences

#### AHS 269 - Radiation Therapy Lecture V
- **Prerequisites:** AHS 269.
- **Corequisites:** AHS 245.
- **Description:** Clinical education at assigned affiliating hospitals. (40 laboratory hours) Lab fee applies.
- SUNY GEN ED-n/a; NCC GEN ED-n/a
- Offered: Summer
- **Credit Hours:** 5
- **Department:** Allied Health Sciences

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**Nassau Community College:** https://collegecatalog.ncc.edu/current
ANT 207 - From Chiefdoms to Kingdoms
Description: Tens of thousands of years ago people began to create permanent settlements resulting in major biological, environmental and cultural changes that still resonate around the world. Students will examine the evidence and apply anthropological research methods, concepts and theories to explore the causes and consequences of culture change. GLNW; PLDI; SBS
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Sociology

Arabic

ARA 101 - Beginning Arabic I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. This course is not intended for students of Arabic speaking background. Laboratory fee applies. Laboratory component required. SUNY GEN ED-GFOL; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Foreign Languages

ARA 102 - Beginning Arabic II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002, ARA 101 or equivalent.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required. SUNY GEN ED-GFOL; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Foreign Languages

Art

ART 100 - Introduction to Visual Arts
Prerequisites: (Non-majors only) Completion of remedial courses in English and Reading.
Description: An introduction to the development of the visual arts emphasizing perception and understanding of painting, sculpture, architecture and design, as well as their relationship to the creative process. This is primarily a lecture course. SUNY GEN ED-GHUM; NCC GEN ED-FAPA, HUM, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Art

ART 102 - Art History (Renaissance)
Prerequisites: Completion of remedial courses in English and Reading.
Description: Architecture, sculpture and painting in Western Europe from 1300 to 1600. An examination of the styles of the Renaissance and Mannerism in Northern and Southern Europe. SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Art

ART 104 - Art History (Contemporary)
Prerequisites: Completion of remedial courses in English and Reading.
Description: From 1940 to the present, with special attention given to European and American art. A study of the contributions of individual artists and movements, with an examination of the development of new approaches to form and the creative experience. SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Art

ART 105 - Principles of 2-Dimensional Design
Description: Required of art majors. A foundation course in design on a 2-dimensional surface. This course explores the elements of line, shape, value, color, and texture and principles of design and its relationship to composition. Subject and
COURSE DESCRIPTIONS

content are components of study as well. Students are introduced to a conceptual and visual vocabulary as art applies to the visual arts. Average cost of supplies: $100. Laboratory fee applies.

**ART 106 - Principles of 3-Dimensional Design**

Description: Required of art majors. A foundation course in design in 3-dimensional space. This course explores the elements of line, form, value, color and texture and their application to fine and applied art. This involves 3-dimensional constructions in such materials as board, plaster, clay, plastics, etc. Average cost for supplies: $100. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring

Credit Hours: 3
Department: Art

**ART 107 - Prepress for Commercial Artists**

Prerequisites: ART 133

Description: This course introduces the student to the preparation of computer graphics for commercial printing and production. The basics of the prepress including trapping, impositions, halftones, process and spot colors, paper, and proofs using industry standard applications will be explored. Average cost of supplies: $50. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

Credit Hours: 3
Department: Art

**ART 108 - Advertising Art**

Description: Pre or Concurrent Requisites: ART 130 or permission of the Chairperson. Students are guided through the process of art direction as it applies to the creation of promotional and advertising material. Creative problem solving through the visualization of ideas is applied throughout the various stages of development of thumbnail sketches, roughs, comprehensives and storyboards. Layouts, typography, and illustration are stressed. Average cost of supplies: $100. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring

Credit Hours: 3
Department: Art

**ART 109 - Printmaking I**

Description: This mixed-media course introduces the student to the basic fundamentals and concepts of non-toxic printmaking: the development of an image on a particular surface, the transfer of the image to paper, edition printing, and presentation. Media may include photo and digital transfer, relief prints, silkscreen, intaglio, and monoprints. Emphasis is placed on the student’s exploration of this creative process to produce and develop exciting prints. Average cost of supplies: $100. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring

Credit Hours: 3
Department: Art

**ART 110 - Printmaking II**

Prerequisites: ART 109 or permission of Chairperson.

Description: This course offers an opportunity for the advanced study of non-toxic printmaking as explored through traditional and experimental methods in Printmaking I. Students will develop independent projects and experiment with media and materials. By creating personal projects that reflect printmaking’s versatility in creating a new form of expression, the student may concentrate more fully on a strong portfolio. Average cost of supplies: $100. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

Offered: Spring

Credit Hours: 3
Department: Art

**ART 111 - Drawing I**

Description: A basic course that explores the fundamentals of drawing through the development of both technical skills and concepts. The student’s understanding of composition through the study of line, value and perspective will develop through direct visual observation and the education of the artist’s eye. Students will be encouraged to work with conventional and non-traditional materials and methods. Average cost of supplies: $75. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Art

**ART 112 - Drawing II**

Prerequisites: ART 111 or permission of Chairperson.

Description: This course is designed to further explore the creative process of drawing. Students are encouraged to master advanced skills and search for their own individual focus of expression. Each student will be exposed to new approaches, methods and materials to further enhance his or her drawing experience and art portfolio. Average cost of supplies: $85. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

Offered: Fall, Spring

Credit Hours: 3
Department: Art

**ART 113 - Package Design**

Prerequisites: ART 137 or permission of Chairperson.

Description: Analysis of container design, involving internal surface graphics, for design students who wish to explore functional containers, from egg cartons to compact discs to the box car and paper bag. Emphasis is placed upon functional design and structure. Average cost of supplies: $150. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-HUM

Offered: Fall, Spring

Credit Hours: 3
Department: Art

**ART 114 - Typography for Graphic Design**

Prerequisites: ART 130 or permission of Chairperson.

Description: Students are taught to create designs using visual symbols and type to communicate ideas. This course covers designing letterforms, logos, trademarks, stationery, corporate branding and preparing art for presentation, including the use of various digital scanning and printing devices. Average cost of supplies: $100. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-HUM

Offered: Fall, Spring

Credit Hours: 3
Department: Art

**ART 115 - Painting I**

Description: An introduction to the techniques, mechanics and composition of painting via personal expression. Average cost of supplies: $200. Laboratory fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Art

Nassau Community College: https://collegecatalog.ncc.edu/current
COURSE DESCRIPTIONS

**Department:** Art

**ART 116 - Painting II**
**Prerequisites:** ART 115 or permission of Chairperson.
**Description:** With the skills and understanding of basic painting, Painting II expands material usage and gives further focus on creativity and personal self-expression. Average cost of supplies: $200. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art

**ART 117 - Illustration**
**Prerequisites:** ART 111 or permission of Chairperson.
**Description:** Communicating ideas with focus and clarity through the use of visual materials. Techniques and materials are introduced to give impact to ideas and professional portfolio quality work. Average cost of supplies: $140. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art

**ART 118 - Figure Drawing I**
**Prerequisites:** ART 111 or permission of Chairperson.
**Description:** An extensive study of the human figure, its proportions and constructions, as a subject for artistic and personal expression. Average cost of supplies: $65. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM Offered: Fall
**Credit Hours:** 3

**Department:** Art

**ART 119 - Anatomy and Figure Drawing II**
**Prerequisites:** ART 118 or permission of Chairperson.
**Description:** A continuation of the study of the figure as the subject for artistic expression. Emphasis is on acquiring a sensitivity to subtle anatomical definition. More extensive technical skills are needed for this definition. Average cost of supplies: $100. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-HUM Offered: Spring
**Credit Hours:** 3

**Department:** Art

**ART 120 - Ceramics I**
**Description:** Tools and techniques of hand-building and potters wheel are used to form pottery and related sculptural construction in clay. Students learn a variety of decorative and glazing techniques and an understanding of the processes related to the firing of clay into ceramic. Average cost of supplies: $125. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM Offered: Fall, Spring, Summer
**Credit Hours:** 3

**Department:** Art

**ART 122 - Ceramics II**
**Description:** This course introduces students to the diversified operation of today's art gallery/museum. Regular visits to galleries/museums are required. This course also provides insight into exhibition preparation and installation including behind-the-scenes investigation into planning, art conversation, education goals, curatorial responsibilities, and funding. Students are responsible for transportation and admission fees. SUNY GEN ED-n/a; NCC GEN ED-HUM Offered: Summer
**Credit Hours:** 3

**Department:** Art

**ART 130 - Graphic Design I**
**Description:** Hands-on course in Adobe Photoshop, the most widely used application in digital imaging and photography. Topics include basic design principles, grid structure and typography used in the development of charts, trademark design, landscapes, interiors, portraits, scanning images, and print design. Average cost of supplies: $100. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM Offered: Fall, Spring, Summer
**Credit Hours:** 3

**Department:** Art

**ART 131 - Digital Imaging**
**Prerequisites:** ART 130 or permission of Chairperson.
**Description:** Hands-on course in Adobe Photoshop, the most widely used application in digital imaging and photography. Topics include: image creation and scanning, painting, editing and retouching, image manipulation and resizing, color correction, conversions, layers, filters and image output. Cost of supplies: $100. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-HUM Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art

**ART 133 - Graphic Design II**
**Prerequisites:** ART 130 or permission of Chairperson.
**Description:** A survey course in the history of photography, emphasizing aesthetics, sociocultural history, and technical advances in the field. Major photographers and trends will be analyzed. SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art

**ART 134 - History of Photography**
**Prerequisites:** Completion of remedial courses in English and Reading.
**Description:** A survey course in the history of photography, emphasizing aesthetics, sociocultural history, and technical advances in the field. Major photographers and trends will be analyzed. SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art

**ART 123 - Sculpture I**
**Description:** Designing and construction of sculptures from clay, plaster, wood and metal is a means to symbolic expression. The format of lecture/demonstration, planning, building of the sculpture, individual and group critiques, gallery/museum visits assist students in understanding the role of the artist and the creative process. Average cost of supplies: $125. Laboratory fee applies. SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art

**ART 124 - History of Photography**
**Prerequisites:** Completion of remedial courses in English and Reading.
**Description:** A survey course in the history of photography, emphasizing aesthetics, sociocultural history, and technical advances in the field. Major photographers and trends will be analyzed. SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art

**ART 125 - Ceramics II**
**Description:** This course introduces students to the diversified operation of today's art gallery/museum. Regular visits to galleries/museums are required. This course also provides insight into exhibition preparation and installation including behind-the-scenes investigation into planning, art conversation, education goals, curatorial responsibilities, and funding. Students are responsible for transportation and admission fees. SUNY GEN ED-n/a; NCC GEN ED-HUM Offered: Summer
**Credit Hours:** 3

**Department:** Art

**ART 126 - Introduction to Studio Arts**
**Description:** An introductory course for non art majors that includes a variety of studio arts. They are explored with historical context and emphasis on developing an awareness of materials and processes, sensitivity to design, as well as a creative approach. Average cost of supplies $150. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM Offered: Fall, Spring
**Credit Hours:** 3

**Department:** Art
ART 137 - Computer Illustration
Prerequisites: ART 130.
Description: Adobe Illustrator on the Macintosh is used as a tool for creative expression in the use of illustration techniques to communicate ideas. Technical requirements for printing are also emphasized. Average cost of supplies: $100. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 138 - 3D & Video I
Prerequisites: ART 130.
Description: Hands-on course in creating and composing complete 3D computer generated imagery (CGI). Topics include: NURBS (non-uniform rational B-spline) and polygonal modeling, texturing, lighting, camera positioning and rendering. Average cost of supplies: $100. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 139 - Web Animation and Interactivity
Prerequisites: ART 131 and ART 137.
Description: Advanced animation techniques for web-oriented interactive design using popular vector-based multimedia authoring software in concert with a variety of computer-generated imagery (CGI) and design applications. Students will learn skills required for creating a complete animated and interactive web site in a single software environment. Average cost of supplies: $200. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Art

ART 140 - Graphic Design II
Prerequisites: ART 130 or Permission of Chairperson
Description: Concurrent Requisite: ART 105. Using computers as tools for research and composition, students will survey the global history of visual communications as well as the ways visual elements are used to construct and convey meaning. Historical, cultural, social and technological developments and their impact on the field of graphic design will be studied. An interactive environment for the study of the development and the practical applications of visual imagery will be promoted. Cost of supplies: $100. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 142 - Art Internship
Prerequisites: Permission of the instructor and a minimum of 9 art credits.
Description: Supervised placement of the student in an artist's studio, gallery position or other setting appropriate to student's area of art study, to enable the student to gain work experience that enriches the theoretical concepts developed in the classroom. Students may incur additional travel expense. This course may be taken for credit only once. Open to Art majors only.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Art

ART 145 - Raku and Pit-Firing
Prerequisites: ART 122 or ART 147.
Description: This ceramics course will introduce the student to basic hand building and Raku and Pit-Firing of ceramic pieces that are formed in class. The student will participate in the rapid-fire technique, the quick cool down and the reduction of their pieces. Also explored in this course will be various methods of creating decorative surfaces. Average cost of supplies: $125. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall
Credit Hours: 3
Department: Art

ART 147 - Potter's Wheel
Description: The potter's wheel will be the tool we will be using to make our projects. We will explore various expressive, tactile and intellectual possibilities that are available through the use of this medium. Also explored: a variety of glazing techniques and processes related to firing of clay. Historical references will contribute to students' development of critical thinking skills and creative problem solving. Average cost of supplies: $125. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 159 - Photography I
Description: A basic foundation in the techniques and aesthetics of photography with emphasis on the camera, digital darkroom and portfolio preparation. A dSLR (digital) camera capable of manual operation to be provided by the student. Average cost of supplies: $225 (does not include dSLR camera). Laboratory fee applies. Students who have completed ART 125 will not receive credit for ART 159.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Art

ART 160 - Black and White Darkroom
Description: A traditional black and white photography course utilizing film cameras and traditional darkroom techniques. Emphasis is on creativity, aesthetic considerations and the development of a personal photographic vision through class assignments, individual photographic projects, and portfolio development. Students to provide a 35-mm manually operated camera. Average cost of supplies: $275. Laboratory fee applies. Students who have completed ART 225 will not receive credit for ART 160.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 201 - Survey of Art History I
Prerequisites: Completion of remedial courses of English and Reading.
Description: The development of architecture, painting and sculpture from their origins in Prehistory through the cultures of Ancient Egypt, the Middle East, Greece, Rome, and in Western Europe, from the time of Constantine to the end of the Middle Ages. SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Art

ART 202 - Survey of Art History II
Prerequisites: Completion of remedial courses in English and Reading.
Description: The development of painting, sculpture, and architecture from the Renaissance to the twentieth century. This course explores the history of Western art from both contextual and formal art historical perspectives.
SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH
COURSE DESCRIPTIONS

Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Art

ART 203 - Art Beyond the West
Prerequisites: Completion of remedial English and Reading is required.
Description: This course is a survey of selected historical topics drawn from the following non-western cultures: India, China, Southeast Asia, Japan, Oceania, Africa, Pre-Columbian Americas. Representative works of painting, sculpture, crafts, and architecture from selected cultures will be examined in the context of the religious, social, economic, and/or political forces that shaped them.
SUNY GEN ED-n/a; NCC GEN ED-HUM, GLNW
Offered: Spring
Credit Hours: 3
Department: Art

ART 222 - Ceramics II
Prerequisites: ART 122 or ART 147.
Description: Build upon prior hand building and/or potter's wheel techniques as a means to creating pottery or related sculptural constructions in clay. Glaze formulation and experience with operation of gas and electric kilns. Average cost of supplies: $125. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 223 - Sculpture II
Prerequisites: ART 123 or permission of Chairperson.
Description: Students build on skills, techniques and knowledge acquired in Sculpture I. They are encouraged to develop individual ideas into sculptural compositions and acquire related skills to verbally assess both the emerging work and the completed sculpture. Average cost of supplies: $125. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Art

ART 226 - Experimental Photography
Prerequisites: ART 159 and ART 160.
Description: Advanced photographic and darkroom techniques and manipulative effects including black and white, color and digital photographic processes. Emphasis will be on creative expression and interpretation of ideas through alternative and experimental techniques. Students to provide their own cameras. Average cost of supplies: $225. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Art

ART 227 - Studio Photography
Prerequisites: ART 159
Description: This course offers students a broad foundation in studio photography with an emphasis on portraiture and still life. Students will have the opportunity to use multiple professional lighting technologies and photographic formats including electronic flash systems, quartz halogen and tungsten as well as medium format digital capture. All camera formats from 35mm - 4" x 5" may be used. Strong emphasis will be placed on project development, critical thinking and problem solving techniques. Average cost of supplies: $275. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 228 - Documentary Photography
Prerequisites: ART 159
Description: This course introduces students to the development and production of short and long term documentary projects. Through a mix of still photography and media based production students engage with current events, cultural trends and historical perspectives while addressing the most effective story telling techniques. Included in as overview of the techniques and styles, history and ethics of the practice and application of a documentary photography. Average cost of supplies: $275. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 229 - View Camera
Prerequisites: ART 159 and ART 160.
Description: This intermediate level course offers students a broad and immersive experience with large format photography. Students will use 4" x 5" Field and View cameras as a means to explore camera movements, exposure, sheet film development, gelatin-silver printing, high end digital scanning and advanced inkjet printing techniques. Strong emphasis will be placed on project development, critical thinking and problem solving techniques. Cameras will be provided for student use. Average cost: $350. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 3
Department: Art

ART 230 - Digital Photography II
Prerequisites: ART 159.
Description: This course builds upon the principles and techniques covered in Digital Photography I by incorporating the application of color as an aesthetic and thematic consideration. Adobe Lightroom, Adobe Photoshop and basic calibration techniques from the foundation from which students explore their photographic production. Average cost of supplies: $225. Laboratory fee applies.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 231 - Digital Photography III
Prerequisites: ART 230
Description: This course builds upon the principles and techniques covered in Digital Photography II and will provide students with a strong foundation in digital printing techniques. Emphasis will be placed on critical thinking skills and project development as they are informed by advancements and techniques in photographic imaging. Topics include: image editing software, color management, profile creation and workflow techniques as they relate to specific output processes. Average cost of materials: $350. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Art

ART 237 - Digital Video and Special Effects
Prerequisites: ART 130
Description: Hands on course in digital video and special effects using live video footage and computer-generated imagery (CGI). Topics include: digitizing video, editing, creating titles, compositing and visual effects. Traditional concepts such as storyboarding,
lighting and camera work will also be covered. Students will create finished commercial or creative video shorts and learn how to present these on the World Wide Web or DVD. Average cost of supplies: $100. Laboratory fee applies.

**SUNY GEN ED-GART; NCC GEN ED-HUM**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

**ART 238 - 3D & Video II**

**Prerequisites:** Minimum grade of "C" in ART 138.

**Description:** Hands-on course in 3D computer Animation. Topics include: animated logos, motion paths, camera movement, particle systems, simulated physics and character rigging. Students will learn about scripting, storyboarding, recording animations and integrating computer-generated imagery (CGI) with other applications. Average cost of supplies: $100. Laboratory fee applies.

**SUNY GEN ED-GART; NCC GEN ED-HUM**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

**ART 239 - Web Design I**

**Prerequisites:** ART 130, ART 131, ART 137 and ART 140 or Permission of Chairperson.

**Description:** This course will investigate the application of interactive design, composition and narrative for the purpose of creating websites. Students will conceptualize and produce web pages using popular web authoring software. Emphasis will be on the integration of various visual and narrative elements into a rich user experience. Average cost of supplies: $100. Laboratory fee applies.

**SUNY GEN ED-GART; NCC GEN ED-HUM**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

**ART 240 - Portfolio Workshop**

**Prerequisites:** ART 133 and ART 239 or Permission of the Instructor, for Art Majors Only. Must be taken in the last semester.

**Description:** Research, creation and completion of a professionally relevant major project in a chosen medium (print portfolio, computer animation or an interactive multimedia program). Average cost of supplies: $250. Laboratory fee applies.

**SUNY GEN ED-GART; NCC GEN ED-HUM**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

**ART 249 - Web Design II**

**Prerequisites:** ART 239.

**Description:** This course will focus on creativity in digital and multimedia art using advanced techniques and authoring tools to create professional animations, websites, and games. There will be a strong emphasis on typography, graphics, animation, special effects, sound and video to create dynamic and user-friendly interface design for a large target audience. Average cost of supplies: $100. Laboratory fee applies.

**SUNY GEN ED-GART; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

**ART 295 - Independent Study-Art**

**Prerequisites:** Students must have satisfied all ENG and RDG 001 remediation requirements prior to starting the course.

**Description:** This course explores the communication and culture of Deaf people. It focuses on a unique human communication phenomenon- a community with a communication and cultural system that is not based on a spoken language. The relationship between communication and culture is examined through analysis of the different aspects of the Deaf culture and community, including language, history, the arts, norms, values, traditions and customs of the Deaf community and its interaction with a hearing-dominant society. This course will be conducted in English; knowledge of American Sign Language is not required.

**SUNY GEN ED-GFOL, GHUM; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

**American Sign Language**

**ASL**

**ASL 152 - American Sign Language I**

**Prerequisites:** Students must have satisfied all ENG and RDG 001 remediation requirements prior to starting the course.

**Description:** An introduction to American Sign Language, the natural language of the Deaf community in the United States and Canada. Focuses on conversation, fingerspelling, basic rules of grammar and vocabulary, phrases and conversational skills; use of Non-Manual Markers; continued fingerspelling practice. Laboratory component and attendance at Deaf community events required.

**SUNY GEN ED-GFOL, GHUM; HUM; NCC GEN ED-n/a**

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Communications

**ASL 226 - Communication and Culture in the Deaf Community**

**Prerequisites:** Students must have satisfied all ENG and RDG 001 remediation requirements prior to starting the course.

**Description:** This course explores the communication and culture of Deaf people. It focuses on a unique human communication phenomenon- a community with a communication and cultural system that is not based on a spoken language. The relationship between communication and culture is examined through analysis of the different aspects of the Deaf culture and community, including language, history, the arts, norms, values, traditions and customs of the Deaf community and its interaction with a hearing-dominant society. This course will be conducted in English; knowledge of American Sign Language is not required.

**SUNY GEN ED-GFOL, GHUM; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Communications

**ASL 252 - American Sign Language III**

**Prerequisites:** ASL 153 or permission of instructor. Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

**Description:** A continuation of American Sign Language II, expanding the emphasis on ASL grammar and vocabulary development and Deaf culture. Dialogues, short stories, narratives and short conversations, both receptive and expressive, will be featured throughout the course. Laboratory component and attendance at Deaf community events required.

**SUNY GEN ED-GFOL, GHUM; HUM; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Communications

**ASL 253 - American Sign Language IV**

**Prerequisites:** ASL 252 or permission of the instructor. Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

**Description:** An advanced course in American Sign Language (ASL) designed to provide interactive opportunities for students to continue development of their...
Biology

BIO

BIO 101 - Introduction to College Biology I
Description: Life processes are studied to develop an understanding of structures and functions of organisms. Major topics include the scientific method, cell structure and function, and a survey of human anatomy and physiology. Laboratory includes the dissection of a typical vertebrate. When paired with BIO 102 Introduction to College Biology II, these two courses provide two semesters in introductory biology with laboratory components for the non-science major. Note: Prior to Fall 2018, this course was entitled “General Biology I” (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Biology

BIO 102 - Introduction to College Biology II
Description: A survey course which explores the basic biological principles of reproduction and development, classical and molecular genetics, evolution, behavior and ecology. The diversity of life is examined in the laboratory as well as through field trip experiences. When paired with BIO 101 Introduction to College Biology I, these provide two semesters in laboratory science for the non-science major. Note: Prior to Fall 2018, this course was entitled “General Biology II” (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Biology

AST

AST 101 - Solar System Astronomy
Description: The historical development of the physical laws and theories basic to the study of the solar system is studied. Physical characteristics of the earth, moon, planets and sun are discussed, including findings of unmanned planetary exploration. Students are required to attend at least two evening observation sessions during the semester. Students gain a working knowledge of the operation of a telescope. (3 lecture, 3 laboratory hours) Lab fee applies. Note: A special Hybrid section of Solar System Astronomy may be offered each semester. This distance-learning course uses the internet, computers and other electronic media to complete the course assignments. Therefore, students must have access to a computer. Students will occasionally meet with the instructor on campus to perform laboratory experiments and take exams. Lab fee applies. Formerly SCI 105. Students who have completed SCI 105 will not receive credit for AST 101.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Physical Sciences

AST 102 - Stellar & Galactic Astronomy
Description: The student is introduced to the historical development of theories basic to understanding the concepts of the universe beyond the solar system and studies the evolution of stars and galaxies in terms of observations. Included are discussions of quasars, pulsars, black holes and the Big Bang Theory. Students are required to attend at least two evening observation sessions during the semester. (3 lecture, 3 laboratory hours) Lab fee applies. Formerly SCI 106. Students who have completed SCI 106 will not receive credit for AST 102.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Physical Sciences
cellular levels of life. Topics such as cell structure, metabolism, molecular genetics, cell division and control mechanisms are discussed. The second semester deals with life on the organism through the ecosystem levels. Plant and animal systems are examined in the context of their role in evolution and the environment. The diversity of life is examined in the laboratory as well as through field trip experiences. The laboratory includes a dissection of more advanced invertebrates and selected vertebrates. Note: Prior to Fall 2018, this course was entitled "Principles of Biology II". (3 lecture, 3 laboratory hours) Laboratory fee applies to each course.

**SUNY GEN ED-GLAB; NCC GEN ED-LSCI**

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Biology

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**BIO 115 - Human BioNutrition**

**Description:** (Formerly BIO 111 / BIO 112) Nutrition is explored as an emerging science that combines biology and chemistry into an exciting field of specialization. This course is designed to explore the physiological mechanisms of nutrient metabolism and their interactions on human cellular biology. The characteristics and functions of nutrient groups are studied in their relation to their biological requirements and proper balance. Special attention is given to the relationship between an unbalanced diet, an altered metabolism and the disease process. Also considered are the unique biological features of each of the stages of life and their effect on nutrient requirements. (3 lecture, 3 laboratory hours) Laboratory fee applies.

**SUNY GEN ED-GLAB; NCC GEN ED-LSCI**

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Biology

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**BIO 116 - Human Genetics**

**Description:** (Formerly BIO 105 / BIO 106) Human Genetics examines the basic concepts of DNA and normal and abnormal gene function in human development and life. A point of emphasis is the relationship between genetic material and environmental impacts, including radiation, chemicals and viral infection. Genetic engineering, birth defects, DNA fingerprinting, gene therapy, cancer and the human problems associated with these subjects are discussed. Laboratory exercises involve work with living organisms. (3 lecture, 3 laboratory hours) Laboratory fee applies.

**SUNY GEN ED-GLAB; NCC GEN ED-LSCI**

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Biology

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**BIO 118 - On Becoming Human**

**Description:** (Formerly BIO 113 / BIO 114) A biological examination of what it means to become a human. The course traces the development of human form and function from conception to birth through lectures, discussions and laboratory experiences on human genetics, reproduction, development, and birth. (3 lecture, 3 laboratory hours) Laboratory fee applies.

**SUNY GEN ED-GLAB; NCC GEN ED-LSCI**

**Offered:** Spring

**Credit Hours:** 4

**Department:** Biology

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**BIO 119 - Oceanology**

**Description:** (Dual listed with GLY 106) The course is designed as an overview of the structure, origin, and evolution of the world's oceans. Investigations will include analysis of abiotic factors such as sediments, coastlines, water properties, and movement. Students will take a close look at general water circulation, tides, currents, waves, and the effects of weather and climate. Further investigations will focus on biotic factors such as marine organisms, food chains, resources, and man's relationship to the sea. Note: This is a three-credit course and does not fulfill the laboratory science requirement needed for graduation. There will be no waivers issued under any circumstances. (3 lecture hours)

**SUNY GEN ED-GLAB; NCC GEN ED-NSCI**

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Biology

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**BIO 120 - Birds and the Environment**

**Prerequisites:** One semester of college biology or permission of the Department.

**Description:** The anatomy, physiology, and behavior of birds will be studied in context of their environments. Classification and evolution of birds are also discussed. Laboratory exercises involve dissection, field trips, and individual investigative projects involving data collection and analysis. Field trips include representative Long Island habitats: marine, fresh water, woods, and fields. (3 lecture, 3 laboratory hours) Laboratory fee applies.

**SUNY GEN ED-GLAB; NCC GEN ED-LSCI**

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Biology

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**BIO 124 - Plants and Society**

**Description:** This course surveys the various groups of plants, their structures and functions, their ecology and economic importance. Students will apply botanical concepts to understand the greenhouse effect, organic gardening, transgenic plants, medicinal uses of plants, and conservation of natural resources. The Laboratory component requires students to perform research and participate in ongoing investigative projects by using the scientific processes to construct hypotheses, design experiments, evaluate data, and draw conclusions. (3 lecture, 3 laboratory hours - including field trips) Laboratory fee applies.

**SUNY GEN ED-GLAB; NCC GEN ED-LSCI**

**Offered:** Fall, Summer

**Credit Hours:** 4

**Department:** Biology

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**BIO 125 - Introduction to Marine Science**

**Description:** An introductory level course dealing with Marine Science. It provides a framework for illustrating biological principles and processes. Aspects taught include ecology, diversity of plants and animals, marine communities and habits, and current issues and topics related to human intervention. Laboratory emphasis is on observation, sampling, and studies of marine animals and plant communities. Field trips are a required portion of the course. (3 lecture, 3 laboratory hours) Laboratory fee applies.

**SUNY GEN ED-GLAB; NCC GEN ED-LSCI**

**Offered:** Fall, Spring

**Credit Hours:** 4

**Department:** Biology

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**BIO 130 - Molecules & Medicines**

**Description:** The course includes basic chemistry, history of healing plants, medicinally active ingredients of plants, and modes of action of traditional and modern medicines on the human physiology. The laboratory component requires students to perform research, test common myths using the scientific processes, analyze data, and participate in other investigative exercises.
BIO 165 - Natural History of Long Island
Prerequisites: High School biology or similar course experience.
Description: The course aims at expanding the student's knowledge about Long Island's ecological diversity. During field trips students will investigate the factors affecting the preservation of several natural ecosystems in proximity to the College. Critical thinking skills, class discussions and natural science methodology will be combined for the production of photo-essays exploring Long Island's plant and animal communities. The impact of commercial development on ecological balance, and items in local news, provide the themes for class projects. Students must have a camera and are responsible for their own transportation to, from and around field sites. (3 lecture, 3 laboratory hours for 7 1/2 weeks. This is a half semester course that may be taken in sequence with BIO 162 for 4 credits). High school biology or similar experience recommended. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Biology

BIO 162 - Animal Ecology
Prerequisites: High School biology or similar course experience.
Description: The fundamental principles of ecology are presented through habitat explorations. Patterns of animal behavior (ethology) along with the physical specializations adapting wildlife to their habitats are emphasized. Working with locally found living vertebrate and invertebrate species students will produce photo-essay investigations of assigned wildlife topics. Students must have a camera and are responsible for their own transportation to, from and around field sites. (3 lecture, 3 laboratory hours for 7 1/2 weeks. This is a half semester course that may be taken in sequence with BIO 165 for 4 credits.) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Biology

BIO 200 - Experimental Research Methods
Prerequisites: Completion of all English, reading, math remediation courses and a Natural or Physical Science sequence: AHS131 and AHS132 or, BIO109 and BIO110 or, CHE151 and CHE152 or, PHY101 and PHY102 or, PHY151 and PHY 152.
Description: (Dual listed with SCI 200) This course introduces processes involved in completing the scientific method during experimentation and presentation of related research findings. Students will review theories and facts using prior works and identify literature which leads to further questioning and modification of original ideas. Students will explore the fundamentals of planning research experimentation including time management, theoretical frameworks, and logic of inquiry. Students will learn scientific thinking and writing skills necessary to communicate research findings. The course will also examine effective measures for presenting learned information (either via literature review or experimentation) including abstract writing, verbal presentations and written representations of works as a publishable work, thesis, or dissertation. It will also examine safety guidelines and ethical standards. Laboratory work will include explorations into the scientific method, experimental design and data collection. With an emphasis on applied learning, students will conduct research in the area of their choosing. NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Biology

BIO 201 - Anatomy
Prerequisites: BIO 101 and BIO 102 or BIO 109 and BIO 110 with a grade of C or better in each course, or permission of the Department.
Description: This course is an exploration of the intricate structure of the human body. The student studies the various tissues, organs, and systems which function together to maintain life. The laboratory includes dissection of a representative mammal - the cat. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI
Offered: Fall, Summer
Credit Hours: 4
Department: Biology

BIO 202 - Physiology
Prerequisites: BIO 201 with a grade of C or better, or permission of the Department.
Description: A study of the normal functions of the human organism. The student surveys the various systems of the body, their activities and interrelationships. Much of the laboratory work involves measurement of human body functions. Combined with BIO 201, this course is an excellent introduction to anatomy and physiology. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEB ED-GLAB; NCC GEN ED-LSCI
Offered: Spring, Summer
Credit Hours: 4
Department: Biology

BIO 203 - Oceanography
Prerequisites: A one year college level science course or permission of the Department.
Description: An introduction to the interactions of the chemical, geological, physical, and biological processes of the marine environment. Laboratory emphasis on observation, sampling techniques and analytical procedures. Field trips are a required portion of course. (3 lecture, 3 laboratory hours, including field trips) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: On Occasion
Credit Hours: 4
Department: Biology

BIO 204 - Marine Biology
Prerequisites: Need either BIO 101, BIO 102, BIO 103, BIO 104, BIO 109, BIO 110, BIO 115, BIO 116, BIO 118, BIO 119, BIO 120, BIO 124, BIO 130, BIO 131, BIO 162, BIO 165, BIO 203; CHE 107, CHE 108, CHE 131, CHE 132, CHE 135; SCI 101, SCI 102, SCI 108, SCI 109, SCI 110, SCI 120 or permission of the Department.
Description: This course provides an introduction to the plant and animal communities inhabiting shallow and deep North Atlantic marine waters. Emphasis is placed on diversity of adaptations for interaction with the varied salt water environments. Field trips are a required portion.
COURSE DESCRIPTIONS

of course. (3 lecture, 3 laboratory hours, including field trips) Laboratory fee applies. SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: Fall, Summer
Credit Hours: 4
Department: Biology

BIO 209 - Principles of Nutritional Science
Prerequisites: BIO 109 and BIO 110 Reco
Description: Prerequisites: BIO 109 and BIO 110
Recommended for science majors, the course includes such topics as the digestion, absorption, and function of nutrients. Regulatory mechanisms that influence the requirements and metabolism of nutrients are considered.
SUNY GEN ED-n/a; NCC GEN ED-LSCI Offered: On Occasion
Credit Hours: 4
Department: Biology

BIO 210 - Current Concepts in Nutritional Science
Prerequisites: BIO 109 and BIO 110 (maybe co-requisite) or AHS 131 and AHS132 (maybe co-requisite) or permission of the Department
Description: This course examines nutritional physiology and pathophysiology. Topics explored include the effects of nutrients on metabolism at the molecular, cellular, and systemic levels, including special metabolic needs during growth, reproduction, stress, and senescence, as well as, current theories and controversies in the field of nutritional science. Students will critically analyze and evaluate nutritional research, identifying trends and the influence they have on health promotion and disease prevention. As of Fall 2017 students who have completed BIO226 will not receive credit for BIO210.
SUNY GEN ED-n/a; NCC GEN ED-NSCI Offered: On Occasion
Credit Hours: 3
Department: Biology

BIO 211 - Developmental Biology
Prerequisites: BIO 101 and BIO 102 or BIO 109 and BIO 110 or permission of the Department.
Description: This course explores the molecular, cellular and genetic processes of invertebrate and vertebrate development from fertilized egg to multicellular organism. The evolution of developmental mechanisms will also be discussed. A comparative study of invertebrate and vertebrate embryos will be included in the laboratory. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: Spring
Credit Hours: 4
Department: Biology

BIO 212 - Comparative Anatomy
Prerequisites: BIO 101 and BIO 102 or BIO 109 and BIO 110 or permission of the Department.
Description: An intensive course dealing with the anatomy of various vertebrates. Through a study of the present anatomical structures, the evolutionary development of these animals is outlined. Differences and similarities of organ systems from various species are discussed. (3 lecture, 3 laboratory hours) Laboratory fee applies. Generally offered spring.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: Spring
Credit Hours: 4
Department: Biology

BIO 214 - Microbiology
Prerequisites: BIO 101 - BIO 102 or BIO 109 - BIO 110 or permission of the Department.
Description: This course examines the morphology, physiology, structure, genetics, and metabolism of microorganisms, including the roles played by microorganisms in medical, environmental, agricultural, and biotechnological sciences. The laboratory deals with the culture and study of microorganisms, the dynamics of microbial growth, and the physiological basis of bacterial identification. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Biology

BIO 215 - Histology
Prerequisites: BIO 101 - BIO 102 or BIO 109 - BIO 110 or permission of the Department.
Description: Exploration of the microscopic structure of the human body. An appreciation is developed of the interactions of cells and tissues which result in a harmonious, complex body. Laboratory examination of the structure of cells, tissues, and organs of the body. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: On Occasion
Credit Hours: 4
Department: Biology

BIO 216 - Parasitology
Prerequisites: BIO 101 - BIO 102 or BIO 109 - BIO 110 or permission of the Department.
Description: This course investigates the lives of animal parasites of medical, veterinary and economic importance. The habitats, life cycles, geographic distribution and underlying principles of transmission, diagnosis, treatment and prevention are considered. Through the use of prepared microscope slides and living materials, the student is given the opportunity to view and study a wide variety of parasitic organisms. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI Offered: Fall
Credit Hours: 4
Department: Biology

BIO 219 - Field Biology
Prerequisites: BIO 101 - BIO 102 or BIO 109 - BIO 110 or permission of the Department.
Description: A habitat approach involving field trips is used for the investigation of the interactions of living organisms with their physical and biological environments. Emphasis is given to population dynamics and the interactions among organisms that determine the structure, function, and evolutionary development of biological communities. Studies are carried out in specific habitats such as bog, marsh, forest, field, and estuary. Specially marked sections of this course may be run at offsite locations or abroad. Students are responsible for their own transportation to, from and around field sites. (3 lecture, 3 laboratory hours). Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI Offered: On Occasion
Credit Hours: 4
Department: Biology

BIO 221 - Transmission Electron Microscopy
Prerequisites: BIO 109 - BIO 110, CHE 151 - CHE 152 or equivalent, or permission of the Department.
Description: An introduction to the basic principles of transmission electron microscopy including tissue preparation, microscope (TEM) operation, black and white photography, and micrograph interpretation. The entire laboratory is devoted to the development of skills and preparative techniques involved with the operation of an actual transmission electron microscope. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI
BUS 100 - Creative Problem Solving in Business
Description: This course will assist students in developing the skills required for success in business and in upper-level coursework. Various forms of active learning techniques will be employed to develop and improve those skills viewed by the business community as essential for success in the workplace. These skills include the ability to communicate effectively, work in teams/groups to solve business problems, research information, and think creatively and critically in solving business problems.
SUNY GEN ED-n/a; NCC GEN ED-LSCI
Offered: Fall, Spring
Credit Hours: 3
Department: Accounting and Business Admin

BUS 109 - Introduction to Corporate Business
Description: The course is an introduction to the role of corporate business as a primary source of goods, services, employment, and income. It provides beginning business students and non-business majors with an understanding of the basic scope of corporate business and its relationship to government and society. Students will have a "hands-on" corporate experience to learn the operations and activities of a major corporation as an additional component to the course.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Accounting and Business Admin

BUS 112 - Principles of Management
Description: An examination of the character and structure of modern business organizations; how individuals and groups within these organizations conduct themselves as they strive for personal and enterprise goals. Topics covered include planning, organizing, directing and controlling functions of managers; human relations and motivation; financial and non-economic considerations which provide the basis of decision making. Students are involved in experiencing a combination of textbook theory and current business practices through problem solving techniques.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Accounting and Business Admin

BUS 114 - Introduction to International Business
Description: An introduction to the challenges and problems faced by American firms in conducting business in world markets. The course will expose students to the concepts and principles dealing with world trade, foreign environments, global operations and the necessary global managerial skills required for success in such activities.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
COURSE DESCRIPTIONS

Credit Hours: 3
Department: Accounting and Business Admin

BUS 116 - Business Internship
Prerequisites: Permission of Department Chairperson.
Description: Students work for appropriate business firms, institutions and/or agencies to enrich the theoretical concepts previously developed in the classroom. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 3
Department: Accounting and Business Admin

BUS 118 - Franchising Management
Description: This course is designed for students who are interested in starting and managing a franchise business, either as a franchisee or as a franchisor. Attention is placed on the characteristics of the franchisor and franchisee; evaluation of franchising opportunities; raising of resources; legal concerns of franchising; and the development of appropriate strategies and the successful planning, implementation and launching of a new business.
SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3
Department: Accounting and Business Admin

BUS 120 - Management in Health Systems
Prerequisites: None.
Description: An overview of the challenges and issues facing business professionals in the area of health care management. This course will introduce students to issues such as effective healthcare management, health systems and health care services and organizations.
SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3
Department: Accounting and Business Admin

BUS 140 - Human Resource Management
Description: Principles of effective human resource administration are discussed in this course. Topics include the human resources department and its objectives, management-labor relations with special references to elements affecting recruitment, selection, training, evaluation and compensation.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 3
Department: Accounting and Business Admin

BUS 150 - Organizational Behavior
Description: An introductory course that will provide future managers with basic information about employees and their behavior within the context of a business environment. Topics include motivation, communication, decision making, group behavior, team development, conflict, change, empowerment, leadership styles, power, authority, work design, performance appraisal and reward systems.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 6
Department: Accounting and Business Admin

BUS 289 - Adv International Business
Description: An examination of the distinctive management challenges and opportunities of companies operating in more than one country. The course provides an overview of the growing role of business with its political, legal, cultural and economic influences on the rapidly changing international scene. Students are involved in independent research after visits to multinational companies, foreign banking systems, government controlled businesses, and foreign financial and economic centers. Special expenses for students include airfare to and from foreign countries, food, lodging, taxes and transfers for approximately two weeks. Not offered every semester. Formerly BUS 800. Students who have completed BUS 800 will not receive credit for BUS 289. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3
Department: Accounting and Business Admin

BUS 299 - Independent Study-Business
Credit Hours: 3
Department: Accounting and Business Admin

Civil Engineering Technology

CET

CET 101 - Residential Construction Methods
Description: Students learn the types and organization of construction projects. Content includes the materials used in construction: concrete, steel, masonry, and wood; interior finishes, plumbing and electrical systems related to construction; methods of testing, excavation, foundation construction and superstructure erection. State and local codes, code administration and construction safety are also discussed. Films and individual projects are required. (1 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
COURSE DESCRIPTIONS

Credit Hours: 2
Department: Engineering/Physics/Tech
CET 103 - Introductory Civil Engineering Technology
Description: An introductory course in the art of engineering designed to acculturate the students to the engineering profession and to acquaint them with the techniques and methodologies of engineering design. The "design" aspect of the course consists of an introduction to computer integration (as it applies to the engineering profession), graphical techniques, and design oriented problems using analysis software. The objectives of the design section entail the generation of engineering related problems. (1 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Engineering/Physics/Tech
CET 107 - Codes and Construction
Prerequisites: Enrollment in the Interior Design or Construction Management program, or permission of Department.
Description: Overview of practice and materials of construction, building types and structural framing. Instruction on the development and use of the current New York State Uniform Fire Prevention and Building Code, the 1992 Americans with Disabilities Act and their relation to residential and commercial uses of space. Instruction on fire codes related to materials used in interior design. (2 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech
CET 111 - Structural Drawing I
Prerequisites: ENS 105.
Description: Drawing of plans and details used in building construction. Development of drafting techniques and standards, using AutoCAD computer drafting software. (1 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Engineering/Physics/Tech
CET 150 - Blueprint Reading
Description: Introduction to blueprint reading for building construction. Study and interpretation of building plans; architectural, mechanical and electrical. Estimating theory and quantity takeoff. (2 lecture, 2 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech
CET 201 - Construction Estimating
Prerequisites: CET 101, CET 103 and CET 150.
Description: Estimating costs of building construction. Practice in finding required material quantities from drawings. Procedures for estimating labor, material, and equipment costs. Scheduling of construction by CPM (Critical Path Method) including the use of estimating software. (1 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Engineering/Physics/Tech
CET 211 - Structural Drawing II
Prerequisites: CET 111.
Description: Development of data and preparation of drawings used in building construction and civil engineering, using Auto CAD computer drafting software. (1 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 2
Department: Engineering/Physics/Tech
CET 218 - Statics of Structure
Prerequisites: MAT 109.
Description: Resultants and equilibrium of coplanar force systems; trusses and three force members; force systems in space; friction, centroids and moments of inertia of composite areas. (2 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech
CET 219 - Mechanics of Materials
Prerequisites: CET 218.
Description: Stress and strain in elastic bodies when subject to external tensile, compressive, shear and torsion forces. Beam reactions, shears, bending moment diagrams and deflections, by the moment-area method are determined. Column analysis; introduction to indeterminate structure.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech
CET 222 - Materials Testing Laboratory
Corequisites: CET 219.
Description: Determination of physical properties of construction materials. Standard tests used on the American Society of Testing Materials and the American Concrete Institute standards including report writing software. (3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 1
Department: Engineering/Physics/Tech
CET 223 - Structural Steel Design
Prerequisites: CET 219.
Description: Analysis of statically determined structures. Design and investigation of structural steel members; columns, beams, trusses, and girders. Bolted, riveted, and welded connections reactions, shear, bending moment and deflection by analytic and graphical methods, including the use of design software. (2 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3
Department: Engineering/Physics/Tech
CET 225 - Soils and Foundations
Prerequisites: CET 219.
Description: The course is an introduction to soil mechanics with application to problems encountered in construction and design. Topics include soil origin and nature, soil properties, field sampling, gradation, compaction, classification, permeability, soil strength. Laboratory experiments include the classification and evaluation of engineering properties of soil for predicting its behavior in accordance with ASTM and AASHTO specifications. The course also covers the structural design of foundations such as retaining walls, grade beams and footings. (3 lecture, 2 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3
Department: Engineering/Physics/Tech
CET 231 - Elementary Surveying
Prerequisites: MAT 109.
Corequisites: ENS 105
Description: Basic principles of plane surveying. Field practice and office procedures. Use of level, transit, stadia, electronic theodolite and total station. Use of
survey computation software for determination of horizontal and vertical controls and areas. Mapping of selected areas. (2 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

CET 232 - Route Surveying
Prerequisites: CET 231.
Description: Field and office procedures in layout of highways, railroads, and pipelines. Profile leveling, horizontal and vertical curves and alignment. Mapping, plotting profiles and cross sections. Cut and fill computations. Principles of field astronomy. Computations using defined software. (2 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall
Credit Hours: 3
Department: Engineering/Physics/Tech

CET 240 - Hydraulics
Prerequisites: CET 219 or PHY 101.
Description: The course studies fundamental properties and behavior of fluids under static and flow conditions. Topics covered include hydrostatic force, buoyancy, pressure, manometry, continuity and energy equations, laminar and turbulent flow, losses, flow through pipes and open channels, and flow measurements, as well as an introduction to surface water hydrology. The rational method is used to determine peak flows. Laboratory experiments study the principal physical properties of liquids and major laws of fluid mechanics. (3 lecture, 2 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring, Summer
Credit Hours: 3
Department: Engineering/Physics/Tech

CET 250 - Construction Planning and Scheduling
Prerequisites: CET 101, CET 103 or permission of the Department Chairperson.
Corequisites: CET 101, CET 103 or permission of the Department Chairperson.
Description: Concepts and methods for planning and scheduling of operations and resources on construction projects. Topics include Gantt charts, progress curves, critical path methods and project networking techniques. Extensive use of computer software to aid the student in planning and analysis of scheduling, resource management and updating construction operations. (2 lecture, 2 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall
Credit Hours: 3
Department: Engineering/Physics/Tech

CET 252 - Construction Safety
Prerequisites: CET 101 or permission of the Department Chairperson.
Description: Introduction to occupational safety and health practices in the construction industry. Course provides an overview of U.S. Department of Labor, Occupational Safety and Health 1926 Standards for the construction industry. Course work includes a detailed study of construction safety management. Topics include personal protective equipment, hazardous communications, site safety management, inspection and supervision for erection and demolition of structures.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall
Credit Hours: 3
Department: Engineering/Physics/Tech

CET 254 - Mechanical and Electrical Equipment for Buildings
Prerequisites: CET 101 or permission of the Department Chairperson.
Description: Introduction to the basic concepts of mechanical systems design and construction for residential and commercial buildings. Systems design and equipment selection is performed for heating, cooling, plumbing, sanitation, electrical lighting and acoustics. Emphasis is placed on the use of the International Building code and A.S.H.R.A.E Standards.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

CET 256 - Construction Contracts and Specifications
Prerequisites: CET 101 or permission of the Department Chairperson.
Description: Introduction to building construction contract documents. Student is exposed to contract law, general conditions of the contract and construction specifications using the Construction Specifications Institute Standards. Analysis of owner, designer, and contractor responsibilities under contract.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring
Credit Hours: 2
Department: Engineering/Physics/Tech

CET 260 - Construction Project Management
Prerequisites: CET 101, 201 or permission of the Department Chairperson.
Description: Corequisites: CET 250
Introduction to methods and techniques of managing construction projects. Construction business organization, contracts, bonding, insurance, construction site supervision, labor law and labor relations. Introduction to computer applications in project administration. (2 lecture, 2 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

CET 295 - Independent Study-CET
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly CET 699. Students who have completed CET 699 will not receive credit for CET 295.
Credit Hours: 3
Department: Engineering/Physics/Tech

Chemistry

CHE

CHE 107 - Introduction to Chemistry
Prerequisites: Completion of all ENG, RDG and MAT remediation requirements.
Description: Introduction to Chemistry, CHE 107, is a one-semester laboratory course in basic chemistry. Students are introduced to the fundamental concepts of physics and mathematics that are required to understand chemistry. The course then follows a semi-traditional introduction to chemistry: relative atomic/molecular weights, the mole concept, solution chemistry, stoichiometry, and gas laws. This course satisfies the prerequisite requirements for CHE 151. Note: Before the Fall of 2017 this course was entitled "General Chemistry" (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 108 - Consumer Chemistry
Prerequisites: Completion of all ENG, RDG and MAT remediation requirements.
Description: A non-mathematical course in chemistry for non-science students. The course explores the science of chemistry as it relates to modern society. Chemical principles are taught on a "need to know basis" as they are
required to explore scientific issues that impact modern society. It satisfies the laboratory requirement for liberal arts. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 109 - Contemporary Topics in Chemistry
Prerequisites: Completion of all ENG, RDG and MAT remediation requirements.
Description: This is a three-credit non-laboratory course in chemistry. Topics covered include forensic science, development of pharmaceuticals, actions of drugs in the body, toxicity of chemicals, and green chemistry. This course satisfies the liberal arts requirements for a non-laboratory science course in chemistry. (3 lecture hours)
SUNY GEN ED-n/a; NCC GEN ED-NSCI
Offered: Spring, Summer
Credit Hours: 3
Department: Chemistry

CHE 131 - College Chemistry I
Prerequisites: Completion of all ENG, RDG and MAT remediation requirements.
Description: College Chemistry I is the first course of a two-course sequence. The course covers fundamental principles of modern chemistry including problem-solving techniques. Topics include atomic and molecular structure, chemical nomenclature, stoichiometry, chemical bonding, properties of gases, liquids and solids, and solutions. One year of high school chemistry and a working knowledge of elementary mathematics including algebra is recommended. Note: This course is not the designated SUNY Seamless Transfer Path Course. Before the Fall of 2017 this course was entitled "General Chemistry I". (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 135 - Chemistry for Applied Sciences
Prerequisites: Completion of all ENG, RDG and MAT remediation requirements.
Description: A one semester laboratory course encompassing basic principles of inorganic, organic and biochemistry with emphasis on their application. Topics include metric/SI systems, energy, basic atomic theory, stoichiometry, gas laws, solutions, pH, buffers, nomenclature and structure of organic compounds, amino acids, proteins, carbohydrates, lipids and metabolism. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 151 - General Chemistry I
Prerequisites: High School Chemistry or CHE 107
Corequisites: Pre or co-requisite MAT 111 or equivalent.
Description: General Chemistry I is the designated first-semester chemistry course in the SUNY Seamless Transfer Path. This course is recommended for students majoring in science or mathematics, or planning for a career as a physician's assistant or medical doctor. This course is a definitive study of chemistry encompassing modern atomic and molecular theory and periodicity. An in-depth study of physical and chemical behavior of matter, including stoichiometry, gas laws, and solutions. The laboratory work reinforces concepts presented in lecture through the application of the scientific method. Emphasis in the laboratory is placed upon accuracy and precision in the development of qualitative and quantitative techniques. Note: Before the Fall 2017 this course was entitled "Inorganic Chemistry I" (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 152 - General Chemistry II
Prerequisites: CHE 151.
Description: General Chemistry II is the designated second-semester chemistry course in the SUNY Seamless Transfer Path. This course is recommended for students majoring in science or mathematics, or planning for a career as a physician's assistant or medical doctor. Topics covered in this course include study of oxidation-reduction reactions, chemical equilibrium, electrochemical cells, thermodynamics, and chemical kinetics. The laboratory emphasizes descriptive chemistry via qualitative analysis, and classical methods of gravimetric, volumetric, and basic instrumental analysis. Note: Before the Fall 2017 this course was entitled "Inorganic Chemistry II". (3 lecture, 5 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 200 - Introductory Organic Chemistry
Prerequisites: CHE 131 or CHE 151 or permission of Chairperson.
Description: CHE 200 offers a basic introduction to the world of organic chemistry. A functional group approach, emphasizing structure, nomenclature, preparation and reactivity is used. While the approach parallels CHE 201 to an extent, it is significantly less demanding and thus cannot be substituted for the higher level course. Nevertheless, many science and pre-professional students with weak backgrounds in chemistry have found CHE 200 helpful as a refresher course before taking CHE 201 - CHE 202. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 201 - Organic Chemistry I
Prerequisites: Minimum of "C" in CHE 152.
Description: This is the first course of the CHE 201 - CHE 202 sequence. This 1st semester course in organic chemistry covers the nomenclature, physical properties, stereochemistry, structure-reactivity relationships, and reaction mechanisms of alkanes, alkenes and alkynes. Laboratory activities include organic synthesis, qualitative analysis and instrumental techniques. (3 lecture, 6 laboratory hours) Laboratory fee applies. Molecular model set required.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
CHE 202 - Organic Chemistry II
Prerequisites: Minimum of "C" in CHE 201.
Description: This is the second course of the CHE 201 - CHE 202 sequence. This 2nd course in organic chemistry covers modern spectroscopic techniques and the characteristic reactions of the major classes of organic compounds. A mechanistic approach is emphasized. Laboratory activities include organic synthesis, qualitative analysis, and instrumental techniques. (3 lecture, 6 laboratory hours) Laboratory fee applies. SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: Spring, Summer
Credit Hours: 5
Department: Chemistry

CHE 221 - Clinical Chemistry
Prerequisites: CHE 200.
Description: A one-semester course designed to train medical technologists in the principles and practices of the science of clinical chemistry, specimen collection and processing, quality control, modern instrumentation in clinical chemistry, basic physiology, analytical procedures, and correlations of abnormal values with the disease states. Laboratory utilizes modern instrumentation in the determination of biochemical profiles such as liver, kidney, heart, electrolytes, lipids, thyroid function, pancreatic function and the monitoring of therapeutic drugs. (2 lecture, 6 laboratory hours). Laboratory fee applies. SUNY GEN ED-GLAB; NCC GEN ED-LSCI Offered: Spring
Credit Hours: 4
Department: Chemistry

CHE 260 - Biochemistry
Prerequisites: CHE 200 or CHE 201 or permission of Chairperson.
Description: For paramedic science students. This course presents classes of biologically interesting compounds and covers their structure, biosynthesis, and metabolism. Physiological buffers are also presented. The laboratory stresses analysis of such classes of compounds. (3 lecture, 3 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-LSCI Offered: Spring, Summer
Credit Hours: 4
Department: Chemistry

CHE 295 - Independent Study- Chemistry
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly CHE 699. Students who have completed CHE 699 will not receive credit for CHE 295.
Credit Hours: 3
Department: Chemistry

Chinese

CHI 101 - Beginning Chinese I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. This course is not intended for students of Chinese speaking background. Laboratory fee applies. Laboratory component required. SUNY GEN ED-GFOL; NCC GEN ED-GLNW, HUM Offered: Fall, Spring
Credit Hours: 3
Department: Foreign Languages

CHI 102 - Beginning Chinese II
Prerequisites: CHI 101 or equivalent. Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required. SUNY GEN ED-GFOL; NCC GEN ED-GLNW, HUM Offered: Spring
Credit Hours: 3
Department: Foreign Languages

Climatology

CLI

CLI 101 - Climatology
Description: Meteorological elements such as temperature, precipitation, pressure, and wind will be studied to provide an understanding of the different climates around the world. Students will learn how climate can influence agriculture, clothing, housing, and transportation in different parts of the world. The interdisciplinary nature of this course is evident in the study of how scientists have used biology, meteorology, geology, astronomy, physics, chemistry, oceanography and computer modeling to determine the climates of the past and predict the climates of the future. The study of climate change will include astronomical theories, the ocean conveyor belt, ozone depletion, global warming and El Nino and La Nina. Formerly SCI 108. Students who have completed SCI 108 will not receive credit for CLI 101. (3 lecture, 3 laboratory hours) Lab fee applies. SUNY GEN ED-GLAB; NCC GEN ED-GLNW, LSCI. Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tech

CMA 130 - Administrative Medical Office Procedures
Description: Concurrent Requisite: HIT 151 Medical Terminology
This course introduces students to medical office administrative procedures including introduction and development of basic keyboarding and beginning word processing skills. Emphasis will be placed on the creation of medical correspondence including letters, memos, reports, and policy/procedure manuals. Medical practice financial procedures including bookkeeping, processing payroll, banking, and creation of spreadsheets will be covered. SUNY GEN ED; NCC GEN ED Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tech

CMA 132 - Clinical Documentation Procedures
Description: Prerequisite: ABT 254, AHS 131, HIT 151, HIT 270 (with a grade of C or better in each course) Concurrent Requisite: AHS 132, CMA 134
This course covers entry-level medical office clinical procedures including patient intake procedures and documentation of care. The medical assistant's role in complying with federal regulations and public health rules is reviewed. The student is introduced to theory and practical application of medical ethics. Course includes instruction in use of outpatient electronic health record software. SUNY GEN ED; NCC GEN ED Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tech

CMA 236 - Administrative Practicum
COURSE DESCRIPTIONS

Description: Prerequisite: AHS 131, CMA 130, HIT 151, HIT 156, HIT 170, HIT 270 (with a grade of C or better in each course) Concurrent Requisite: CMA 132, HIT 158 This course is a supervised practical experience for development of fundamental skills in administrative medical assistant procedures through an internship placement in a physician's office, medical clinic, or other healthcare facility. Students will prepare a portfolio and practice interviewing skills. Preparation for the CMA (AAMA) certification examination is completed in class with review of the exam prep book.

SUNY GEN ED; NCC GEN ED
Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tec

CMA 238 - Clinical Practicum
Description: Prerequisite: AHS 100, AHS 103, AHS 132, BIO 131, CMA 132, CMA 134, HIT 151 (with a grade of C or better in each course) Concurrent Requisite: NTR 198 This course is a supervised practical experience for development of fundamental skills in clinical medical assistant procedures through an internship placement in a physician's office, medical clinic, or other healthcare facility. Preparation for the CMA (AAMA) certification examination is completed in class with review of the exam prep book.

SUNY GEN ED; NCC GEN ED
Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tec

Computer Processing

CMP

CMP 100 - Computer Literacy
Prerequisites: All MAT, ENG001 and RDG001 developmental courses requirements must be co
Description: Prerequisites: All MAT, ENG001 and RDG001 developmental courses requirements must be completed.
This course provides the general liberal arts student with a non-technical overview of the role that computing plays in today's world with a focus on new and emerging technologies. The lecture component discusses the role of computing in various disciplines and its impact on individuals, institutions and society. The hands-on approach allows the student to become familiar and comfortable with current developments in hardware and software technologies. Examples include Arduino, an open source electronics platform, and App Inventor, a block language used to develop mobile applications. Information Technology and Computer Science majors will not receive credit for this course.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CMP 101 - Introduction to Computers
Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.
Description: An introduction to computers applying critical thinking and problem solving strategies in science, mathematics and information/data management. The course will address issues of information validity and value judgments. Students will develop both qualitative and quantitative solutions to college-level applications. Topics include computer hardware and software, security, ethics, connectivity, basic networking (Internet), electronic spreadsheets, report and graph generation, and an introduction to programming concepts. Computer Information Systems and Computer Science majors will not receive elective credit for this course.
Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CMP 102 - IT Essentials
Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.
Description: This course is designed to provide students with fundamental concepts pertinent to the IT industry related to personal computers, computer hardware, and operating systems software. Students will learn how various hardware and software components work and best practices in maintenance, safety and security involved in the processing of data. Through lab activities, major emphasis is placed on learning how to assemble and configure computers, install operating systems and popular software packages, as well as troubleshooting hardware and software issues. Upon the completion of this course students will have covered topics found on the CompTIA A+ exam. (4.5 contact hours and 4 credits). Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CMP 105 - Electronic Spreadsheets
Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.
Description: This course introduces electronic spreadsheet application software. Topics include spreadsheet operations, creation of charts and graphs, data query, multiple spreadsheets, links and macro programming. It is designed for computer processing, business and general liberal arts students interested in obtaining comprehensive hands-on training in the use of electronic spreadsheets (4.5 lecture hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CMP 106 - Database Processing
Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.
Description: This course is an introduction to database processing for business and information systems. Emphasis is placed on the planning, administration, control, and design of database management systems. A database programming language (command files, report generator, and screen files) is also presented. It is suggested that students have previous microcomputing experience and/or programming experience (or CMP 101 and CMP 103) before enrolling in this course (4.5 lecture hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CMP 115 - Computers in Business
Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.
Description: This course introduces the role of computers and data processing in the business environment. Topics include: essential business computer concepts, computer hardware/software, modern business computer systems, the Internet, data communications, networking, and systems...
COURSE DESCRIPTIONS

analysis and design. An introduction to DOS and Windows is covered. Electronic spreadsheets are used to emphasize business analysis and decision-making using computers. This course is primarily for business majors. Computer Information Systems or Computer Science majors will not receive credit for this course. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Math/Computer Science/Info Tec

CMP 117 - Business Computing: Concepts and Applications

Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.

Description: This course is designed to provide the business student with a broad-based background in the use of computer systems in business and industry. An overview of computer hardware and software concepts with their impact on business systems is an integral part of the course. Students are introduced to a variety of information systems and the development life cycle utilized in the private sector. The importance of networking structures and the analysis of data flow within business and management information systems (MIS) are covered. Use of the Internet for global electronic commerce is discussed. The hands-on component of the course provides students with substantial use of spreadsheet, database and presentation software to analyze data and solve real-life business problems. Students will be introduced to databases that exhibit the hierarchy of data and the relational database model. (Students will not receive credit for both CMP 115 and CMP 117; Computer Science or Information Technology majors will not receive credit for this course.) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 4

Department: Math/Computer Science/Info Tec

CMP 160 - Data Preparation with SAS

Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.

Description: SAS (Statistical Analysis System) is a complete programming language and is widely used in the Data Science field. This course is an introduction to writing SAS programs. The student will be introduced to accessing data, reading raw data files, formatting data values, using SAS functions, combining datasets, controlling input and output, using do loops and arrays, creating summary reports, creating detailed reports, and creating temporary and permanent datasets of all formats (text, csv, Excel, etc.) SAS software will be used extensively throughout the course.

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Math/Computer Science/Info Tec

CMP 205 - Survey of Operating Systems

Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.

Description: Students are introduced to the basic concepts of operating systems and will study the similarities and differences between at least three current and popular architectures and user interfaces. Topics include shell languages, file structures, background processes, system software, including editors, and system utilities. These topics will be covered for each of the different systems. Theoretical concepts covered include multi-tasking, inter-process communication and system administration. Use of both written and on-line system documentation is required. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Math/Computer Science/Info Tec

CMP 294 - Cooperative Education Internship

Prerequisites: Permission of Department, approval by the Agency offering the internship, a minimum of 9 CMP credits, and a minimum GPA of 2.75.

Description: This is a course integrating classroom study with career related professional training in the area of Information Technology. The student will be placed in a corporation, small business or other setting related to the field of Information Technology and will gain work experience that enriches the theoretical concepts developed in the classroom.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 4

Department: Math/Computer Science/Info Tec

CMP 295 - Independent Study-Computer Processing

Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly CMP 699. Students who have completed CMP 699 will not receive credit for CMP 295.

Credit Hours: 3

Department: Math/Computer Science/Info Tec

Communications

COM

COM 030 - Public Speaking for Non-Native Speakers (ESL III)

Prerequisites: Placement test.

Description: COM ESL III is a preparatory public speaking course for advanced ESL students. It teaches organizational, research, and delivery skills. Students will learn how to carry out research, create a bibliography, write an outline, and deliver an informative speech. Improved fluency and clear articulation in English are also goals of this course. This course is offered only in conjunction with the credit bearing (3 credits) course COM 103. The courses will be given in an intensive (four days a week) format, and both can be completed in one semester.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 0

Department: Communications

COM 101 - Interpersonal Communications

Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: This course is a study of the historical and contemporary principles and concepts of human communication. An examination of the interpersonal communication process will help the student gain an awareness of the elements which both aid and hinder communication. Skills which will increase communication effectiveness will be studied, including verbal and nonverbal behavior, listening, assertiveness, and conflict resolution. Course will incorporate an analysis of theoretical applications.

SUNY GEN ED-GBCM; NCC GEN ED-COM, HUM
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Communications

COM 103 - Public Speaking
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: Principles and practices of public speaking. Emphasis in public speaking on preparation and presentation of speeches, selection of materials, organization and development, delivery, audience analysis, critical listening, and constructive evaluation. Three researched, informative speeches are required.

SUNY GEN ED-GBCM, NCC GEN ED-COM, HUM
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Communications

COM 104 - Film Appreciation
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: The study of film as an art form and as popular culture. Through readings, discussions, and viewings of historical and contemporary films of various genres, the aesthetics of film's form and narrative components are examined. Films are analyzed for meaning and merit using various models of film theory and criticism.

SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Communications

COM 107 - Film Production I
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: A study of the creative & artistic concerns & fundamental processes involved in filmmaking. Emphasis on the preproduction planning, shooting, editing & screening of films. Material fee applies.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Communications

COM 109 - Television Journalism
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: A comprehensive study of electronic journalism as prepared and presented through the medium of television. Students engage in the creation of television news production. Students develop a critical awareness of television news.

SUNY GEN ED-GBCM; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Communications

COM 110 - Understanding Mass Media
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: The study of mass media, radio, television, film, print, advertising of our time. How do the media reshape and restructure us as individuals, in the social group and as a "global village"? How do mass media work on the inside? How do mass media work outside on the lives of the consumers?

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Communications

COM 112 - History of Film
Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: A history motion pictures as entertainment, art, and education. This course examines artistic influences and techniques that have affected the development of the medium, and looks at film's role from a social and historical perspective as it reflects or challenges an era's prevailing ideological, political, and social attitudes.

SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Communications

COM 113 - Documentary Media
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: Historical development, content and social and artistic impact of the documentary are analyzed. The emphasis of the course is an examination of the distinctions and similarities in form and content of the documentary as it has developed through radio, television and film.

SUNY GEN ED-GBCM; NCC GEN ED-HUM
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Communications

COM 119 - Oral Interpretation
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: The study of mass media, radio, television, film, print, advertising of our time. How do the media reshape and restructure us as individuals, in the social group and as a "global village"? How do mass media work on the inside? How do mass media work outside on the lives of the consumers?

SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Communications

COM 121 - Small Group Communication
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: Theory and practice in assuming membership and leadership roles in decision-making groups, with emphasis upon the individual's ability to communicate and thus interact more effectively. Group process is investigated as it relates to each individual's ability to communicate.

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Communications

COM 123 - Argumentation and Debate
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: Provides students an opportunity to locate, organize and use rational arguments both for and against controversial issues of national importance. Classroom debates promote skill in cross-examination, detecting faulty reasoning and refuting opposing views. For all students, particularly those interested in business and the professions.
COURSE DESCRIPTIONS

SUNY GEN ED-GBCM; NCC GEN ED-HUM, COM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Communications

COM 124 - Communication for Business and the Professions
Prerequisites: COM 101. Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: A course designed to acquaint students with the fundamental principles and concepts of communication within the organizational environment. It assists in developing interpersonal skills needed for effective performance in business and the professions. The course examines the communication implications of organizational structure on the processing, networking, and transaction of messages. The communication climates of organizations are analyzed.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 3
Department: Communications

COM 125 - Effective Listening
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: The study of the theories of listening and the application of principles of effective listening in academic, professional, and personal situations. Students will analyze and test their own listening patterns and engage in exercises to improve listening skills.
SUNY GEN ED-GBCM; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Communications

COM 130 - Communication in Black America
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: (Dual listed with AFR 197) A study of how oral communication functions in various relationships. Emphasis on discussion, group exercises, role playing. The role of oral communication in the Black experience.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Communications

COM 170 - Radio Production
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: An introduction to the medium of radio with an emphasis on basic radio production. Students gain competence in using radio equipment and producing programs in various formats. The course will examine the role of program elements to support business and public interest aspects of the medium. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Communications

COM 171 - Television Studio Production
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: Designed to give the student a creative grasp of the art and craft of television production in a studio setting. Students develop skills in the aesthetic as well as technical aspects of television in the practical setting. Emphasis is on the production process by developing group and individual projects. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-HUM, FAPA
Offered: Fall, Spring
Credit Hours: 3
Department: Communications

COM 172 - Video Field Production
Prerequisites: Students must have satisfied all remediation requirements prior to starting the course.
Description: Introduces the foundational concepts, techniques, and equipment of single camera video production in a field setting. Students write, produce, and edit a variety of projects, using digital video cameras and nonlinear post-production software.
SUNY GEN ED-n/a; NCC GEN ED-HUM, FAPA
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Communications

COM 201 - Voice and Diction
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: A study of the structure and function of the speech and voice mechanism. The course is designed to provide training for the improvement of articulation and voice quality. The International Phonetic Alphabet and its use in recording the sounds of American English are studied. Emphasis is given to the practice and application of principles basic to good speech production. Voice recordings and individual conferences with the instructor are required of all students.
SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Communications

COM 202 - Persuasive Speaking
Prerequisites: Students who have taken COM 102 will not receive credit for COM 202. Examines the role of persuasion in contemporary society. Focus on both the technical and ethical aspects of persuading. Study of attention, various appeals, and structure in adapting to audiences. Assigned speeches.
SUNY GEN ED-GBCM; NCC GEN ED-HUM, COM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Communications

COM 203 - Phonetics
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: This course will provide students with a strong foundation in the study of human speech by focusing on the physiological aspects as well as the physical components of speech sounds. Students will study the anatomy of the vocal tract, articulation processes, dialects and accents, the articulatory and acoustic properties of speech sounds, the International Phonetic Alphabet, and the direct application of phonetic principles. This course is intended to fit within the recommended sequence of course work to be completed by undergraduates who wish to enter the fields of Speech Pathology/Audiology, Linguistics, and TESL/TEFL.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Communications

COM 209 - Introduction to Speech and Hearing Therapy
Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.
Description: A study of speech & hearing disorders, their diagnosis & treatment. Review of the physical, emotional & intellectual interrelationships of language & speech development. Provide a comprehensive
overview of the field of speech & hearing therapy.

SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Communications

COM 220 - Communication and Language

Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: Communication and Language is an advanced course which teaches the meaning of oral language codes and explains how and why language takes the form we observe. Issues that underlie varieties of speech such as sexism, racism, and social status are examined, and the specific mechanisms of these codes are revealed. Special emphasis is given to the oral patterns used by men and women, to the pragmatic aspects critical to communicative function, and to the study of dialectical variety and bilingualism.

SUNY GEN ED-GBCM; NCC GEN ED-PLDI, HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Communications

COM 222 - Nonverbal Communication

Prerequisites: Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

Description: Theories and methods of nonverbal communication. Emphasis on the analysis and significance of nonverbal cues and their effects on behavior in daily living. Participation in exercises demonstrating various aspects of nonverbal communication including body language, eye movement, smell and space and time relationships. Exploration of nonverbal behavior of other cultures and subcultures. Mini-projects in observing and recording nonverbal behavior in many kinds of situations including those in which nonverbal norms are violated.

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Communications

COM 224 - Intercultural Communications

Prerequisites: Students must have satisfied English remediation requirements and RDG 001 prior to starting the course.

Description: This course will examine the factors that help people understand, adjust to, and interact with others of diverse cultures. The focus will be on the strategic role of communication within the context of sociocultural factors that affect communication style and effectiveness. Students will become familiar with major theory and research in intercultural communication and have an opportunity to develop and practice those competencies that will increase their effectiveness in intercultural interactions.

SUNY GEN ED-n/a; NCC GEN ED-PLDI, HUM
Offered: Fall

Credit Hours: 3

Department: Communications

COM 290 - Media Practicum

Prerequisites: Departmental permission. Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: Supervised practical experience at media facilities providing the students with situations in which they can apply concepts learned in previous media courses. Field experience and future career opportunities will be discussed in a collateral on-campus class. The focus of this course is on media technology. (Prior coursework in media or permission of the Departmental Chair required.) Three credits (1 1/2 hours classroom lecture, discussion; 12 hours field experience.

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Communications

COM 295 - Independent Study-Communications

Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly CRJ 699. Students who have completed CRJ 699 will not receive credit for CRJ 295.

Credit Hours: 3

Department: Communications

Criminal Justice

CRJ

CRJ 101 - Police Organization and Administration

Prerequisites: Completion of RDG 001 and ENG 001.

Description: Administrative principles and practices which apply to law enforcement and public safety agencies, including the formulation of policy and procedures, rules and regulations, deployment, coordination of activity, and the enactment of procedural and tactical planning.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Criminal Justice

CRJ 105 - Foundations of the Justice System

Prerequisites: Completion of RDG 001 and ENG 001.

Description: Students will be provided with basic knowledge of the philosophy, structure and processes utilized in the delivery of justice. This survey of justice will provide students with the necessary knowledge so they can understand and impact the system to enable it to best serve individual and/or societal needs.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Criminal Justice

CRJ 106 - Understanding Criminal Behavior

Prerequisites: Completion of RDG 001 and ENG 001.

Description: Focuses on a branch of criminal justice dealing with criminal behavior in relation to legal principles and court cases. Practical aspects of assessment, management and treatment functions of the practitioner will be examined from both a clinical and a behavioral perspective. Students will explore theories, techniques and research methods associated with judicial settings and correctional institutions.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Criminal Justice

CRJ 110 - Introduction to Correction

Prerequisites: Completion of RDG 001 and ENG 001.

Description: A survey of the correctional field: origins, development, current status, and future prospects. The course is intended for students who would like to explore the field of corrections. The focus is on the current state of corrections, with enough background material to illuminate relevant contemporary events.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Criminal Justice

CRJ 111 - Probation and Parole I

Prerequisites: Completion of RDG 001 and ENG 001.
CRJ 112 - Probation and Parole II
Prerequisites: Completion of RDG 001 and ENG 001. CRJ 110, CRJ 111, or CRJ 215 or permission of instructor or chairperson.
Description: This course reviews relevant issues in probation and parole systems which require in-depth analysis. Major problems are thoroughly examined and possible solutions are suggested. These areas cover a wide range of problems which have been in existence for long periods of time, and those which have developed as a result of the emergence of new technology or change in philosophy in the correctional discipline.
Credit Hours: 3
Department: Criminal Justice

CRJ 113 - Community Based Corrections
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This course assists students in understanding the principles and philosophy of alternatives to incarceration. The course focuses on the various correctional programs available to offenders which are designed to assist the individual to make a more realistic adjustment to normal community living following the commission of a criminal offense or delinquent act.
Credit Hours: 3
Department: Criminal Justice

CRJ 201 - Criminal Investigation
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This course examines the theories and practices of criminal investigation through each of the germane aspects, commencing with the discovery of a potential crime, through crime scene and evidence methodology, through the secondary investigative steps of examination, interview, interrogation and case preparation. Emphasis is placed on the utilization of evidence and testimony to prove both the elements of specific crimes and the identity of the specific criminal(s).
Credit Hours: 3
Department: Criminal Justice

CRJ 203 - Police and the Community
Prerequisites: Completion of RDG 001 and ENG 001.
Description: The importance of good police community relations is stressed, as well as the factors that go into the effort to achieve them. The course gives the student an in-depth review of the past and the present state of police community relations, as well as an assessment of what will be required in the future. The impact of politics, unionism, minorities and media relations on the police and the public they serve is analyzed.
Credit Hours: 3
Department: Criminal Justice

CRJ 206 - Dispute Resolution (Mediation)
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This course focuses on the differences between mediation, arbitration and fact finding, and how each of these processes is used on the Federal, state, and local level. A comparative study of dispute resolution centers throughout the United States, and how these centers are used as an alternative to the Criminal Justice System. The course will provide outlines for student participation in role playing dispute situations, and how the disputes are resolved, including the final agreement between the parties.
Credit Hours: 3
Department: Criminal Justice

CRJ 207 - Criminal Justice Internship
Prerequisites: Completion of RDG 001 and ENG 001. Permission of Department required.
Description: This course offers a classroom seminar and assignment in various agencies within the Criminal Justice System, providing students with the opportunity to include an internship in their studies and to integrate classroom learning with practice before considering entering the criminal justice professions. Field experience will occur in Police, Sheriff, Probation, Correction, Parole, County Attorney, District Attorney, and related agencies at the local level. Students will become acquainted with the function, structure, staff and clientele of these Criminal Justice agencies.
Credit Hours: 3
Department: Criminal Justice

CRJ 212 - Research in Crime and Security
Prerequisites: Completion of RDG 001 and ENG 001. At least nine credits of Criminal Justice and/or Private Security Administration.
Description: (Dual listed with PSA 241) This seminar type course offers the student an opportunity to examine specific issues, conflicts or controversies in one or more of the following discipline areas: law enforcement, loss prevention, the courts, and corrections. An interdisciplinary approach is stressed for a broader understanding. Each student is required to complete a research project under the direction of the instructor in the student's chosen area of examination.
Credit Hours: 3
Department: Criminal Justice

CRJ 215 - Introduction to Juvenile Delinquency and Justice
Prerequisites: Completion of RDG 001 and ENG 001.
Description: The organization, functions, and jurisdiction of juvenile agencies; the processing and detention of juveniles. A comprehensive study of the state law relating to youthful offenders.
Credit Hours: 3
Department: Criminal Justice

CRJ 216 - Investigation Interviewing and Counseling
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This course examines the various functions of investigations conducted on offenders, preparation of reports for various agencies, interviewing techniques most applicable to the correctional client, and the various issues involved in the counseling of these specific types of clients.
Credit Hours: 3
COURSE DESCRIPTIONS

Department: Criminal Justice

CRJ 217 - Contemporary Issues in Corrections
Prerequisites: Completion of RDG 001 and ENG 001. CRJ 105 or CRJ 110 or permission of instructor or Department chairperson.
Description: An examination of the most relevant issues in corrections at this time. Correctional treatment, sentencing practices and impact on correctional policy, violence in prison, community based treatment of the offender, minority offenders and other issues are analyzed in depth.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3

Department: Criminal Justice

CRJ 218 - International Criminal Justice Systems
Prerequisites: Completion of RDG 001 and ENG 001. Permission of instructor.
Description: This study tour will examine the criminal justice systems of foreign nations. Students will visit courts, penal institutions, assessment and treatment centers for both youthful and adult offenders. In addition, discussions with government officials and criminal justice practitioners are planned. Participants will have an opportunity to contrast and compare the criminal justice systems of these countries with that of the United States. Travel costs are extra.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Winterim
Credit Hours: 3

Department: Criminal Justice

CRJ 219 - Sentencing Alternatives and the Juvenile Delinquent
Prerequisites: Completion of RDG 001 and ENG 001. CRJ 215.
Description: A seminar course that will focus on presenting functional sentencing alternatives for juvenile delinquents and persons in need of supervision (PINS). The course objectives will involve instruction supported by an active learning environment, including campus-based fieldwork. Students will participate in conflict resolution and mediation, teen court scenarios, diversion programs and a wide variety of other community based sentencing alternatives. Students, under faculty supervision, will have an opportunity to interface with agencies that provide alternative sentencing programs in Nassau County.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3

Department: Criminal Justice

CRJ 220 - Women in the Criminal Justice System
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This seminar will explore the various theoretical explanations underlying contemporary female criminality. The issues of female victimology, women as offenders & female practitioners in the criminal justice system will be examined. Problems within the various rehabilitative and punitive sentencing alternatives will be identified and analyzed.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

Department: Criminal Justice

CRJ 221 - Police Supervision and Public Relations
Prerequisites: Completion of RDG 001 and ENG 001.
Description: A seminar course on the administration of justice & community relationships. It utilizes the interdisciplinary activities & emphasizes the evaluation of police facilities at the community level.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

Department: Criminal Justice

CRJ 222 - Law of Evidence
Prerequisites: Completion of RDG 001 and ENG 001.
Description: An examination of the substantive law of evidence examination of the origin and function of the law of New York State; review and analysis of the elements of major offenses at common law and under modern penal codes, and the available defenses; review and discussion of leading judicial interpretations of penal codes.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: Criminal Justice

CRJ 223 - Constitutional Law
Prerequisites: Completion of RDG 001 and ENG 001.
Description: A brief analysis of the law of evidence for undergraduates which will be beneficial to police officers and students intending to enter the field of criminal justice.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

Department: Criminal Justice

CRJ 224 - Introduction to White Collar Crime
Prerequisites: Satisfactory completion of ENG 001 and RDG 001 / RDG 002 if required.
Description: This class focuses on the different types of white collar crime such as identity theft, antitrust violations, bank fraud, computer/Internet fraud, economic espionage, counterfeiting, embezzlement, money laundering, bribery, securities fraud among others. Secondary aspects include theories/explanations of white collar crime, enforcement, adjudication and criminal statutes.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Criminal Justice

CRJ 225 - Criminal Law
Prerequisites: Completion of RDG 001 and ENG 001.
Description: An examination of the substantive criminal law of New York State; review and analysis of the elements of major offenses at common law and under modern penal codes, and the available defenses; review and discussion of leading judicial interpretations of penal codes.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: Criminal Justice

CRJ 226 - Criminal Procedure
Prerequisites: Completion of RDG 001 and ENG 001.
Description: Devoted to the study of the criminal law administration as mandated by the Supreme Court of the United States through legal controls over police investigative procedures. Specifically, the 4th, 5th, 6th, and 14th Amendments of the U.S. Constitution and the New York criminal procedure law are discussed and analyzed through the case law. Special emphasis is placed on procedures involving arrests, searches and seizures, warrants and interrogation.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Criminal Justice

CRJ 295 - Independent Study-Criminal Justice
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly CRJ 699. Students who have completed CRJ 699 will not receive credit for CRJ 295.
Credit Hours: 3

Department: Criminal Justice

Nassau Community College: https://collegecatalog.ncc.edu/current

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Computer Repair Technology

CRT

CRT 201 - Personal Computer Equipment Servicing I

**Description:** This course is the first of a two-course sequence designed to provide the skills required to install, service and maintain personal computers and their peripheral devices. Topics include microcomputer fundamentals; PC hardware; the addition or replacement of field replaceable modules; installation and configuration procedure for various devices; common problems associated with each module and troubleshooting techniques. Microprocessor support systems, memory systems, on-board I/O, expansion slots, system board upgrading and troubleshooting conclude the course. Department computer facility will be used for all laboratory work. Laboratory fee applies.

**Department:** Engineering/Physics/Tech

**SUNY GEN ED:** n/a; **NCC GEN ED:** n/a

**Offered:** Fall

**Credit Hours:** 4

CRT 202 - Personal Computer Equipment Servicing II

**Prerequisites:** CRT 201

**Description:** This course is the second of a two-course sequence designed to provide the skills required to install, service, and maintain personal computers and their peripheral devices. The course begins with coverage of input/output devices, including coverage of serial and parallel ports, troubleshooting port problems. The construction, installation and troubleshooting of input devices such as keyboards, mice, trackballs, joysticks, light pens, touch-screens and scanners are discussed. Magnetic storage is then covered including disk drive operation, floppy disk drives, hard disk drives, RAID systems and tape drives. Video displays, including CRT basics, color monitor video standards, video controllers, liquid crystal displays and gas plasma displays are covered. The characteristics, mechanics, installation and troubleshooting of dot-matrix, ink-jet and laser printers are studied. Data communications is covered, including modems, local area networks and wide area networks. Department computer facility will be used for all laboratory work. Laboratory fee applies.

**Department:** Engineering/Physics/Tech

**SUNY GEN ED:** n/a; **NCC GEN ED:** n/a

**Offered:** Spring

**Credit Hours:** 4

Computer Science

CSC

CSC 104 - Programming Logic and Problem Solving

**Prerequisites:** Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.

**Description:** The course is an introduction to programming logic and problem solving including programming concepts and terminology. The focus of the course is on critical thinking skills necessary to write computer programs and provides students with an introduction to programming without focusing on the details of programming syntax. This course is intended for students with little or no object-oriented programming experience. Students who have completed CMP 104 will not get credit for CSC 104. (3 lecture hours)

**Department:** Engineering/Physics/Tech

**SUNY GEN ED:** n/a; **NCC GEN ED:** CMPS, FBAE, MBAE

**Offered:** Fall, Winterim, Spring, Summer

**Credit Hours:** 3

CSC 120 - Computer Science I

**Prerequisites:** At least a C in CSC 104 or at least a C in MAT 111 or permission of the Department.

**Description:** This course is an introduction to computer programming and algorithmic problem solving using an object-oriented, high level programming language. Emphasis is placed on problem solving strategies that utilize multiple classes and methods. This course will focus on the following concepts: algorithm implementation, modular development, documentation, abstraction and coding along with problem solving strategies. Includes supervised hands-on component. Students who have completed CMP 210 will not get credit for CSC 120. (4 lecture, 2 laboratory hours) Laboratory fee applies.

**Department:** Math/Computer Science/Info Tec

**SUNY GEN ED:** n/a; **NCC GEN ED:** CMPS, FBAE, MBAE

**Offered:** Fall, Winterim, Spring, Summer

**Credit Hours:** 4

CSC 217 - C Programming Language

**Prerequisites:** At least a C in CSC 130 or CMP 219 or ITE 204, or permission of the Department.

**Description:** The C programming language is widely used in both the computer industry and as a tool for studying advanced topics in the area of Computer Science. Topics include language syntax, scalar and compound data types, pointers, functions, operators, modular coding practices and files. Both the ANSI version and the traditional C are discussed with emphasis on the former. Typically fall day and spring evening. Students who have completed CMP 217 will not get credit for CSC 217. Laboratory fee applies.

**Department:** Math/Computer Science/Info Tec

**SUNY GEN ED:** n/a; **NCC GEN ED:** n/a

**Offered:** Fall, Spring

**Credit Hours:** 3

CSC 219 - C Programming Language

**Prerequisites:** At least a C in CSC 130 or CMP 219 or ITE 204, or permission of the Department.

**Description:** The C programming language is widely used in both the computer industry and as a tool for studying advanced topics in the area of Computer Science. Topics include language syntax, scalar and compound data types, pointers, functions, operators, modular coding practices and files. Both the ANSI version and the traditional C are discussed with emphasis on the former. Typically fall day and spring evening. Students who have completed CMP 217 will not get credit for CSC 217. Laboratory fee applies.

**Department:** Math/Computer Science/Info Tec

**SUNY GEN ED:** n/a; **NCC GEN ED:** CMPS, FBAE, MBAE

**Offered:** Fall, Winterim, Spring, Summer

**Credit Hours:** 4

CSC 230 - Data Structures

**Prerequisites:** At least a C in CSC 130.

**Description:** This course introduces the programming literate student to the advanced data types and structures of priority queues, hash tables, and search trees. The concepts covered in this course include recursion, algorithm efficiency, best and worst time analysis, and advanced tree structures and graphs. Typically fall day and spring evening. Students who have completed CMP 251 will not get credit for CSC 230. Laboratory fee applies.

**Department:** Math/Computer Science/Info Tec

**SUNY GEN ED:** n/a; **NCC GEN ED:** n/a

**Offered:** Fall, Spring

**Credit Hours:** 3

CSC 130 - Computer Science II

**Prerequisites:** At least a C in CSC 120.

**Description:** This course expands on the design of object-oriented programs introduced in Computer Science I. Students will be introduced to abstract data types including stacks, queues, and lists. Emphasis is placed on the design and implementation of these abstract data types as well as applications that utilize them. Object-oriented programming concepts such as composition, inheritance, polymorphism, and exception handling are utilized throughout this course. An introduction to binary-trees and recursion is provided. Includes supervised hands-on laboratory component. Students who have taken CMP 211 will not get credit for CSC 130. (4 lecture, 2 laboratory hours) Laboratory fee applies.

**Department:** Math/Computer Science/Info Tec

**SUNY GEN ED:** n/a; **NCC GEN ED:** CMPS, FBAE, MBAE

**Offered:** Fall, Spring

**Credit Hours:** 3
CSC 240 - Mobile Application Development
Prerequisites: At least a C in CSC 130 or permission of the Department
Description: This course introduces students to the emerging field of mobile device software development. Capitalizing upon their prior experience in general-purpose object-oriented program development, students will learn how to write and test programs for handheld devices. Students will learn about the hardware limitations of handheld devices and how to optimize performance for them. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CSC 250 - Computer Organization and Assembly Language Programming
Prerequisites: At least a C in CSC 130.
Description: Implementation and discussion of registers, addressing modes, relocatability, base arithmetic, data representation, assembly and linkage using a particular instruction set and architecture. Topics include arithmetic calculation, memory organization, flow of control, address modification and access method, bit and byte manipulations, I/O, user and system interrupts, routines and macros. Typically fall evening and spring day. Students who have completed CMP 207 will not get credit for CSC 250. (4.5 lecture hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CSC 260 - Computer Architecture and Organization
Prerequisites: At least a C in CSC 130.
Description: This course covers the fundamentals of computer architecture and organization. Topics include: classical von Neumann machines, major functional units, primary memory, representation of numerical (both integer and floating point) and non-numerical data, CPU architecture, instruction encoding, the fetch-decode-execute cycle, instruction formats, addressing modes, symbolic assemblers, assembly language programming, handling of subprogram calls at the assembly level, mapping between high level language patterns and assembly/machine language, interrupts and I/O operations, virtual memory management, and data access from magnetic disk.

CUL 101 - Culinary Sanitation
Description: This Culinary Sanitation course is an introduction to Federal, State, and Local regulations and the origins of foodborne illness and the implementation of HACCP (Hazard Analysis and Critical Control Points). The importance of food safety, good personal hygiene, time and temperature control, preventing cross-contamination, cleaning and sanitizing, safe food preparation, receiving and storing food, methods of thawing, cooking, cooling and reheating food, HACCP and food safety regulations are intensively covered. The National Restaurant Association ServSafe exam will be administered in this course to fulfill course requirements.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business

CUL 110 - Introduction to Culinary Arts
Description: Pre or Concurrent Requisites: CUL 101
This course is an introduction to food preparation emphasizing basic culinary skills, practices, and the complete sanitation program in food establishments. Chef Instructor demonstrates proper culinary methods and preparations. Students then perform learned skills. Students are required to produce foods and clean and sanitize the kitchen laboratory. Lifting required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business

CUL 120 - Classical French Cuisine
Description: Pre or Concurrent Requisites: CUL 101
The French Classical course utilizes lectures, demonstrations and production to expose students to the preparation of traditional French Cuisine. French menu terminology, tableside cooking and compound sauces are taught. Emphasis is placed on sautéing baking, roasting, braising, and poaching. Time management, station organization, palate development, and in depth knowledge of plate design and styling will be developed. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 4
Department: Math/Computer Science/Info Tec

CUL 130 - American Regional Cuisine
Description: Pre or Concurrent Requisites: CUL 101
The American Regional Cuisine course utilizes lectures, demonstration and production to focus on cuisines from across the United States, specifically, California, Hawaii, New England, Mid-Atlantic, South, Floribean, Texas, Southwest and the Rocky Mountains. The proper use of knives, tools, small wares and kitchen equipment will be expounded upon. Grilling, broiling, roasting and deep frying will be thoroughly covered. Extensive focus will be placed on food cost control, ingredients and plate presentations. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business

CUL 140 - Baking I
Description: Pre or Concurrent Requisites: CUL 101
The Baking I course utilizes lectures, demonstrations and cooking for an integrated approach to mastering the fundamentals of baking. The student is introduced to quick breads and yeast-raised laminated doughs (breads and rolls), puff pastry, pâté à choux, mousses, custards and creams, with a daily emphasis on plated desserts. The formulation and calculating baker’s mathematics, the uses of baking equipment, scaling, shaping techniques, inventory control and sanitation are also covered. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business

CUL 210 - Culinary Nutrition
Description: Pre or Concurrent Requisites: CUL 101
The Culinary Nutrition course utilizes lectures, demonstration and production to focus on the principles of nutrition, basic nutrients and related health concepts. Eating behaviors, recommended dietary intakes, and tools for healthy eating patterns are emphasized. Students are introduced to the cooking techniques of steaming, poaching, reduced salt and fat free meals. Lecture, demonstration and production revolve around nutritional analysis of menus and recipes, and the sensory
COURSE DESCRIPTIONS

properties of food. The focus is on production of flavorful and nutritionally balanced entrees, vegetables and grains. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 220 - International Cuisine
Prerequisites: CUL 110, CUL 120
Description: This 15 week International Cuisine course utilizes lectures, demonstrations and production to prepare, taste, serve and evaluate traditional and regional dishes of North America, South America, The Caribbean, Asia, Europe and the Mediterranean. Emphasis will be placed on ingredients, flavor profiles, preparations, and techniques representative of the area. Students will also develop and in depth knowledge of plate design and styling. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 230 - Garde Manger
Description: Pre or Concurrent Requisites: CUL 101
The Garde Manger course utilizes lectures, demonstration, and production to focus in preparation of cold entrees. The student will be introduced to the production of pâté’s terrines, sausages, galantines and hors d’oeuvres. Special emphasis will be placed on preservation techniques (curing and aging). This course will emphasize platter designs and plate presentations. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 240 - Baking II
Prerequisites: CUL 140
Description: The Baking II course utilizes lectures, demonstration and cooking for an integrated approach to mastering the fundamentals of baking. This course provides students with the skills and knowledge of producing cakes, butter creams, and icings. Each student is taught proper mixing methods, assembling, icing, and finishing techniques of a variety of cakes and pies. Students are introduced to rolled fondant and develop their piping skills through intricate patterns and techniques. Students will learn how to temper chocolate for the use of fillings and decorative pieces. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 242 - Culinary Internship
Description: Student’s intern with appropriate Food Service Institutions to enrich theoretical concepts previously practiced in the classroom. Students must complete 200 hours on-the-job training as assigned by the instructor in conjunction with assigned papers and coursework. Some office visits are required by the assigned professor.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Summer
Credit Hours: 3
Department: Hospitality Business
CUL 245 - Commercial Baking
Prerequisites: CUL 240
Description: This course introduces students to the management and operation of a commercial retail bakery. Utilizing a combination of lectures and labs, students will acquire the manual skills and product knowledge necessary to produce and market a range of products. Students will work with mixes, bases, and frozen dough products as well as develop commercial products “from scratch.” Advanced methods of baking, product development, cost controls, sanitation and supervisory skills will be included. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 250 - Dining Room Service
Description: Pre or Concurrent Requisites: CUL 101
In the Dining Room course students are introduced to front-of-the-house operations including sales forecasting and professional dining service techniques. Effective communication skills, guest check writing, guest relations and service quality. Students will be introduced and responsible for performing American plate service, Banquets, Buffet, French, Russian, and Family service styles as well as hot and cold beverage service on a daily basis. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 255 - Advanced Dining Room & Banquet Operations
Prerequisites: CUL 250
Description: The Advanced Dining Room and Banquet Operations course builds on skills learned in CUL 250 Dining Room and HTL 178 Event Planning. Students will be responsible for executing all aspects of an on-site café and banquet facilities. Responsibilities will include menu and labor planning, product development, dining room and beverage service, and the complete execution of catered events. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 260 - Quantity Food Production
Prerequisites: CUL 101
Description: The Quantity Food Production course focuses on the food preparation and cooking methods needed to produce food products on a large scale. The use of quantity food production tools and equipment, standardized recipes, buffet set up and breakdown, and the application of speed and accuracy in large scale food production are stressed. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
CUL 265 - Culinary Seminar
Prerequisites: CUL 110
Description: In the Culinary Seminar, students will develop professional skills needed to market themselves in the workplace. They will be required to design personal portfolios and resumes, create self-marketing strategies and/or business plan. Topics of discussion will include business development skills including financial reconciliation; the use of technology in food service; “Green” techniques and strategies; labor planning and forecasting as well as inventory, receiving and storage. Guest lecturers and professional demonstrations will be included along with “networking” events.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business
Dance
DAN
DAN 101 - Dance in the 20th Century
Prerequisites: Satisfactory completion of Remedial Reading.
COURSE DESCRIPTIONS

**DAN 105 - Dance Concepts I**

**Prerequisites:** for Dance A.A. majors only or permission of the department.

**Description:** This is the first course in the DAN 105 - DAN 106 sequence. The use of improvisation to introduce and develop elements of dance composition through exploration of the factors of space, rhythm and dynamics; solo and group studies. Additional independent studio hours are required (3 hours).

**Credit Hours:** 1

**Department:** Theatre & Dance

**DAN 106 - Dance Concepts II**

**Prerequisites:** DAN 105.

**Description:** The use of improvisation to introduce and develop elements of dance composition through exploration of the factors of space, rhythm and dynamics; solo and group studies. Additional independent studio hours are required (3 hours).

**Credit Hours:** 2

**Department:** Theatre & Dance

**DAN 117 - African American Dance Ensemble, Rehearsal and Performance**

**Description:** (Dual listed with AFR 110 - AFR 111)

This is the first course in the DAN 117 - DAN 118 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble Productions. SUNY GEN ED-n/a; NCC GEN ED-HUM

**Offered:** Fall, Spring

**Credit Hours:** 1

**Department:** Theatre & Dance

**DAN 118 - African American Dance Ensemble, Rehearsal and Performance**

**Description:** (Dual listed with AFR 110 - AFR 111)

This is the second course in the DAN 117 - DAN 118 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble Productions. SUNY GEN ED-n/a; NCC GEN ED-HUM

**Offered:** Fall

**Credit Hours:** 1

**Department:** Theatre & Dance

**DAN 125 - A Survey of the Art of African American - Dancers and Choreographers**

**Description:** (Dual listed with AFR 112)

An introduction to the contributions of African American creative and performing artists to the development of social and theatrical dance in America. Classroom demonstrations by representative artists and field trips to dance concerts are part of the curriculum. SUNY GEN ED-GART, GHUM; NCC GEN ED-HUM

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Theatre & Dance

**DAN 126 - Introduction to Modern Dance**

**Description:** Studio work in basic dance techniques; movement and combinations explored and analyzed with emphasis on elements of space, energy and time. The aim: to develop (1) body awareness; (2) the ability to control and direct one's own body in organized rhythmic movement; (3) organic dance movement and an individually expressive body. No previous experience necessary. The course substitutes for one credit of physical education activity. Attendance at off-campus dance productions required (3 hours).

**SUNY GEN ED-n/a; NCC GEN ED-PED, HUM**

**Offered:** Fall, Spring, Summer

**Credit Hours:** 1

**Department:** Theatre & Dance

**DAN 127 - Modern Dance I**

**Prerequisites:** Dance Major or permission of department.

**Description:** This is the first course in the DAN 127 - DAN 128 sequence. Training in modern dance techniques to develop (a) the body as a performing instrument, and (b) an awareness of the movement principles and aesthetic elements of specific dance studies (3 hours).

SUNY GEN ED-GART; NCC GEN ED-HUM

**Offered:** Spring

**Credit Hours:** 2

**Department:** Theatre & Dance

**DAN 128 - Modern Dance II**

**Prerequisites:** DAN 127.

**Description:** This is the second course in the DAN 127 - DAN 128 sequence. Training in modern dance techniques to develop (a) the body as a performing instrument, and (b) an awareness of the movement principles and aesthetic elements of specific dance studies (3 hours).

SUNY GEN ED-n/a; NCC GEN ED-HUM

**Offered:** Spring

**Credit Hours:** 2

**Department:** Theatre & Dance

**DAN 129 - Rehearsal and Performance**

**Prerequisites:** for Dance A.A. degree majors only or permission of the department.

**Description:** This is the first course in the DAN 129 - DAN 132 sequence. Study and performance of selected choreographed works and new works which may be traditional, contemporary or experimental in concept and structure. (Available for one credit each semester to be taken in a four-semester sequence.)

SUNY GEN ED-n/a; NCC GEN ED-HUM

**Offered:** Fall

**Credit Hours:** 1

**Department:** Theatre & Dance

**DAN 130 - Rehearsal and Performance**

**Prerequisites:** for Dance A.A. degree majors only or permission of the department.

**Description:** This is the second course in the DAN 129 - DAN 132 sequence. Study and performance of selected choreographed works and new works which may be traditional, contemporary or experimental in concept and structure. (Available for one credit each semester to be taken in a four-semester sequence.)

SUNY GEN ED-n/a; NCC GEN ED-HUM

**Offered:** Spring

**Credit Hours:** 1

**Department:** Theatre & Dance

Nassau Community College: https://collegecatalog.ncc.edu/current
### COURSE DESCRIPTIONS

**DAN 131 - Rehearsal and Performance**  
**Prerequisites:** for Dance A.A. degree majors only or permission of the department.  
**Description:** This is the third course in the DAN 129 - DAN 132 sequence. Study and performance of selected choreographed works and new works which may be traditional, contemporary or experimental in concept and structure. (Available for one credit each semester to be taken in a four-semester sequence.)  
SUNY GEN ED-n/a; NCC GEN ED-HUM  
Offered: Fall  
**Credit Hours:** 1  
**Department:** Theatre & Dance

**DAN 132 - Rehearsal and Performance**  
**Prerequisites:** for Dance A.A. degree majors only or permission of the department.  
**Description:** This is the fourth course in the DAN 129 - DAN 132 sequence. Study and performance of selected choreographed works and new works which may be traditional, contemporary or experimental in concept and structure. (Available for one credit each semester to be taken in a four-semester sequence.)  
SUNY GEN ED-n/a; NCC GEN ED-HUM  
Offered: Spring  
**Credit Hours:** 1  
**Department:** Theatre & Dance

**DAN 139 - Ballet for Non-Majors**  
**Description:** A course designed for non-major students. The non-major students will acquire essential ballet terminology, knowledge of movement theories as well as practical understanding of the classical and contemporary principles of ballet aesthetics as a performing art. Areas of class work will include barre practices for body alignment, feet and arm configurations, center work with allegro and adagio movement combinations with variations across the space of the dance studio.  
SUNY GEN ED-n/a; NCC GEN ED-HUM  
Offered: Fall, Spring  
**Credit Hours:** 2  
**Department:** Theatre & Dance

**DAN 140 - Elementary Modern Dance Technique and Ballet**  
**Prerequisites:** for Dance A.A. degree students. This is the first course in the DAN 140 - DAN 141 sequence. The elementary dancer learns the basic disciplines in dance as a performing art and acquires the knowledge and understanding of the movement principles underlying these skills.  
**Description:** SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM  
Offered: Fall  
**Credit Hours:** 3  
**Department:** Theatre & Dance

**DAN 141 - Elementary Modern Dance Technique and Ballet**  
**Prerequisites:** DAN 140.  
**Description:** This is the second course in the DAN 140 - DAN 141 sequence. The elementary dancer learns the basic disciplines in dance as a performing art and acquires the knowledge and understanding of the movement principles underlying these skills.  
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM  
Offered: Spring  
**Credit Hours:** 3  
**Department:** Theatre & Dance

**DAN 190 - Contemporary Dance Techniques and Performance**  
**Prerequisites:** DAN 140 and DAN 141.  
**Description:** This is the first course in the DAN 240 - DAN 241 sequence. The intermediate dancer works to develop the technical skills and understanding essential to performance of modern dance and ballet works.  
SUNY GEN ED-GART; NCC GEN ED-HUM  
Offered: Fall  
**Credit Hours:** 3  
**Department:** Theatre & Dance

**DAN 191 - Contemporary Dance Techniques and Performance**  
**Prerequisites:** DAN 240.  
**Description:** This is the second course in the DAN 240 - DAN 241 sequence. The intermediate dancer works to develop the technical skills and understanding essential to performance of modern dance and ballet works.  
SUNY GEN ED-GART; NCC GEN ED-HUM  
Offered: Spring  
**Credit Hours:** 3  
**Department:** Theatre & Dance

### Economics

**ECO 100 - Survey of Economics**  
**Description:** A survey of the basic principles of economics, with application to contemporary issues. Operation of markets, determination of national income and its measurements, the role of financial markets, monetary and fiscal policies, and international trade are to be considered, as well as their impact upon the economy, individuals, and businesses. Business majors should take ECO 207 - ECO 208.  
SUNY GEN ED-GSBS; NCC GEN ED-SBS  
Offered: Fall, Spring, Summer  
**Credit Hours:** 3  
**Department:** Economics and Finance

**ECO 110 - Personal Finance**  
**Description:** (Dual listed with FIN 110) Personal Finance prepares students to manage their current and future financial affairs. Topics to be covered include: financial planning, saving and credit, insurance, government transfers, home buying, stocks, bonds, mutual funds, and estate planning. This is a practical and sophisticated course intended to aid students with their personal finances.  
SUNY GEN ED-GSBS; NCC GEN ED-SBS  
Offered: Fall, Winterim, Spring, Summer  
**Credit Hours:** 3  
**Department:** Economics and Finance

**ECO 111 - Introduction to Finance**  
**Description:** (Dual Listed with FIN 111) This course offers an introduction to financial decision making and the basic structure of institutions in contemporary financial markets. Topics include time value of
COURSE DESCRIPTIONS

money, risk and return, investment types, the role of government regulation, the influence of globalization in contemporary financial markets and evaluation of financial performance and return. The role of ethics in financial decision making and institutional policy will be discussed. Internet and data base research will be used to support the course curriculum and help the student develop the necessary skills to analyze realistic scenarios used in financial markets.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Economics and Finance

ECO 112 - Introduction to Investments

Description: (Dual listed with FIN 112)
An introduction to financial investments and portfolio management. Course topics include: financial markets and instruments, reading financial listings, stock trading and indexes, risk analysis, present and future value, stock valuation and investment decisions, portfolio management, individual and portfolio yields, types and uses of derivatives, sources of investment information, mutual funds, international diversification, the macroeconomy and the impact of economic variables on investments.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Economics and Finance

ECO 207 - Principles of Macroeconomics

Prerequisites: Students must have satisfied all remediation in MATH.

Description: An introductory course that studies the behavior of the economy as a whole. The course explores the supply and demand model, the measurement of macroeconomic indicators (Gross Domestic Product, unemployment, inflation, and growth) and macroeconomic theories of economic fluctuations. Other topics covered include the role of the federal government and the Federal Reserve in the economy through fiscal and monetary policies, and the basic framework of international trade.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Economics and Finance

ECO 208 - Principles of Microeconomics

Prerequisites: Students must have satisfied all remediation in MATH.

Description: An introductory course that studies the behavior of individual decision makers and their effect on individual markets. This course explores the supply and demand model, consumer choice, and producer decisions under perfect and imperfect competitive conditions. Other covered topics may include factor markets and environmental economics.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Economics and Finance

ECO 212 - Economic Statistics

Prerequisites: MAT 102 or permission of instructor.

Description: An introduction to economic statistics. Topics covered include review of statistical inference, time series analysis, index numbers and introduction to econometrics. This course will help students understand the construction and uses of business, government and other social statistics. Topics will include the CPI, GNP, and risk analysis.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Credit Hours: 3

Department: Economics and Finance

ECO 213 - Money and Banking

Prerequisites: ECO 207 or permission of the Department Chair.

Description: (Dual listed with FIN 213)
Basic concepts of money and financial intermediaries. Development of commercial banks and the creation of demand deposits. Yield, risk, and interest rates will be analyzed from a monetary and fiscal perspective. Functions and policies of the Federal Reserve in credit regulation and economic stabilization will be analyzed. Monetary Theory, Keynesian vs. Monetarists, international finance, exchange rates and the balance of payments will be examined.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Economics and Finance

ECO 214 - Corporation Finance

Prerequisites: ECO 207 or permission of instructor.

Description: (Dual listed with FIN 214)
An introductory course describing the role and functioning of business firms in the economy, and the application of economic theory in the solution of managerial decisions. Topics investigated include the management of cash, inventories and receivables; selection of alternative investments; short, intermediate, and long-term sources of financing; the cost of capital, optimum capital structure; corporate dividend policies. Case problems are assigned to develop applications of general principles.

SUNY GEN ED-n/a; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Economics and Finance

ECO 215 - Economic Development of the U.S. (Economic History)

Description: The economic forces which brought the United States from an undeveloped wilderness to its present position of world leadership will be examined. The role of economic institutions will be considered in the transformation of our nation into a highly centralized, interdependent society. The economic, social, and political problems concomitant with this development will also be studied.

SUNY GEN ED-GSBS; NCC GEN ED-SBS, WESH
Offered: Fall

Credit Hours: 3

Department: Economics and Finance

ECO 216 - Economics of the Developing World

Prerequisites: ECO 207 or permission of the Department Chair.

Description: This course is an introductory study of the economic development of Third World countries. It focuses on the role of education, health, human resources, planning, income distribution, food supplies, natural resources and international trade in nations' development. Students will work with data, graphs and maps. Students will learn to identify and understand the differences between developed and developing nations, their respective development patterns, as well as the impact of increasing global interdependence.

SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, PLDI
Offered: Spring, Summer

Credit Hours: 3

Department: Economics and Finance

ECO 218 - International Economic Systems: A Study Abroad

Prerequisites: ECO 207 or ECO 208 and permission of instructor.

Description: An in-depth and comparative study of the structure, conduct, and performance of alternate economic systems. Students will study the economic and financial institutions and public policies of selected economic systems. The course is offered abroad for six weeks in the summer only. For
additional information, contact the Department of Economics/Finance.
SUNY GEN ED-GSBS; NCC GEN ED-SBS, GLNW, WESH
Credit Hours: 6
Department: Economics and Finance

ECO 222 - Economic Geography of the World
Description: A multidisciplinary course that examines how economic and geographic conditions affect world economic activities and global development. Topics to be discussed include resource use, population, energy, agriculture, the environment and international trade. Globalization and international efforts to promote growth will also be discussed.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-GLNW, PLDL, SBS
Offered: Fall, Spring
Credit Hours: 3
Department: Economics and Finance

ECO 230 - Introduction to International Economics and Finance
Prerequisites: ECO 207 or permission of instructor.
Description: (Dual listed with FIN 230) A study of the United States as an open economy which trades in goods, services and financial assets with other nations. Topics include the reasons nations trade; the costs and benefits of free trade; tariff and non-tariff barriers; regional trade pacts; economic and monetary integration; foreign exchange rate determination; balance of payment and monetary integration; foreign exchange rate determination; balance of payment and monetary integration; foreign exchange rate determination; balance of payment and monetary integration. Students who have completed ECO 207 plus one other economics or finance course and permission of the instructor. Students must have, as a minimum, a 2.50 GPA to be enrolled in this internship course. Students who have completed ECO 490 will not receive credit for ECO 294.
SUNY GEN ED-n/a; NCC GEN ED-SBS
Credit Hours: 4
Department: Economics and Finance

ECO 244 - Cooperative Education Internship
Prerequisites: ECO 207 and one other ECO or FIN course and permission of the instructor.
Description: (Dual listed with FIN 294) Supervised, practical experience at institutions such as commercial banks, thrift institutions, stock and bond brokerage houses, government agencies and firms employing economic practitioners that will provide students with situations in which they can apply concepts learned in previous Economics and Finance courses. Written reports demonstrating understanding of theory and its application will be an integral aspect of this course. Field experience and future career opportunities will be discussed in co-lateral, on-campus class. Prerequisite for this course is the completion of Economics 207 plus one other economics or finance course and permission of the instructor. Students must have, as a minimum, a 2.50 GPA to be enrolled in this internship course. Students who have completed ECO 490 will not receive credit for ECO 294.
SUNY GEN ED-n/a; NCC GEN ED-SBS
Credit Hours: 3
Department: Economics and Finance

Education

EDU

EDU 101 - Applied Behavior Analysis: Field Experience I
Prerequisites: Permission of Chairperson.
Description: A systematic examination of facilities for the education of special education children. Emphasis is placed upon developing the student's understanding of applied behavior analysis, atypical vs. typical development, the analysis of human behavior and techniques for behavioral change, and developmentally appropriate curriculum. Field experience is designed to provide the student with opportunities for observation and participation in public and private schools for a minimum of three hours a week. (3 lecture, 3 laboratory hours). Students who have taken SEV 101 will not receive credit for EDU 101.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Psychology

EDU 102 - Applied Behavior Analysis: Field Experience II: Practicum
Prerequisites: EDU 101 and permission of Chairperson.
Description: Supervised field experience in preschool-12th grade classes within both special and regular education classes for a minimum of 9 hrs. per week. Students will be required to demonstrate competence in developmentally age-appropriate curriculum and behavioral programs. Lecture is devoted to discussion of problems encountered on field experience. (1 lecture, 9 laboratory hours) Students who have taken SEV 102 will not receive credit for EDU 102.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Psychology

EDU 104 - Infants and Toddlers
Description: Will explore programs, curricula for the care of children ages 6 weeks through the second year who are in group care settings. Appropriate techniques for fostering the emotional, physical, social, and cognitive development of the very young will be examined. Field visits to infant and toddler programs will be required. Students who have taken SEV 104 or NED 106 will not receive credit for EDU 104.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Summer
Credit Hours: 3
Department: Multidisciplinary Studies

EDU 105 - Introduction to Developmental Disabilities
Description: This course will provide an overview of developmental disabilities and the nature and needs of disabled people throughout the life cycle. Issues to be explored include definition of developmental disability, etiology, normalization, mainstreaming, and the role of the interdisciplinary team. Legal, ethical and cultural considerations will be emphasized as well as the impact of disabilities on the person affected, the family and the community. Students who have taken SEV 105 will not receive credit for EDU 105.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Psychology

EDU 206 - Educational Psychology
Prerequisites: PSY 203.
Description: (Dual listed with PSY 206)
This course is intended to provide knowledge and understanding of the major theories and findings of the science of Educational Psychology. The course includes a consideration of such topics as: research methods in educational psychology; the cognitive, personal, social and moral development of students; the impact of student diversity on teaching and learning; the principles and processes of learning; motivational concerns in education; classroom management; techniques of teaching; and methods of assessing student learning. Students who have taken PSY 206 will not receive credit for EDU 206.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

EDU 208 - Foundations of Education
Prerequisites: PSY 203 and PSY 212 or PSY 213.

Description: This introductory course presents an overview of the historical, philosophical, sociological and pedagogical influences on American education. Prominent figures who have shaped education and Supreme Court cases that have influenced educational policy are examined. Major trends in contemporary education are analyzed with special focus on multicultural and inclusive education. Students who have taken PSY 208 will not receive credit for EDU 208.

SUNY GEN ED-n/a; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

EDU 235 - Psychology of the Exceptional Child
Prerequisites: PSY 203 and PSY 212 or PSY 213.

Description: Students who have taken PSY 235 will not receive credit for EDU 235. This course examines the psychological, learning and behavioral characteristics of each category of exceptionality. Students will be introduced to special education laws and their implications for identification, delivery systems, transition plans, and placement procedures. Field experience in a special education setting is required.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

Electrical Engineering Technology

ELT

ELT 103 - Elementary Engineering I
Description: An introductory course in the art of engineering designed to acclimate the students to the engineering profession and to acquaint them with the techniques and methodology of engineering design. The "design" aspect of the course consists of an introduction to computer integration (as it applies to the engineering profession), graphical techniques, and design oriented problems using analysis software. The objectives of the design section entail the generation of engineering related problems. (1 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 1
Department: Engineering/Physics/Tech

ELT 110 - Technical Practices
Description: An introductory study of the technical practices employed in the electronics industry, with particular emphasis on the design and construction of metal chassis, printed circuit boards, proto boards, component identification and hand tool usage to be developed by the construction of technical projects. (Every student must complete the electronic projects for completion of the course. The proto board and projects will be used in other ELT courses when completed.) Approximate cost: $80.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 2
Department: Engineering/Physics/Tech

ELT 112 - Resistive Circuits
Description: Pre or Concurrent Requisites: MAT 109.
An introductory resistive circuits course employing applied mathematics for circuit analysis. The fundamental concepts of current, voltage and resistance are the major components of the course. Ohm's law, Kirchhoff's laws, voltage division, current division, Thévenin's theorem, superposition, and mesh/node analysis are included as methods of analyzing resistive circuit parameters. The laboratory segment of the course provides instruction on electronic measuring equipment and practical circuit investigations. Analog and digital multimeters, power supplies, function generators, and the oscilloscope are included. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 4
Department: Engineering/Physics/Tech

ELT 113 - Electronics I
Prerequisites: ELT 112 and MAT109
Description: Corequisite: ELT115
This course begins a sequence of two courses in electronics. Semiconductor physics is introduced with applications of the semiconductor diode to rectification, clipping and clamping. The junction transistor is studied with special regard given to biasing techniques, small and large signal amplification. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring

Credit Hours: 4
Department: Engineering/Physics/Tech

ELT 115 - Reactive Circuits
Prerequisites: ELT 112.
Description: Steady state response of circuits containing resistive, capacitive, and inductive elements subject to sinusoidal excitation. Transient responses of these circuits subject to step or pulse excitation. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring

Credit Hours: 4
Department: Engineering/Physics/Tech

ELT 203 - Automatic Control Theory II
Description: This course introduces the concepts of applied electronic instrumentation and automatic control. Computer analog and digital instrument circuits, and computer interface concepts are introduced during the course of study. The laboratory reinforces industrial instrumentation applications for DC control circuits using selected input/output devices. The introduction of open and closed loop position control systems (servo system, stepper motors, and robotic systems) is also included. (Each student is responsible for the implementation of an electronic control circuit project.) Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall

Credit Hours: 3
Department: Engineering/Physics/Tech

ELT 213 - Electronics II
Prerequisites: ELT 113.
Description: A continuation of ELT 113 beginning with a study of multi-stage amplifiers, Bode diagrams and the frequency response of amplifiers. The Operational Amplifier and its more common applications are considered in detail. Filters, electronic communication concepts and some special topics conclude the sequence. Students work in teams to implement and present an electronics project as part of their laboratory experience. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 4
Department: Engineering/Physics/Tech

ELT 214 - Digital I
Prerequisites: ELT 112.
Description: An introduction to Boolean algebra, Karnaugh minimization and the analysis/design of digital networks including arithmetic circuits, counters, registers and memories. In addition, basic hardware items such as multivibrators, Schmitt triggers, and integrated circuits are analyzed.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring, Summer
Credit Hours: 3
Department: Engineering/Physics/Tech

ELT 215 - Digital II
Prerequisites: ELT 113, ELT 214.
Corequisites: ELT 217.
Description: Introduction to pulse analysis (integrators and differentiators) as well as transistor switch, bistable, monostable, integrated circuits (DTL, TTL, ECL, MOS, CMOS, HMOS, VMOS, CCD) LSI (dynamic shift register, memory-ROM, RAM) CP AMF and Modems.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3
Department: Engineering/Physics/Tech

ELT 217 - Lab in Digital Electronics
Prerequisites: ELT 214.
Corequisites: ELT 215.
Description: Examination of basic logic components such as gates, counters, clocks, registers, and computing elements by constructing and monitoring complex digital systems. (3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 1
Department: Engineering/Physics/Tech

ELT 220 - Advanced Topics in Digital Technology
Prerequisites: ELT 215 or permission of Department Chairperson.
Description: Theory and operation of microprocessors and peripherals, industrial and control systems applications of digital technology, machine and assembly language programming. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

ELT 240 - Electronic Communication
Prerequisites: ELT 213.
Description: This course deals with the methods and signals used to electronically transmit and receive information. Topics include a study of continuous modulation techniques such as AM, FM, PM, as well as a variety of Pulse Modulations methods. Included are selected topics in electronic communication systems and their controls. Students receive hands-on experience in the laboratory and a working knowledge of the basic bench instrumentation commonly used within the communications industry, including signal generators, modulators, oscilloscopes and spectrum analyzers. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

ELT 295 - Independent Study- Electronic Technology Engineering
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly ELT 699. Students who have completed ELT 699 will not receive credit for ELT 295.
Credit Hours: 6
Department: Engineering/Physics/Tech

ENG 001 - College Preparatory English
Description: This course provides intense instruction in small classes to enable underprepared students to meet the demands of college-level writing. Specifically, students practice basic writing skills in preparation for the requirements of ENG 101 (See catalog description of ENG 101.) ENG 001 curriculum is designed to teach writing as a process encompassing pre-writing exercises, drafting, revising, and editing, but it is also provides review and instruction in basic grammar, punctuation, sentence boundaries and structural and developmental issues related to basic composition. Freshmen assigned to ENG 001 must pass it before enrolling in ENG 101. ENG 001 is a pass/fail course with no withdrawals allowed. (Students with a foreign language background are referred to the descriptions below of ENG 030. Additionally, ESL sections of ENG 001 are offered to students in need of focused language acquisition work in writing.) (3 lecture hours)
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 0
Department: English

ENG 030 - English as a Second Language (ESL Writing III)
Prerequisites: Placement by Department.
Description: This course prepares students for ENG 101. Advanced language skills and flexibility with advanced sentence structures, vocabulary, and idiomatic expressions are stressed so that students develop correct, clear, and coherent self-expression. Students practice a variety of essay structures with a focus on presenting a point of view and supporting it with evidence. By the end of the semester, students are expected to write developed, coherent essays and to substantively revise, proofread, and edit their work. The course is also designed to develop in students the skills that enable them to interpret and analyze texts. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 6
Department: English

ENG 100 - Enhanced Composition I
Prerequisites: Score on the Placement essay of 5.5 or placement by Department.
Description: This course is equivalent to ENG 101, the first credit-bearing course in composition. ENG 100, created for underprepared students with marginal writing skills offers an extra hour for necessary developmental writing instruction and individualized support toward the creation of college-level essays. Exactly as does ENG 101, the course prepares students to produce clear, well-developed, well organized, grammatically correct writing. The curriculum is designed to give students guided practice in pre-writing, drafting, revising, and editing essays, with the addition of time for review and instruction in basic grammar, punctuation, sentence boundaries and structural and developmental issues
related to basic composition. The course is also designed to develop skills that enable students to interpret and analyze published texts. In addition to readings assigned in class, students respond to texts they locate themselves through research and write at least one documented or research essay. Students who take ENG 100 do not take ENG 001 or ENG 101. Success in ENG 100 indicates movement to ENG 102, the next course in the composition sequence. Students who have completed ENG 100 will not receive credit for ENG 101.

SUNY GEN ED-GBCM; NCC GEN ED-COMP
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 101 - Composition I
Prerequisites: ENG 001, ENG 030 or placement by Department, RDG 001, concurrent enrollment in RDG 030 or placement by Department.
Description: This course prepares students to produce clear, well-developed, well-organized, grammatically correct writing. The curriculum is designed to give students guided practice in drafting, revising, and editing essays. The course is also designed to develop the skills that enable students to interpret and analyze published texts. In addition to readings assigned in class, students respond to texts they locate themselves through research and write at least one documented or research essay. Students who have completed ENG 100 will not receive credit for ENG 101.
SUNY GEN ED-GBCM; NCC GEN ED-COMP
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: English

ENG 102 - Composition II
Prerequisites: ENG 100 or ENG 101.
Description: This course is an introduction to writing about literature. The course is designed for students to practice close reading and organizing evidence to support their written interpretation and analysis of literary texts. The course offers students continued practice in drafting, revising, and editing essays. A primary goal for students is to produce clear, well-developed, well-organized, grammatical writing. For at least one essay, students use research materials.
SUNY GEN ED-GBCM, GHUM; NCC GEN ED-COMP, HUM
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: English

ENG 103 - Writing in the Sciences
Prerequisites: ENG 100 or ENG 101 or ENG 108.
Description: This course is an analytical and writing intensive approach to the development of college-level writing in the sciences. The curriculum gives students practice in drafting, revising, and editing their writing; in using clear, succinct, standard English in expository, analytical, and practical writing assignments. Students analyze and interpret published texts in the sciences. Typical assignments include lab reports, abstracts, and reviews of research. At least one assignment requires students to produce well written, grammatically correct writing. The curriculum gives students practice in drafting, revising, and editing their writing as well as the ability to write clear, well-developed, well-organized, and grammatically correct English.
SUNY GEN ED-GBCM; NCC GEN ED-COMP
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 105 - Grammar: Structure and Strategy
Prerequisites: ENG 100 or ENG 101 or ENG 108.
Description: This course is for students interested in improving their ability to write academic and professional English. It focuses on vocabulary, grammar, and punctuation at the sentence and paragraph levels. Students will study grammar, not only through rules and textual models, but also in the context and practice of their own writing and editing.
SUNY GEN ED-GBCM; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 108 - The Craft of Composition / Honors English I
Prerequisites: By invitation only.
Description: This course centers on the study of rhetorical form-narration, description, classification, process analysis, definition, comparison/contrast, cause/effect and problem/solution-and uses the essay form as its method of investigation. The course is designed to give students a critical awareness of language and to teach language techniques through extensive readings. This course fulfills the college requirement for the first semester of English composition.
SUNY GEN ED-GBCM; NCC GEN ED-COMP
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 109 - The Art of Analysis / Honors English II
Prerequisites: ENG 108 and/or by invitation.
Description: The second half of Honors English integrates literature-the introduction of poetry, fiction and drama-with further instruction in expository writing. The emphasis is on analyzing literature as a way of developing personal style. The course includes extensive readings of major literary figures whose works are the heritage of educated people. The course fulfills the College requirement for the second semester of English composition.
SUNY GEN ED-GBCM, SUNY GEN ED-GHUM, NCC GEN ED-COMP, HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 115 - Creative Writing
Prerequisites: ENG 102 or ENG 109
Description: This course, conducted as a workshop, is for students interested in exploring their writing style within the basic imaginative genres: fiction, creative non-fiction, poetry, and script writing. Students will read and analyze literary models and then focus on their own writing, partaking in peer revision. Students are expected to complete one of the following: attend a literary reading; submit to or work on the student literary magazine Luna; participate in an activity sponsored by the Creative Writing Club or Creative Writing Project. Formerly ENG 313. Students who have completed ENG 313 will not receive credit for ENG 115.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 116 - Play & Screen Writing
Prerequisites: ENG 102 or ENG 109 and permission of instructor or Department Chair.
COURSE DESCRIPTIONS

Description: This course, conducted as a workshop, is for students interested in exploring the craft of writing for the stage and screen. Students will read and analyze classic and contemporary dramas and then focus on their own scripts, partaking in peer revision. Students are expected to complete one of the following: attend a literary reading; submit to or work in the student literary magazine Luna; participate in an activity sponsored by the Creative Writing Club. Formerly ENG 316. Students who have completed ENG 316 will not receive credit for ENG 116.

SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Spring
Credit Hours: 3
Department: English

ENG 120 - Creative Nonfiction Writing
Prerequisites: ENG 102 or ENG 109.
Description: This course, conducted as a workshop, will enable students to explore a fourth writing genre: creative nonfiction. Student writers will utilize traditional literary techniques, such as point of view, dialogue, characterization, scene construction, and aesthetics to translate life experiences into compelling pieces of literature. Students will read and analyze nonfiction literary models, attempting to emulate the samples in their own writing. Students are expected to complete one of the following: attend a literary reading; submit to or work on the student literary magazine Luna; participate in an activity sponsored by the Creative Writing Club or Creative Writing Project.

SUNY GEN ED-GART, NCC GEN ED-FAPA, HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 203 - Early American Literature to 1865
Prerequisites: ENG 102 or ENG 109 or ENG 103 or ENG 109.
Description: This course covers development of African American literature from early slave narratives (some in translation), Revolutionary Era writers, and early National writers, including some texts by former slaves. Some representative authors are: Bradford, Winthrop, Wheatley, Franklin, Irving, Poe, Douglass, Emerson, Fuller, Hawthorne. Writing is an integral component of the course.

SUNY GEN ED-GHUM; NCC GEN ED-WESH, HUM, LIT
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 204 - Modern American Literature from 1865 to Present
Prerequisites: ENG 102 or ENG 109.
Description: This course studies evolving notions of the American individual and American society since the Civil War. Attention is paid to important literary texts and authors, significant historical and political events, and artistic innovations and movements. Writers studied include authors such as: Dickinson, Whitman, Twain, Wharton, Washington, DuBois, Eliot, Hemingway, Faulkner, Ellison, Baldwin, Plath, Rich, Alexie and others. Writing is an integral component of the course.

SUNY GEN ED-GHUM; NCC GEN ED-WESH, HUM, LIT
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 205 - Early English British Literature to 1800
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: Students are introduced to major English writers in Britain from the Anglo-Saxon period to the 18th century. Themes, ideas and literary form of literary works are examined with the aims of appreciating the aesthetics and understanding the historical background. Literature is examined as both a product of its time and as influential force in society. Representative writers include: Chaucer, Shakespeare, Milton, Defoe, Swift, and Pope. Writing is an integral component of the course.

SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 206 - Modern British Literature from 1800 to 1950
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: Students are introduced to major British writers from the late 18th century to the mid Twentieth century, roughly 1950. Writers such as Wordsworth, Arnold, Dickens, Woolf, Eliot, Yeats, and Du Maurier are studied. Each work is read both for understanding of its aesthetic form and for its relationship to the events and ideas of its historical time. Writing is an integral component of the course.

SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 207 - African American Literature I
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: (Dual listed with AFR 130) This course covers development of African American literature from early slave narratives and folklore following the advent of the trans-Atlantic slave trade through the Revolutionary, pre- and post-Civil War periods, to the major literary flowering of the 1920s Harlem
DESCRIPTIONS

Renaissance. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: English

ENG 208 - African American Literature II
Prerequisites: AFR 130 or ENG 207 or permission of the African Studies Department.
Description: (Dual listed with AFR 131)
The course examines the ideas, themes, and aesthetics in literature by African Americans from the 1930s to the present. Diverse writers such as Dorothy West, Malcom X, Ralph Ellison, James Baldwin, Gwendolyn Brooks, Robert Hayden, Alice Walker, Tony Morrison, and Walter Mosely are read. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI
Offered: Spring
Credit Hours: 3

Department: English

ENG 209 - Modern Irish Literature
Prerequisites: ENG 102 or ENG 109.
Description: This course examines outstanding works by major writers such as Yeats, Joyce, Shaw, O’Casey, O’Connor, Behan, and Beckett and their cultural background in relation to the Irish literary tradition. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-WESH, HUM, LIT
Offered: Fall, Spring
Credit Hours: 3

Department: English

ENG 215 - Journalism
Prerequisites: ENG 100 or ENG 101 or ENG 108.
Description: The course examines the principles and practices of journalism and the media’s role in a democratic society. The course introduces students to basic reporting and news writing skills, including interviewing, researching, and fact-checking. Students produce texts representing multiple genres of journalism, including hard news, features, profiles, critical reviews, cultural commentary, blogs, and op-ed articles. Students are introduced to the changes in journalism that have occurred due to the internet revolution.
SUNY GEN ED-GBCM; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: English

ENG 216 - Autobiographical Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course is a study of autobiographical literature, including, but not limited to, traditional autobiography, memoir, travel writing, and the personal essay. Students will read and examine representational pieces of autobiographical writing in order to assess how authors characterize themselves, their life choices, and their views of the world through prose. Writing is an integral component of the course. Students who have taken ENG 217 are discouraged from taking this course.
SUNY GEN ED-B; NCC GEN ED-HUM, LIT
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: English

ENG 219 - Jewish Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course introduces the range and diversity of Jewish writing from Biblical-era commentary to present-day texts. It enables students to appreciate literary development in relation to modern Jewish thought, culture, and creativity. The course includes works written in English and translations from Western and non-Western Jewish literatures. Writing is an integral component of the course, as is the use of other media, including art, music, and film.
SUNY GEN ED-B; NCC GEN ED-GLNW, HUM, LIT, PLDI, WESH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3

Department: English

ENG 220 - Mythology and Folklore
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course is a study of the mythological roots of literatures such as Greek, Roman, Indian, African, and Chinese mythology, tales from the Bible, and folk material such as ballads, fables, and proverbs. Myths and symbols are traced from their early sources through the 21st century. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-GLNW, HUM, LIT
Offered: Fall, Spring
Credit Hours: 3

Department: English

ENG 221 - Modern American Novel
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: Selected modern and contemporary authors such as Dreiser, Fitzgerald, Dos Passos, Baldwin, Wright, Welty, Morrison, Bellow, Husseini, Oates, and Erdrich are studied in relation to the historical and intellectual background of their times. Writing is an integral component of the course. Formerly ENG 305. Students who have completed ENG 305 will not receive credit for ENG 221.
SUNY GEN ED-GHUM; NCC GEN ED-PLDI, HUM, LIT
Offered: Spring
Credit Hours: 3

Department: English

ENG 222 - Latin American Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: (Dual listed with LAS 222) This course introduces students to the range of literary traditions that comprise the literatures of Latin America. It examines literary productions in specific cultural and historical contexts. Most literary works are translated into English from Spanish or Portuguese; a few may be from indigenous languages, French, or Haitian creole. Representative countries include: the North American nation of Mexico, Central American nations such as Nicaragua, El Salvador, and Guatemala; Caribbean nations such as Cuba and Puerto Rico; and many South American nations such as Argentina, Colombia, Brazil, Chile, and Uruguay. Writing is an integral component of the course. This course may not be used for foreign language credit.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI
Offered: Fall, Spring
Credit Hours: 3

Department: English

ENG 223 - Masterworks of Literature I
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: Students read selected masterpieces of world literature before 1500 C.E., such as, but not limited to, The Iliad, The Odyssey, the Torah, the Koran, the Ramayana, the Divine Comedy, Canterbury Tales, the Tale of Genji, and dramatic works by Shakespeare. Formerly ENG 311. Students who have completed ENG 311 will not receive credit for ENG 223.
SUNY GEN ED-GHUM; NCC GEN ED-LIT, HUM
Offered: Fall, Spring
Credit Hours: 3

Department: English
ENG 224 - Masterworks of Literature II
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: Students read selected masterpieces of world literature written after 1500 C.E.; such as Paradise Lost, The Dream of the Red Chamber, Madame Bovary, Crime and Punishment, A Hundred Years of Solitude, The Stranger, and Things Fall Apart. Writing is an integral component of the course. Formerly ENG 312. Students who have completed ENG 312 will not receive credit for ENG 224.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall, Spring
Credit Hours: 3
Department: English

ENG 225 - Introduction to Linguistics and Semantics I
Prerequisites: ENG 100 or ENG 101 or ENG 108.
Description: This course is a study of basic aspects of language (e.g., phonetics, phonology, morphology, semantics) as well as language in its social context (e.g. ethnic, regional, social, and gender differences). SUNY GEN ED-GBCM; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 3
Department: English

ENG 226 - Introduction to Linguistics and Semantics II
Prerequisites: ENG 100 or ENG 101 or ENG 108.
Description: This course examines grammatical systems and linguistic theory with primary emphasis upon first and second language acquisition. SUNY GEN ED-GBCM; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: English

ENG 227 - South Asian Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course will introduce students to the diverse literatures of South Asia. It will provide an understanding of the literary and cultural traditions of the sub-continent: classical, Islamic, European, and postcolonial. This course will include texts in English and in translation from such countries as India, Pakistan, Bangladesh, Nepal, Sri Lanka, and Tibet. Writing is an integral component of this course.
SUNY GEN ED-GHUM; NCC GEN ED-GLNW, HUM, LIT
Offered: Spring
Credit Hours: 3
Department: English

ENG 228 - Asian American Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course explores literature by writers of Asian ancestry living in the United States, from the early 1900s to the present. It examines the historical, social and cultural contexts of the literary works. The varied ethnic groups include: Chinese, American, Japanese, American, Filipino American, Korean American, Vietnamese American, and Pakistani American. Some representative authors are: Carlos Bulosan, John Okada, Maxine Hong Kingston, Bharati Mukherjee, and Amy Tan. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-PLDI, HUM, LIT
Offered: Fall
Credit Hours: 3
Department: English

ENG 229 - Native American Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course examines narrative styles and themes in Native American literature, and focuses on its embodiment of traditional American Indian concepts of time, space, history, spirit, body, and community. How Native American literature adapts oral literature and its traditions to the requirements of written literature is central to the course. It also studies myth, pastiche, and humor as literary modes employed to challenge stereotypical depictions of "the Indian" in dominant Western culture. Authors include: N. Scott Momaday, Leslie Marmon Silko, Louise Erdrich, Greg Sarris, Sherman Alexie, James Welch and Paula Gunn Allen. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: English

ENG 230 - Modern British &amp; American Drama
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course surveys British and American drama from the 20th century to the present encompasses a variety of aesthetic, political, and philosophical interests: social Darwinism, Freudian psychology, existentialism, the theatre of the absurd, minimalism, feminism, and the perspectives of Civil Rights' Movements. Representative playwrights might include Eugene O'Neill, Langston Hughes, Samuel Beckett, Harol Pinter, Tom Stoppard, Luis Valdez, Adrienne Kennedy, and August Wilson. Formerly ENG 309. Students who have completed ENG 309 will not receive credit for ENG 230.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall
Credit Hours: 3
Department: English

ENG 231 - Mystery and Detective Fiction
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: The course offers a historical survey of mystery and detective fiction as well as of the various subcategories of the genre (e.g. the classic mystery, the noir mystery and contemporary realistic fiction). Short story, novel length and cinematic representatives of the genre may be included. Representative authors include: Poe, Doyle, Christie, Chandler, Grafton, Mosley, and Hillerman. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 232 - Studies in Children Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course examines narrative styles and themes in children's literature, and focuses on its embodiment of traditional American Indian concepts of time, space, history, spirit, body, and community. How Native American literature adapts oral literature and its traditions to the requirements of written literature is central to the course. It also studies myth, pastiche, and humor as literary modes employed to challenge stereotypical depictions of "the Indian" in dominant Western culture. Authors include: N. Scott Momaday, Leslie Marmon Silko, Louise Erdrich, Greg Sarris, Sherman Alexie, James Welch and Paula Gunn Allen. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: English

ENG 233 - Studies in Science Fiction
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This survey of British and American literature and its traditions to the requirements of written literature is central to the course. It also studies myth, pastiche, and humor as literary modes employed to challenge stereotypical depictions of "the Indian" in dominant Western culture. Authors include: N. Scott Momaday, Leslie Marmon Silko, Louise Erdrich, Greg Sarris, Sherman Alexie, James Welch and Paula Gunn Allen. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: English

ENG 234 - Shakespearean Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course examines narrative styles and themes in Shakespearean literature, and focuses on its embodiment of traditional American Indian concepts of time, space, history, spirit, body, and community. How Native American literature adapts oral literature and its traditions to the requirements of written literature is central to the course. It also studies myth, pastiche, and humor as literary modes employed to challenge stereotypical depictions of "the Indian" in dominant Western culture. Authors include: N. Scott Momaday, Leslie Marmon Silko, Louise Erdrich, Greg Sarris, Sherman Alexie, James Welch and Paula Gunn Allen. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: English
Description: This course examines both historical and thematic aspects of the wide-ranging science fiction genre. Fantastic representations of social, political, technological, and environmental issues are considered. Writers such as Wells, Heinlein, LeGuin, Atwood, Delany, and Butler are studied. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: English

ENG 236 - The Literature of the Bible
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: This course is a study of the Bible in English translation: its narrative and poetry, as well as its literary and historical meaning. Examined as a literary text, the Bible is read in light of its significant contributions to our culture. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH
Offered: Spring

Credit Hours: 3

Department: English

ENG 243 - GLBTQ Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: Through the study of selected literary works, this course provides a background in gay, lesbian, bisexual, and transgender theory and examines 20th century classification of people into these categories of “queer” or “straight.” Selections from classical Greece to present day literature, with emphasis on their historical context, will present issues about the definition, experience, and acceptance of lesbian, gay, bisexual, and transgender people. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI
Offered: Fall, Spring

Credit Hours: 3

Department: English

ENG 247 - Women in Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: This course examines images of women from various feminist, historical, and cultural studies perspectives. The course observes how literary works may reflect or resist stereotypes and gender norms. While literature from different time periods and cultures is analyzed and studied comparatively, emphasis is given to feminist expressions in the twentieth and twenty-first centuries. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI
Offered: Fall

Credit Hours: 3

Department: English

ENG 248 - Women Writers
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: Students explore the variety of literature written by women from various cultures. The course analyzes the point of view and the changing status of the woman writer in contemporary times. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI
Offered: Spring

Credit Hours: 3

Department: English

ENG 251 - Film and Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: This course examines narrative conventions used in both literature and film as well as what is unique to each art. Students study concepts including characterization, narrative, genre, form, symbolism and convention in both media. Content, themes, and film production are studied in historical context. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: English

ENG 252 - Shakespeare on Stage & Page
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: This survey course teaches how to read Shakespeare’s comedies and histories by exploring the character, theme, imagery, poetic techniques, and the evolving conventions of Elizabethan drama in plays such as Twelfth Night, The Tempest, Richard II, Henry IV and Richard III. Attention will be paid to influences of the Elizabethan Era on Shakespeare dramatically, and, of course, Shakespeare’s role in creating this new “modern” era of drama. Writing is an integral component of the course. Formerly ENG 301. Students who have completed ENG 301 will not receive credit for ENG 252.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH
Offered: Fall

Credit Hours: 3

Department: English

ENG 254 - Shakespeare Tragedies
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: This survey course teaches how to read Shakespeare’s tragedies. Students explore Shakespeare’s use of dramatic conventions such as the tragic hero, imagery, theme, and poetic/linguistic techniques in plays such as Macbeth, King Lear, Romeo and Juliet, Caesar, Othello, and Hamlet. Attention will be paid to influences of the Elizabethan Era on Shakespeare’s work and Shakespeare’s influence on Elizabethan drama. Writing is an integral component of the course. Formerly ENG 302. Students who have completed ENG 302 will not receive credit for ENG 254.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: English

ENG 261 - Literature of the Holocaust
Prerequisites: ENG 102 or ENG 103 or ENG 109.

Description: This course introduces students to the response of creative writers to the Nazi plan to destroy European Jewry between 1933 and 1945. Students read an international spectrum of writers and are introduced to the diversity of literary styles writers use to examine and convey the consequences of genocide. Writing is an integral component of the course. Formerly ENG 303. Students who have completed ENG 303 will not receive credit for ENG 261.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH
Offered: Fall, Spring, Summer
COURSE DESCRIPTIONS

SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 263 - The Modern American Short Story
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: Students study short stories by U.S. authors from the nineteenth century to the present. Stories are read with attention to historical and literary influences, and students closely study authors’ use of elements such as plot, characterization, point of view, linguistic choices such as diction and figurative language, setting, and theme. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 265 - Modern American Poetry
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course studies the diversity of American poetry from the 19th century to contemporary times. Analysis of the texts with reference to historical, cultural, artistic and contemporary trends and ideas is emphasized. Writers to be studied include, but are not limited to Whitman, Dickinson, Frost, Eliot, Hughes, Bishop, Lowell, Rich, Plath, Cummings, Ashberry, Harper and Clifton. Writing is an integral component of this course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: English

ENG 267 - Satire
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course examines how satire is used to comment on human behavior and critique society. Representative authors include classics such as Aesop, Juvenal, Jonathan Swift, and Mark Twain as well as twentieth and twenty-first century authors such as Joseph Heller, Dorothy Parker, Dick Gregory, and Steven Colbert. Some media sources are studied.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall
Credit Hours: 3

ENG 271 - Psychoanalytic Approaches to Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: Students read and analyze the impact of psychoanalytical theory on works of literature, focusing on issues such as human consciousness and behavior. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Fall, Spring
Credit Hours: 3
Department: English

ENG 281 - Nature in Literature
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course examines literature that considers the relationship between human beings and the natural world. It includes works that focus on conservation and ecology. It also explores how science relates to literary art. Representative selections include the Bible, medieval poetry and plays, pastoral poetry, plays by Shakespeare, and such writers as Gilbert White, Mary Shelley, Ralph Waldo Emerson, Charles Darwin, Henry David Thoreau, Thomas Hardy, Isak Dinesen, Farley Mowat, Edward Abbey, Annie Dillard, Barry Lopez, Leslie Mamon Silko, and Linda Hogan. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: English

ENG 294 - Independent Study-English
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM. Formerly ENG 699. Students who have completed ENG 699 will not receive credit for ENG 294.
Credit Hours: 3
Department: English

ENG 298 - Comedy: Theory and Development
Prerequisites: ENG 102 or ENG 103 or ENG 109.
Description: This course examines comedic genres such as farce and parody and emphasizes their historical development in works from various cultures. Writing is an integral component of the course.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: English

Engineering Science

ENS

ENS 101 - Graphics
Description: Graphical techniques of design utilizing instrument drawing and free hand sketching are introduced. Principles of projection, isometrics, sections, auxiliary views, as well as floor plans and elevations are used as examples.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 1
Department: Engineering/Physics/Tech

ENS 103 - Elementary Engineering I
Description: An introductory course in the art of engineering designed to acclimate the students to the engineering profession and to acquaint them with the techniques and methodology of engineering design. The "design" aspect of the course consists of an introduction to computer programming (as it applies to the engineering profession), graphical techniques, and design oriented problems. The objectives of the design section entail the generation of engineering related problems. (3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 1
Department: Engineering/Physics/Tech
ENS 104 - Computational Methods in Engineering
Prerequisites: MAT 122, PHY 122 or permission of instructor.
Corequisites: PHY 122 This is a second-semester course in computational methods. This course is intended for students in engineering and applied science. Emphasis is placed on solving engineering related problems through the use of current industry accepted high level programming languages. Analytical as well as approximate solutions are stressed in this course. Students are expected to spend additional time outside of the classroom to complete class assignments and projects. (1 lecture, 3 laboratory hours) Laboratory fee applies.
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Engineering/Physics/Tech

ENS 105 - Introduction to CAD
Description: An introduction to computer-aided drafting (CAD) designed to acquaint the student with the fundamental nature of computer-aided design and basic operational commands. Students will learn how to use a current version of AutoCAD to prepare two-dimensional drawings for architecture, interior design, engineering and construction management. (1 lecture, 3 laboratory hours) SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Engineering/Physics/Tech

ENS 106 - Computer Aided Drafting
Description: equisites: ENS 101. The student will develop mastery of producing general engineering-related drawings using AutoCAD drafting package and solid modeling using AutoShade color rendering package on a personal computer. The student will learn to apply AutoCAD commands to produce two dimensional drawings. Advanced AutoCAD techniques will be explored and used to produce three dimensional drawings. Students will learn to apply shading and coloring techniques using AutoShade in their drawings. (3 laboratory hours) SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 1
Department: Engineering/Physics/Tech

ENS 205 - Statics
Prerequisites: MAT 122, PHY 122.
Description: Introduction to applied vector algebra, force systems, equilibrium. Analysis of structures and machines. Friction, centroids, and moment of inertia.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring, Summer
Credit Hours: 3
Department: Engineering/Physics/Tech

ENS 206 - Dynamics
Prerequisites: ENS 205, PHY 122.
Description: Kinematics of a particle, relative velocities and acceleration, moving coordinate systems, dynamics of a particle, dynamics for systems of particles, kinematics and kinetics of rigid bodies. Euler's Equations, work-energy and impulse-momentum techniques, and introduction to vibrations.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Summer
Credit Hours: 3
Department: Engineering/Physics/Tech

ENS 207 - Mechanics of Materials
Prerequisites: ENS 205.
Description: Introduction to mechanics of materials stress and strain, stress-strain-temperature relations, torsion, bending, deflection, stability, buckling. Computer methods in structural analysis.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

ENS 225 - Engineering Circuit Analysis I
Prerequisites: MAT 123.
Description: Introduction to circuit analysis consisting of free and forced response of simple networks and various methods of analysis, frequency variation and resonance, complex frequency variable, two-port networks, transformers, computer solutions (analog and digital), Fourier series, Laplace transform and transform networks. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 4
Department: Engineering/Physics/Tech

ENS 226 - Engineering Circuit Analysis II
Prerequisites: ENS 225.
Description: Corequisites: MAT 234 A continuation of ENS 225. Topics include complex frequency response; parallel, series, and other resonance forms; magnetically coupled circuits; one and two-part networks; and Fourier analysis. The transient response of the RLC circuit to the step input will be covered by classical means. Laplace transforms will be introduced and applied toward the transfer functions H(s) and the complete response. The laboratory will include AC models of active circuit elements. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

ENS 230 - Engineering Thermodynamics
Prerequisites: MAT 123 and PHY 123.
Description: A first course in engineering thermodynamics, introducing fundamental thermodynamic variables, properties of pure substances and energy relationships. Analysis of open and closed systems based on the classical laws of thermodynamics; concepts of reversibility and entropy; power cycles and engines. A term project requiring the detailed analysis of power cycles will be assigned to each student. Knowledge of at least one high level programming language or simulation software is highly desirable.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

ENS 295 - Independent Study-Engineering Science
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly ENS 699. Students who have completed ENS 699 will not receive credit for ENS 295.
Credit Hours: 3
Department: Engineering/Physics/Tech

Environmental Sciences

ENV

ENV 101 - Environmental Science
Description: Some Saturday field trips may be required of evening students. This course offers an introduction to the basic principles of ecology, population and food production problems. The course also examines the basic principles concerning air and water pollution. Laboratory exercises are designed to measure the local air and water quality. The modes of detection and prevention of environmental pollution will be investigated and discussed. Field trips and laboratory exercises are a required part of the course. Students must
provide their own transportation to and from the field trip sites. (3 lecture, 3 laboratory hours) Lab fee applies. Formerly SCI 109. Students who have completed SCI 109 will not receive credit for ENV 104. SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Physical Sciences

ENV 102 - Environmental Resources
Prerequisites: ENV101 is recommended but not required.
Description: The course involves the investigation of current problems in our environment. The areas which will be discussed will be the problems of solid waste and various methods of its disposal; the effects of pollutants from present and future energy sources; noise pollution and the effects of radiation on people and the environment. Field trips and laboratory exercises are a required part of the course. Students must provide their own transportation to and from the field trip sites. (3 lecture, 3 laboratory hours) Lab fee applies. Formerly SCI 110. Students who have completed SCI 110 will not receive credit for ENV 102. SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Physical Sciences

ENV 103 - Environmental Mapping GPS/GIS
Description: This beginning level course is designed to introduce non-science as well as science oriented students, to the latest concepts and technologies in mapping science. The course covers the theories and concepts of Global Positioning Systems (GPS) and Geographic Information Systems (GIS). Students acquire a fundamental hands-on understanding of the technologies and systems used in the GIS field. The course will include problem solving activities through laboratory and field work. Off-campus field trips are required. Laboratory fee applies. Formerly SCI 150. Students who have completed SCI 150 will not receive credit for ENV 103. SUNY GEN ED-n/a; NCC GEN ED-LSCI. Offered: Fall, Winterim, Spring
Credit Hours: 4
Department: Physical Sciences

ENV 104 - Environmental Issues-Metropolitan
Prerequisites: Permission of Instructor.
Description: This is a limited enrollment course that runs during select intersessions for a period of 10 days. Special fees for transportation are required. This course is an intensive investigation of the current environmental problems facing society using the greater metropolitan area of New York as the focal point. Students will receive firsthand experience with current environmental problems through field trip observations and surveys. Problems dealing with the physical treatment of oil spills, the scientific formulation of environmental impact statements, and the effects of heavy industry on air quality will be some of the issues under consideration. The field trips and laboratory activities will be designed to reinforce the topics discussed during lecture. Formerly SCI 209. Students who have completed SCI 209 will not receive credit for ENV 104. SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Physical Sciences

ENV 105 - Environmental Safety & Health
Description: This course is designed for anyone interested in understanding what constitutes a safe and healthy environment. The course first discusses the methodologies that enable one to understand why and how exposure to various hazards, to which persons may be exposed to at home, outside and in the work environment, are dangerous. Along with a general understanding of the hazards, the course presents basic concepts and methods used to recognize, evaluate, control and mitigate these hazards. Some of the hazards that will be explored are food safety, herbicides, radiation, indoor/outdoor air pollution (including carbon monoxide and cleaning products), noise pollution, transportation, water quality, pesticides, dangers facing children along with both solid and hazardous waste. The concept of sustainability is introduced and becomes a central theme is discussing the mitigation of various hazards. Some of the regulations promulgated by authorities will be considered including how one can use MSDS (Safety Data Sheets) documentation to learn about the dangers presented by various materials we use in everyday life. Some of the basic course concepts as well as the fundamental skills of critical thinking and problem solving will be taught using active learning exercises. Additionally the course provides students with an opportunity to research topics of special interest to them. Formerly SCI 209. Students who have completed SCI 209 will not receive credit for ENV 105. SUNY GEN ED-n/a; NCC GEN ED-ASC, NSCI. Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Physical Sciences

Fashion Buying and Merchandising

FBM 110 - Fashion Advertising and Promotion
Description: This course introduces the various principles and methods of advertising and promotion used by producers, manufacturers, designers, and retailers in the fashion industry. Students will analyze how marketing objectives and strategies influence advertising and other forms of promotion. Students will prepare an advertising campaign while utilizing their acquired skills. SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Marketing & Retailing

FBM 120 - Introduction to the Fashion Industry
Description: This course provides an introduction to all aspects of the fashion industry: its history and current designer trends; textile and apparel production-how products are created, priced and promoted to the trade and the consumer; retail concepts; and the impact of globalization on the industry. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Summer
Credit Hours: 3
Department: Marketing & Retailing

FBM 121 - Introduction to Menswear
Description: A course introducing students to the specialized marketing practices used by domestic and foreign menswear manufacturers and distributors. Students analyze the development of lines of menswear merchandise, from design to consumer purchase. Included is an in-depth study of design, production, sales, merchandising, and promotion techniques. SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Marketing & Retailing

FBM 125 - Introduction to Import Buying
Description: Introduction to Import Buying provides students with an opportunity to learn about the rationale, problems, and opportunities of importing merchandise
COURSE DESCRIPTIONS

from various markets throughout the world. Included in the course of study will be the necessary preparatory practices, relevant import/export terminology, and governmental legislation and regulations.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Marketing & Retailing

FBM 160 - Seminar in Contemporary Fashion Buying and Merchandising
Description: Merchandise students visit the market and attend seminars with representatives from the Fashion and Merchandising field. Students apply basic principles to the solutions of typical problems in Fashion and Retailing. Additionally, the dynamic skills of human resource management are developed.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Marketing & Retailing

FBM 170 - Fashion Coordination and Publicity
Description: The course presents the coordination of the merchandising of fashion through coordination and publicity. The activities of the fashion office are examined to show influences of wholesale and retail markets on the selling and promotion of fashion.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Marketing & Retailing
Credit Hours: 3
Department: Economics and Finance
FIN 230 - Introduction to International Economics and Finance
Prerequisites: ECO 207 or permission of instructor.
Description: A study of the United States as an open economy which trades in goods, services and financial assets with other nations. Topics include the reasons nations trade, the costs and benefits of free trade, tariff and non-tariff barriers, regional trade pacts, economic and monetary integration, foreign exchange rate determination, balance of payments problems and international capital mobility, and international monetary institutions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Economics and Finance
FIN 294 - Cooperative Education Internship
Prerequisites: ECO 207 and one other ECO or FIN course and permission of the instructor.
Description: Supervised, practical experience at institutions such as commercial banks, thrift institutions, stock and bond brokerage houses, government agencies and firms employing economic practitioners that will provide students with situations in which they can apply concepts learned in previous Economics and Finance courses. Written reports demonstrating understanding of theory and its application will be an integral aspect of this course. Field experience and future career opportunities will be discussed in co-lateral, on-campus class. Prerequisite for this course is the completion of Economics 207 plus one other economics or finance course and permission of instructor. Students must have, as a minimum, a 2.50 GPA to be enrolled in this internship course. Students who have completed FIN 490 will not receive credit for FIN 294.
SUNY GEN ED-n/a; NCC GEN ED-SBS
Credit Hours: 4
Department: Economics and Finance

French

FRE

FRE 101 - Beginning French I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. This course is not intended for students of French speaking background. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Foreign Languages
FRE 102 - Beginning French II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. FRE 101 or equivalent.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Foreign Languages
FRE 201 - Intermediate French I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. FRE 101 or equivalent.
Description: First course of intermediate level. Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Foreign Languages
FRE 202 - Intermediate French II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. FRE 201 or equivalent.
Description: Second course of intermediate level. Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Spring
Credit Hours: 3
Department: Foreign Languages
FRE 225 - French for Business
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. FRE 102 or permission of the instructor.
Description: Using print, video, and electronic media, this course offers students a practical knowledge of French business terminology and procedures. It will introduce students to such topics (in French) as commercial letter writing, telephone etiquette, filling out business forms, etc. Students will also learn how to deal with cultural aspects of the international business environment. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 3
Department: Foreign Languages
FRE 261 - Advanced French 1
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. FRE 202 or equivalent.
Description: More complex grammar, enrichment of vocabulary, and improvement of proficiency in speaking, reading, writing and translation, combining traditional methodology with a multimedia approach to literature and/ or civilization. Class conducted in French. Laboratory fee applies. Laboratory attendance required. Formerly FRE 301. Students who have completed FRE 301 will not receive credit for FRE 261.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Credit Hours: 3
Department: Foreign Languages
FRE 262 - Advanced French 2
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. FRE 202 or equivalent.
Description: More complex grammar, enrichment of vocabulary, and improvement of proficiency in speaking, reading, writing and translation, combining traditional methodology with a multimedia approach to literature and/ or civilization. Class conducted in French. Laboratory fee applies. Laboratory attendance required. Formerly FRE 302. Students who have completed FRE 302 will not receive credit for FRE 262.
SUNY GEN ED-GFOL; NCC GEN ED-HUM
Credit Hours: 3
Department: Foreign Languages
FRE 295 - Independent Study-French
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. FRE 262 or permission of the instructor.
Description: More complex grammar, enrichment of vocabulary, and improvement of proficiency in speaking, reading, writing and translation, combining traditional methodology with a multimedia approach to literature and/ or civilization. Class conducted in French. Laboratory fee applies. Laboratory attendance required. Formerly FRE 302. Students who have completed FRE 302 will not receive credit for FRE 262.
SUNY GEN ED-GFOL; NCC GEN ED-HUM
Credit Hours: 3
Department: Foreign Languages
FRE 295 - Independent Study-French
have completed FRE 699 will not receive
credit for FRE 295.
Credit Hours: 3
Department: Foreign Languages

Fire Science

FRS

FRS 101 - Introduction to Fire Science
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This course is an introduction to the history and philosophy of the fire service. It reviews the career options that are available and examines the tactical and fire suppression responsibilities of the fire service. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Criminal Justice

FRS 102 - Fire Safety and Tactics
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This course focuses on the safety measures that need to be incorporated at the fire scene. It also prepares the student to understand the importance of proper fire tactics and procedures that are needed to be employed by the fire service. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Criminal Justice

FRS 201 - High Rise/ Structures and Systems
Prerequisites: Completion of RDG 001 and ENG 001.
Description: This course is an introduction to the art of firefighting in High Rise buildings. It will expose the student to the unique problems that are present in large buildings. The students will learn how to utilize the fire protection and safety features that are in High Rise buildings. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Criminal Justice

FRS 202 - Fire Protection and Detection Systems
Prerequisites: Completion of RDG 001, ENG 001, ENG 100 or ENG 101, FRS 101, FRS 201.
Description: A study of Fire Protection and Fire Detection Systems, this course provides an overview of Life Safety Systems as they are applied in stores, schools, offices, hotels, motels, hospitals, and any place where people live or work. This course emphasizes the need for fire detection systems, fire notification devices, and fire suppression systems. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Criminal Justice

FRS 203 - Hazardous Materials in the Fire Service
Prerequisites: Completion of RDG 001 and ENG 001.
Description: A study of Hazardous Materials, this course provides an overview of the laws, regulations, and standards associated with the Hazardous Materials incident response. This course emphasizes the need for: Hazardous Materials recognition and identification, information resource technology, protective actions to be taken, product control and air monitoring, terrorism awareness, and Hazardous Materials law enforcement activities. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Criminal Justice

Fashion Design

FSD

FSD 101 - Draping and Design I
Prerequisites: FSD 120 and permission of instructor through portfolio review acceptance.
Corequisites: FSD 120 and permission of instructor through portfolio review acceptance.
Description: Students learn fundamentals of draping in muslin on a dress form. Basic silhouettes as well as original designs are executed. Original sample garment is constructed. Material cost and laboratory fees apply. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Marketing & Retailing

FSD 102 - Draping and Design II
Prerequisites: FSD 101; 120.
Description: Students learn to drape intricate garments. Projects include draping the cowl, bifurcated garments, notch and shawl collar jackets and skirt variations. An original design is executed from a sketch and a sample garment is constructed. Material cost and laboratory fees apply. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Marketing & Retailing

FSD 104 - Design Studio
Prerequisites: FSD 101, FSD 102, FSD 103, FSD 120
Description: Continuation of more advanced draping projects including draping in a variety of fabrics. Original designs for knitwear, tailored jacket, boutique and term garment are draped and constructed in fabric. Material cost and laboratory fees apply. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 4
Department: Marketing & Retailing

FSD 110 - Flat Pattern Design I
Prerequisites: FSD 101, FSD 102, FSD 103, FSD 120
Description: Further studies in advanced patternmaking projects include tailored jackets, raglan and kimono sleeves, stylized armholes, bifurcated garments and torso development. Design variations on these projects are stressed. Material cost and laboratory fees apply. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 4
Department: Marketing & Retailing

FSD 111 - Flat Pattern Design II
Prerequisites: FSD 110, FSD 120
Description: Students develop the fundamentals of pattern-making using basic slopers. The bodice, skirt, sleeve and collar variations are executed to learn the variety of design options possible through flat pattern technique. Material cost and laboratory fees apply. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Marketing & Retailing

FSD 112 - Garment Construction
Description: Students learn the fundamentals of design room sewing techniques utilizing step samples to execute seams and hem finishes, bias and zipper applications, and construction details used in industry. Sample garments are developed through the use of a basic pattern. Material cost and laboratory fees apply.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Marketing & Retailing

FSD 121 - Fashion History

Description: Students explore early modes of fashion beginning with ancient civilizations from the Middle Ages through the Renaissance, Baroque, Rococo, Victorian and Edwardian periods to present day dress. This course is designed to give students an understanding of the cultural, historical, social and political effects on fashion from its respective time period.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Marketing & Retailing

FSD 122 - Fashion Design Business Practices

Prerequisites: Permission of the instructor.

Description: Technical knowledge of the design process is explored through visits to design studios where students meet with industry professionals. Students learn how to design for a target market, how to research fashion trends and source fabric and trims and learn garment production. Students learn how to prepare for an entry level position in the fashion industry.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Marketing & Retailing

FSD 135 - Design Fundamentals

Description: To interpret fashion design using art based fundamentals, such as the importance of color, anatomy, fabric rendering, fashion model proportions and movement. Assignments and learning experiences to reinforce each area. The student will discover, through exploration of fashion assignments, how to evaluate design details and proportions for Women's apparel markets. Technical flats and their importance to the process will be covered.

Average cost of supplies: $75. Laboratory fee applies. Formerly ART 135. Students who have completed ART 135 will not receive credit for FSD 135.

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

FSD 136 - Fashion Art Techniques I

Prerequisites: FSD 135 or permission of Chairperson.

Description: This course is designed to further interpret the creative process of Fashion Design. Students are encouraged to master advanced skills and search for their own individual focus of expression. Each student will be exposed to new approaches, methods and materials to further enhance his or her design experience and Fashion Design portfolio. Menswear and Children's wear will be explored as well as the Women's wear markets. Formerly ART 136. Students who have completed ART 136 will not receive credit for FSD 136. Average cost of supplies: $75. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

FSD 142 - Field Training

Prerequisites: FSD 101, FSD 102, FSD 103, FSD 104, FSD 110, FSD 111, FSD 120, ART 135, ART 136, and ART 235 or permission of instructor.

Description: Students work for appropriate fashion design firms, in a design room to enrich the theoretical concepts previously developed in the classroom.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Marketing & Retailing

FSD 235 - Fashion Art Techniques II

Prerequisites: FSD 135 and FSD 136.

Description: Students design collections by exploring the roles of research, design development, and editing in the fashion design process. Emphasis is placed on the knowledge of key fashion categories, markets and price points. This course also introduces the basics of computer-aided design specifically used in the fashion industry. Using vector based software, students learn techniques to conceptualize fashion designs and create industry-standard presentations. Formerly ART 235. Students who have completed ART 235 will not receive credit for FSD 235. Average cost of supplies: $75. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

FSD 236 - Fashion Art Techniques III

Prerequisites: ART/FSD 135, ART/FSD 136 and ART/FSD 235.

Description: To develop an awareness of broad-based market demands. To develop an awareness of market timing (seasonal and campaigns). To develop an awareness of marketable presentations. To appreciate the relationship of theme, fabrics, price range, and colors in the preparation of a portfolio. Formerly ART 236. Students who have completed ART 236 will not receive credit for FSD 236. Average cost of supplies: $75. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

GEO 101 - People and Environment

Prerequisites: Completion of RDG 001 and/or RDG 002.

Description: This course is an introduction to the basic concepts and techniques of geography. Global patterns of and interactions among climate, landforms, environmental alteration, economic, demographic and cultural phenomena are stressed.

SUNY GEN ED-GSBS; NCC GEN ED-SBS, GLNW
Offered: Summer

Credit Hours: 3

Department: History/Psych/Geography

GEO 103 - Human Geography

Prerequisites: Completion of RDG 001 and/or RDG 002.

Description: A survey of the global patterns and significance of human distributions. Demography and foodways, language and religion are the bases for identifying distinct regional cultures. Stress is placed on problems related to crowding, ethnicity, and alteration of the environment.

SUNY GEN ED-GSBS; NCC GEN ED-SBS, GLNW

Credit Hours: 3

Department: History/Psych/Geography

GEO 201 - Geography of Europe

Prerequisites: Completion of RDG 001 and/or RDG 002.

Description: An examination of the physical and cultural landscapes of Europe, their causes...
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and consequences. Attention is focused on the political, social, and economic developments over time that have created regional divisions from Iceland to the Russian border. The meaning of Europe's ethnicity and boundaries is stressed.
SUNY GEN ED-GSBS; NCC GEN ED-SBS

Credit Hours: 3
Department: History/Pol Sci/Geography

GEO 202 - Geography of Long Island
Description: Geography of Long Island explores the land and people from Brooklyn to Montauk. It examines the physical, economic, and human geography of the area with a focus on the environmental and cultural influences that have shaped the Island's landscapes, spatial interactions, and prospects.
SUNY GEN ED-n/a; NCC GEN ED-SBS

Credit Hours: 3
Department: History/Pol Sci/Geography

German

GER

GER 101 - Beginning German I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. This course is not intended for students of German speaking background. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Foreign Languages

GER 102 - Beginning German II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. GER 101 or equivalent.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Foreign Languages

GER 201 - Intermediate German I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. GER 102 or equivalent.
Description: This is the first course in the GER 201 - GER 202 sequence. Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Foreign Languages

GER 202 - Intermediate German II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. GER 201 or equivalent.
Description: This is the second course in the GER 201 - GER 202 sequence. Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Foreign Languages

GER 261 - Advanced German 1
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. GER 202 or equivalent.
Description: This is the first course in the GER 301 - GER 302 sequence. More complex grammar, enrichment of vocabulary, and improvement of proficiency in speaking, reading, writing and translation, combining traditional methodology with a multimedia approach to literature and/or civilization. Class conducted in German. Laboratory fee applies. Laboratory component required. Formerly GER 301. Students who have completed GER 301 will not receive credit for GER 261.
SUNY GEN ED-n/a; NCC GEN ED-HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Foreign Languages

GER 262 - Advanced German 2
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. GER 202 or equivalent.
Description: This is the second course in the GER 301 - GER 302 sequence. More complex grammar, enrichment of vocabulary, and improvement of proficiency in speaking, reading, writing and translation, combining traditional methodology with a multimedia approach to literature and/or civilization. Class conducted in German. Laboratory fee applies. Laboratory component required. Formerly GER 302. Students who have completed GER 302 will not receive credit for GER 262.
SUNY GEN ED-n/a; NCC GEN ED-HUM, WESH
Offered: Spring
Credit Hours: 3
Department: Foreign Languages

GER 295 - Independent Study-German
Prerequisites: Satisfactory completion of ENG 001 and RDG 002
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM. Formerly GER 699. Students who have completed GER 699 will not receive credit for GER 295.
Credit Hours: 3
Department: Foreign Languages

Geology

GLY

GLY 101 - Physical Geology
Description: This course presents principles of the study of the earth outlining how the science began in the late 1700s from natural curiosity progressing to our present knowledge of the earth as a dynamic entity. Students will study its surface features and processes and then can appreciate how patterns observed have allowed for interpretations of what is going on within the interior. Such aspects include but are not limited to earthquakes, volcanism, origin and deformation of mountain belts and ocean basins, the work of running water, glaciers and wind. In lab, students are provided a hands-on approach to the study of minerals, igneous, sedimentary and metamorphic rocks and will learn how to use a topographic map. A one-day field trip may be offered to illustrate and reinforce the concepts introduced. (3 lecture, 3 laboratory hours) Lab fee applies. Special sections of Physical Geology may be offered which cover most of the topics above but which present the popular field of gemology, allowing the students to work with professional instruments to identify a large suite of gems, both natural and synthetic. Lab fee applies. Formerly SCI 103. Students who have completed SCI 103 will not receive credit for GLY 101.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Physical Sciences

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GLY 102 - Historical Geology
Description: This is a problem-oriented approach to the study of the geologic history of the planet earth. Laboratory methods are emphasized in conjunction with the fundamental tools of geology. The origins and evolution of the continents and ocean basins are examined both from a classical perspective, and through the utilization of the theories of continental drift and plate tectonics. The histories of select areas will be examined with an emphasis placed on the techniques used in the interpretation of the ancient environments in which the rock record was formed. A one-day field trip may be offered to illustrate and reinforce the concepts introduced. (3 lecture, 3 laboratory hours) Laboratory fee applies. Formerly SCI 104. Students who have completed SCI 102 will not receive credit for GLY 102.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Spring
Credit Hours: 4
Department: Physical Sciences

GLY 104 - Field Lab Geology
Prerequisites: Permission of Instructor.
Description: This is a limited enrollment course that runs during select intersessions for a period of 10 days. Special fees for transportation are required. This is an activity-oriented approach to the study of some of the regionally accessible geologic features: their processes, history and beauty. The participants in this course will be introduced to a varied curriculum of the regional physical, historical, economic and environmental geologic phenomena. A brief sampling of some topics open to investigation are: post glacial features, coastal barrier beach problems/dynamics, the identification of major rock outcrop features, mining operations, and mineral and fossil collecting. Laboratory and field equipment will be used for the gathering of specimens and data to help develop an understanding of the gross geologic aspects of a particular location. A portion of the time needed to accomplish these goals will be spent as preparation and review on campus in the laboratory/lecture room. Field sites will be reached primarily through the use of chartered transportation. Formerly SCI 203. Students who have completed SCI 203 will not receive credit for GLY 104.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: May Special
Credit Hours: 4
Department: Physical Sciences

GLY 105 - Beaches and Coasts
Description: This course introduces the study of beach and coastal processes and environments. It examines coastal morphology such as barrier islands, spits, dunes and marshes and introduces the effects of plate tectonics, glaciers, and rivers on beaches and coasts. It also examines tidal currents, wave action, longshore currents and transport, and estuarine circulation. Human activities and the effects of man-made (anthropogenic) structures will also be emphasized. Students will also study the various methods used for study of coastal environments. Field trip(s) required. Formerly SCI 115. Students who have completed SCI 115 will not receive credit for GLY 105.
SUNY GEN ED-GLAB; NCC GEN ED-ASC, NSCI
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Physical Sciences

GLY 106 - Oceanology
Description: (Dual listed with BIO 119). This is a three-credit course and does not fulfill the laboratory science requirement needed for graduation. There will be no waivers issued under any circumstances. One field laboratory during the term. The course is designed as an overview of the structure, origin, and evolution of the world's oceans. Investigations will include analysis of abiotic factors such as sediments, coastlines, water properties, and movement. Students will take a close look at general water circulation, tides, currents, waves, and the effects of weather and climate. Further investigations will focus on biotic factors such as marine organisms, food chains, resources, and man's relationship to the sea. Formerly SCI 119. Students who have completed SCI 119 will not receive credit for GLY 106. (3 lecture hours)
SUNY GEN ED-GLAB; NCC GEN ED-NSCI
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Physical Sciences

Green Sustainable Design

GSD

GSD 130 - Green Building Materials
Description: Pre or Concurrent Requisites: GSS 128
This course will introduce students to the design, application, recycling and cost analysis of various green building materials in residential and commercial buildings and their ability to increase the energy efficiency in buildings. The selection and installation of various construction materials to include the insulation, foundations, concrete slabs on grade, the building envelope, roof, windows and doors, finished floor materials, low volatile organic compound wall finishes, and FSC wood will be discussed including harvesting and transporting.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

GSD 132 - Green Projects Case Studies
Description: Pre or Concurrent Requisites: GSS 128
This course will allow students to research and analyze various green building projects on Long Island and New York City to learn different methods used to achieve sustainable design through the use of green building practices. Building projects will be evaluated in terms of site selection, orientation, water and energy efficiency, renewable energy storage, on-site power generation, indoor air quality and the efficient use of building materials. Students will be required to visit one project site discussed, during the semester.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

GSD 200 - Wind Turbines / Solar Panels Applications
Prerequisites: GSS 126 and GSS 128
Description: Students will be introduced to the methodology by which different wind turbines function and produce electricity including power generation, wind speed, turbine size, efficiency of turbine aerodynamics, power storage potential, and payback. Comparison of different locations for wind turbine installation and structural design and construction will be discussed. Students will be introduced to the concept by which various types of solar panels (photovoltaic panels) installations produce electricity including direct and alternating current. Site selection and evaluation for installation of the solar panels on residential homes and buildings including correct sizing for building consumption, power storage potential, code compliance and government incentives will be discussed.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech
COURSE DESCRIPTIONS

GSD 202 - Water Recycling / Wastewater Treatment
Prerequisites: GSS 128
Description: This course will introduce students to the principles of design, application, and the cost analysis of water recycling and reuse methods and on-site wastewater treatment for building construction including the layout and design of building piping. Methods of water retention, filtration and reuse of rainwater through erosion control measures and green roofs, greywater, black water, infiltration systems, various plumbing fixtures, and direct and indirect strategies for on-site wastewater treatment including living machines and constructed wetlands will be discussed.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

GSD 204 - Energy Codes and Energy Analysis
Prerequisites: GSS 128
Description: This course will introduce students to the techniques used to make residential and commercial buildings more energy efficient including energy analysis software, energy audits, construction costs and maintenance costs. Methodology used during construction to maintain compliance with the Energy Conservation Construction Code of New York State, ASHRAE 90.1, Energy Standard for Buildings and ASHRAE 90.2 Energy Efficient Design of Residential Buildings.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Engineering/Physics/Tech

GSS 103 - Science of Physics I
Prerequisites: A high school course in elementary Algebra.
Description: An introductory course designed for students with a primary interest in the humanities or physical education. The course goal is to achieve a conceptual understanding of the ideas of physics. The historical and philosophical background as well as the content of physics is studied. Laboratory exercises are designed to illustrate principles of scientific experimentation while deepening the understanding of physical areas. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI
Offered: Fall, Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

GSS 104 - Science of Physics II
Prerequisites: A high school course in elementary Algebra. Note: GSS 103 is recommended, but not required for GSS 104.
Description: A conceptual course in physics dealing with waves, electricity and magnetism. 20th-century physics, the historical and philosophical background as well as the content of physics, will be discussed. Laboratory exercises are designed to illustrate principles of scientific experimentation while deepening the understanding of physical ideas. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-LSCI
Offered: Fall, Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

GSS 106 - Science of Sound and Music
Description: Fundamentals of mechanics, sound and acoustics, energy, electricity and magnetism with applications to music, musical instruments, sound systems and electronic music. The course material is developed descriptively and demonstrated experimentally. Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Engineering/Physics/Tech

GSS 108 - The Science of Light and Color
Description: This introductory course will focus on the nature of light and color. It will include not only the principles of geometric and physical optics but also general properties of waves and particles; the relation between light and matter; quantum theory and photons; light, heat, temperature and energy; and the conservation of energy. These physical principles will be applied to understanding color in art, vision, photography, holography, fiber optics, and atmospheric effects. The course will include many student investigations, in recitation as well as in lab in order to emphasize the experimental nature of science. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

GSS 111 - Science of Our World I
Description: An introductory laboratory science course designed for non-technically oriented students who desire an understanding of the capabilities, characteristics and methods of our modern technological society. Contemporary problems are discussed including such topics as air and water quality, waste management technologies, population dynamics, decision-making and principles of ecology. Laboratory techniques of simulation and modeling are developed to illustrate the topics discussed in lecture. Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Offered: Fall, Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

GSS 112 - Science of Our World II
Prerequisites: GSS 111 is recommended but not required.
Description: A continuation of GSS 111 which includes additional topics such as electrical energy, noise pollution, light and laser applications, nuclear power generation, heat and thermal pollution. Laboratory modeling and simulation are utilized to aid in the understanding of the technology and the underlying science principles. Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Credit Hours: 4
Department: Engineering/Physics/Tech

GSS 120 - Science of Modern Electronics
Description: The course is designed for non-technical students and will provide a conceptual understanding of science related to electronic devices. The course details science fundamentals using a non-mathematical approach, then focuses the presentation to
GSS 128 - Green Building Practices

Description: This course introduces students to the science governing fundamental sustainable design and green building practices and their implementation. Topics include building site selection, building orientation, water and energy efficiency, renewable energy and storage, on-site power generation, improvement of indoor air quality including air quality and efficient use of building materials. SUNY GEN ED-n/a; NCC GEN ED-NSCI

Offered: Fall, Spring

Credit Hours: 4

Department: Engineering/Physics/Tech

GSS 126 - Forensic Technology

Description: The course introduces the various types of physical evidence commonly encountered at crime scenes (e.g., fingerprints, hairs, fibers, drugs, glass, etc.), and discusses comparison and identification techniques (i.e., optical examination/comparison, instrumental analysis, and various chemical processes) used for the analysis of such physical evidence. It examines the various methods used for analysis of scientific evidence in the field of forensic technology. Students learn the technology used to interpret the science and its applications. SUNY GEN ED-n/a; NCC GEN ED-NSCI

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Engineering/Physics/Tech

GSS 122 - Science of Energy

Description: This introductory course covers the scientific principles and technological innovations related to Energy resources. The study of mechanics, electricity, magnetism and thermodynamics pertinent to energy are explained. Students develop an appreciation of energy use in the contemporary world by examining alternate energy systems such as solar, wind, photovoltaic, hydro, biomass, the ocean, renewable alternative energy sources and environmental sustainability processes. SUNY GEN ED-n/a; NCC GEN ED-NSCI

Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Engineering/Physics/Tech

Healthcare Administration

HCA

HCA 180 - Introduction to Healthcare Administration

Prerequisites: None.

Description: This course provides students entering the healthcare administration field with an introduction to the organization and delivery of healthcare in the United States. The management of various healthcare enterprises including hospitals and health systems, physician practices and clinics, and public health organizations will be reviewed. Changes within the healthcare industry and the responsibilities, function, and role of healthcare administrators will be discussed. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Administrative Business Tech

HCA 182 - Healthcare Resource Management & Strategic Planning

Prerequisites: HCA 180.

Description: This course prepares students with knowledge of strategic principles and planning skills required to address the intricacies of the contemporary healthcare system. The continued evolution of healthcare reform and its effect on healthcare market structure and business models is reviewed. The strategic challenges commonly faced by healthcare administrators including the shift to value-based care and reimbursement models, issues of capitation, the formation of accountable care relationships, and competitive positioning to the dissolution of alliances and vertical integration will be reviewed. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Administrative Business Tech

HCA 184 - Healthcare Revenue Cycle

Prerequisites: HCA 180 (with a grade of C or better) or permission of the Chairperson.

Description: This course reviews the variety of ways in which healthcare is reimbursed as it pertains to the financial analysis and decision making required by healthcare administrators. Changes to reimbursement methodologies and payment systems, including Medicare, regulation of managed care, public policy and formation of integrated delivery systems is reviewed. Responsibilities and issues faced by healthcare administrators regarding delivering and financing healthcare is discussed. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Administrative Business Tech

HCA 187 - Topics in Public Health

Prerequisites: None.

Description: Public health addresses broad issues that can affect the health and well-being of individuals, families, communities, populations, and societies. This course is an introduction to public health which explores topics including population health management, public health administration, health planning and promotion, research, epidemiology, the public health workforce, environmental and occupational health, public health education and public health emergency preparedness and response. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Administrative Business Tech

HCA 280 - Medicolegal Aspects of Healthcare Administration

Prerequisites: HCA 180 (with a grade of C or better).

Description: This course is an overview of the legal and ethical issues faced by healthcare administrators. Healthcare ethics, medical staff organization, physician liability, patient consent, reporting requirements, end-of-life issues, and patient rights and responsibilities as they impact the duty of healthcare administrators will be reviewed. The practical application of ethics in a healthcare setting, including review of case studies as well as real-world events related to healthcare administration will be discussed. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Administrative Business Tech

HCA 288 - Healthcare Administration Internship

Prerequisites: HCA 180, HCA 182, HCA 184, HCA 187, HCA 280 (with a grade of C or better in each course).

Description: Concurrent Requisite: HIT 166 (with a grade of C or better)

This course is a supervised internship experience that provides students with the opportunity to perform directed projects common in healthcare administrative setting. Students are introduced to healthcare administration duties through observation, study, and work. Weekly seminars reinforce work experience. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3
HEB 101 - Beginning Hebrew I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. This course is not intended for students of Hebrew speaking background. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW
Offered: Fall, Spring
Credit Hours: 3
Department: Foreign Languages

HEB 102 - Beginning Hebrew II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. HEB 101 or equivalent.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW
Offered: Fall, Spring
Credit Hours: 3
Department: Foreign Languages

HEB 201 - Intermediate Hebrew I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. HEB 102 or equivalent.
Description: Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW
Offered: Fall
Credit Hours: 3
Department: Foreign Languages

HEB 202 - Intermediate Hebrew II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. HEB 201 or equivalent.
Description: Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW
Offered: Spring
Credit Hours: 3
Department: Foreign Languages

HEB 295 - Independent Study-Hebrew
Prerequisites: Satisfactory completion of ENG 001 and RDG 002
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM. Formerly HEB 699. Students who have completed HEB 699 will not receive credit for HEB 295.
Credit Hours: 3
Department: Foreign Languages

HED 200 - Concepts of Healthful Living and Stress Management
Description: Students receiving credit for PED 200 will not receive credit for HED 200
This comprehensive survey course explores healthy behaviors, emphasizing wellness and stress management. Taking into consideration one's entire life style through the "whole person approach," connections among the mind, body and spirit are examined using information culled from advanced research in the interdisciplinary sciences. Topics include: psychosocial stressors and their relationship to acute/chronic diseases, stress management, coping strategies, death and dying, violence and victimization, and mental health; nutrition, fitness and weight management, sexual relationships, sexually transmitted infections, contraception, pregnancy and childbirth; use/misuse of alcohol, drugs and tobacco and other compulsivities.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Health/Physical Ed/Recreation

HED 205 - Consumer Health Care and Protection
Description: Students receiving credit for PED 205 will not receive credit for HED 205
A course intended to keep pace with today's unprecedented consumer interests, particularly in matters of health services and products. The availability and quality of such care are explored in the following areas: the health consumer, protecting one's rights in the marketplace, the unique role of the college student as a health consumer, the patient and doctor, the national medical care crisis, kinds of health insurance, getting more for one's health dollars, the role of health agencies, health spas and clubs, diet clubs and fad's, popular remedies for common ailments, and health career opportunities.
SUNY GEN ED-n/a; NCC GEN ED-HED
Offered: Fall
Credit Hours: 3
Department: Health/Physical Ed/Recreation

HED 231 - Death Education: A Health Perspective
Description: Students receiving credit for PED 231 will not receive credit for HED 231
The course enables students to understand and cope with death as part of the life cycle. From an interdisciplinary and historical perspective, the course explores how many
different cultures treat death and dying as well as examines biomedical ethics (euthanasia, organ donation, wills and trusts). Emphasizing the psychological adjustments to loss, topics include the meaning of death, stages of dying, bereavement and grief processes and a variety of religious attitudes toward suicide, funeral rituals and death in general.

SUNY GEN ED-n/a; NCC GEN ED-PLDI
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Health/Physical Ed/Recreation

HED 251 - Human Sexuality

Description: Students receiving credit for PED 251 will not receive credit for HED 251. Taught in cross-cultural context, this interdisciplinary course examines the diversity of family life and human sexuality. Drawing from the social and biological sciences, students explore a variety of attitudes and personal beliefs. Topics include the history of human sexuality, sexual reproduction, gender related sexual health issues, gender roles/identity and sexual orientation. Sexual communication, intimacy, behaviors, coupling, victimization, dysfunctions and therapy are also addressed. Audiovisual material of a sensitive nature may be used.

SUNY GEN ED-n/a; NCC GEN ED-PLDI
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Health/Physical Ed/Recreation

HED 271 - Alcoholism, Addictions and Abusive Behaviors

Description: Students receiving credit for PED 271 will not receive credit for HED 271. This course is designed to explore why people develop addictions and dependencies. Using alcohol use, abuse and alcoholism as primary models, students discuss addictive behavior as manifested in such areas as eating disorders, gambling, tobacco and substance use. The course analyzes the epidemiology of alcohol use in American culture and its effects on society. It also considers the intra-psychic addictive syndrome on diverse populations that reflect issues of race, ethnicity, gender and sexual orientation.

SUNY GEN ED-n/a; NCC GEN ED-PLDI
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Health/Physical Ed/Recreation

HED 272 - Alcoholism and Addictions: Modalities, Prevention and Treatment

Prerequisites: HED 271.

Description: Students receiving credit for PED 272 will not receive credit for HED 272. This course focuses on assessment, diagnosis, and treatment of addictive behaviors. Emphasis on special populations such as college students, adolescents, disabled and incarcerated individuals and ethnic minorities are examined. Treatment techniques and prevention strategies are explored.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Health/Physical Ed/Recreation

HED 290 - CPR Basic Life Support Coed

Description: (Dual listed with AHS 100)
This course is designed to teach Cardiopulmonary Resuscitation (CPR) and Basic Life Support to individuals entering the various service professions (Police, Fire), health professions and professions who are activity-oriented (recreation, lifeguards), etc. Basic procedures are covered in full, including techniques of advanced life support. Successful completion of the course meets all requirements for the American Red Cross and Heart Association Certification. It cannot be used to fulfill Physical Education course requirement for graduation. Formerly PED 640. Students who have completed PED 640 or PED 290 will not receive credit for HED 290.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 1

Department: Health/Physical Ed/Recreation

HED 291 - Personal Health for Physical Education and Health Majors

Description: Identification and evaluation of sound health principles, personally and professionally. The design of this course provides examination and exploration of health issues for daily living, as well as pedagogical techniques for future health and Physical Education teachers. Formerly PED 291. Students who have completed PED 291 will not receive credit for HED 291.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring

Credit Hours: 3

Department: Health/Physical Ed/Recreation

HED 292 - Safety and First Aid

Description: An analysis of problems related to safety and first aid, with special emphasis on their application to Physical Education. A study of the immediate care of injuries and their prevention. The student will be required to participate in practical examination of skills, including a pool session which involves neck and back spinal immobilization. Successful completion of this course will certify the student in the American Red Cross - Responding to Emergencies and Adult CPR. It cannot be used to fulfill Physical Education course requirement for graduation. Formerly PED 292. Students who have completed PED 292 will not receive credit for HED 292.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Health/Physical Ed/Recreation

HED 293 - Community Health

Description: Students receiving credit for PED 293 will not receive credit for HED 293. A course designed to acquaint the major student in Health Education with the multiple definitions of health, principles of health maintenance, structure of the health care delivery system, basic epidemiological tools, elementary health counseling techniques, as well as a broad overview of major health problems that face the community. The course is also designed to familiarize the student with the agencies and facilities that are currently operating to solve health problems.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 3

Department: Health/Physical Ed/Recreation

History

HIS

HIS 101 - History of Western Civilization through the 18th Century

Prerequisites: Completion of RDG 001 and/or RDG 002.

Description: The course begins with a brief survey of the foundations of modern Western Civilization in the ancient and medieval world. The rise of individualism, humanism and science, the growth of the state, the emergence of the middle class and the beginnings of the age of liberal revolutions are discussed as ingredients in the birth of the modern world.

SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: History/Psychology

HIS 102 - History of Western Civilization since the 18th Century

Prerequisites: Completion of RDG 001 and/or RDG 002.

Description: The second half of Western Civilization considers the historical forces and events that shaped the world in the 19th and 20th centuries. The course examines revolutions, nationalism, industrialization, imperialism, war, and the clash of Nazism, fascism, communism, and democracy. Other major components consist of the decline of colonialism, the atomic age, the Cold War,
COURSE DESCRIPTIONS

contemporary world conflicts, and prospects for the future.
SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 103 - History of the United States through the Civil War
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: The course covers the broad spectrum of American life through a survey of American social, cultural and political events. Included are such topics as the rise of colonial America; the American Revolution; the early national period of Washington, Adams, Jefferson and Hamilton; the westward movement; and the antislavery movement which climaxed with the bitter struggle of the Civil War.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 104 - History of the United States since the Civil War
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This second half of the American history sequence picks up the American story with the era of Reconstruction and moves on to mark the growth of industrial America, the expanding frontier with its Indian wars, the Progressive Era, the expansion of American foreign interests, the Great Depression, and the rise and image of modern America. Designed to reveal this nation's colorful and remarkable past in the modern era, the course seeks to examine the impact recent events have had on the creation of modern American society, culture, politics and world affairs.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 105 - The World, 1945-Present
Prerequisites: Completion of RDG 001
Description: With its focus on the present, this course is designed to give students an understanding of the world they live in, how it was born out of the past and how it is creating the future. Recent international conflicts, social change and expectations of the future are explored in the framework of the nuclear age.
SUNY GEN ED-GSBS; NCC GEN ED-GLNW, SBS, HISD
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 106 - U.S.A., 1945-Present
Prerequisites: Completion of RDG 001
Description: This course deals with America in the nuclear age, its recovery from World War II and its growing domination of the Western world. The course covers the dramatic changes in American society at home and its entanglements abroad in an effort to contain Russian and Chinese power. Domestic transformation of the Kennedy-Johnson period, the upheaval of Watergate, the Reagan "revolution", and contemporary issues in American life conclude the course.
SUNY GEN ED-GAMH, GSBS; NCC GEN ED-SBS, WESH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 107 - A Pictorial Approach to European History Since 1500
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course offers a unique approach to European history using media as a major part of each class period. Slides and films of great masterpieces are used to illuminate selected historical periods giving the class discussions visual impact not available in ordinary history presentations.
SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 108 - Honors History: Western Roots through the 18th Century
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course traces the roots of Western Civilization beginning with a survey of the Judeo-Christian and Greco-Roman traditions and concluding with the Age of Enlightenment and revolutionary upheavals through 1789 that helped usher in the modern world. The course is designed for honors students only and includes extensive reading in primary and secondary source materials.
SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, GLNW
Offered: Fall, Spring
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 109 - Honors History: Western Roots since the 18th Century
Prerequisites: Completion of RDG 001 and/or RDG 002 and by invitation.
Description: This second half of Honors Western Civilization studies the development of the Western world from 1789 to the present. The course considers that great events and forces that have shaped our Atlantic world: revolutions, nationalism, industrialization, imperialism, war, and conflict between fascism, communism, and democracy to the present day. This course is designed for honors students only and includes extensive reading in primary and secondary source materials.
SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 110 - History of Contemporary Africa
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: (Dual listed with AFR 143) The study of African independence movements; discussion of the problems of post-independent Africa, such as nation building, strategies of development, education, pan-Africanism; and problems of democracy in southern Africa.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW
Offered: Fall
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 124 - Women in the Western World
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A focus on the role of women as a significant force in the development of the Western world. The course examines, in historical context, the factors which have determined women's place over the centuries, compares the situation of women in capitalist, socialist, and fascist societies, and surveys contemporary European feminist movements.
SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, GLNW
Offered: Fall, Spring
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 125 - The Role of Women in American History
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: Women's history offers an important new dimension to the study of American society. This course examines the vital role ordinary women have played in American life for 350 years, the experiences
and achievements of women, and the successes and failures of the feminist movements.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 130 - Race and Ethnicity in America
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: An exploration of American history through the eyes, ears and emotions of its immigrants - the experiences of Italians and Jews, Irish and Germans, Chinese and Mexicans, and others. Common problems of adjustment, acceptance and assimilation faced by these groups teach us about America. Guest speakers, films and tapes are utilized throughout the course to probe the meaning and bring to life the history of ethnic groups in America.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, PLDI
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 136 - History of Latinos in the U.S.
Prerequisites: Completion of RDG 001
Description: This course explores major social, economic and political developments in the history of the various Latino communities of the United States from the mid-19th century to the present. Attention is given to such long-term processes as community formation, Latino immigration to the U.S., religion, and group identity.
SUNY GEN ED-n/a; NCC GEN ED-SBS, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 137 - Native Americans
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A survey of Native peoples in United States history and popular culture, from contact to the present. Emphasis centers on comparing and contrasting the different Native American groups in the United States; their respective responses over time to the influx of peoples from outside the western hemisphere, and the developing relationship between these groups and what became the dominant political and social U.S. institutions and people. There will be a special emphasis on indigenous peoples of Long Island particularly and New York generally. In addition, this course will look at the ever-changing images and/or stereotypes of Native Americans in U.S. culture.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 140 - Nassau County: History and Government
Prerequisites: Completion of RDG 001
Description: (Dual listed with POL 111) A review of the development of what is now Nassau County from pre-Colonial times to the present day. Emphasis is placed upon the governmental-administrative structure of the county and the major problems facing urban-suburban communities. Field trips and guest speakers are utilized to complement class work.
SUNY GEN ED-GSBS; NCC GEN ED-SBS
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 150 - History of the American Labor Movement
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course explores the dramatic and inspiring history of working men and women as they struggle to improve life for themselves and their children. Students trace the history of the American labor movement from Colonial times to the present. Emphasis is placed on the theory, strategy, and goals of the organized labor movement. Students are also introduced to the concept and techniques of collective bargaining. Films, speakers, and resources on Long Island are utilized to complement class discussion.
SUNY GEN ED-GAMH, GSBS; NCC GEN ED-SBS
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 161 - World History: Antiquity to 1500
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course examines major developments in world history, from the emergence of the earliest civilizations to about 1500 C.E. How various civilizations conceptualized and responded to issues such as the nature of god(s), human nature, gender roles and relationships, and the environment are explored. Technological developments and economic, political, and social structures are also studied.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-GLNW, SBS, PLDI
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 162 - World History: 1500 to the Present
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course examines important developments and interactions in world history from the age of exploration and European expansion to the present. Major formative elements of the modern world such as industrialization, democracy, imperialism, nationalism, secularism, feminism, socialism, fascism, human rights, and technological developments are explored.
SUNY GEN ED-GSBS; NCC GEN ED-GLNW, SBS, PLDI
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 165 - Religion in World History
Prerequisites: Completion of ENG 001, RDG 001
Description: This course examines the emergence and historical development of religious ideas and practices and their impact on world history from the ancient world through the beginning of the 21st century. Religions of Asia, South Asia, Africa, the Americas, The Middle East, the Pacific, and “new” religions are all examined in their historical contexts, as well as the historical relationships and interactions among the great world religions.
SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI, SBS
Offered: Fall, Spring
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 176 - African-American History I
Prerequisites: Completion of RDG 001 (Dual Listed with AFR 140)
Description: A survey of the African-American experience in the New World, from the advent of the African slave trade to the Civil War and the Reconstruction Era. Emphasis centers on the African background, the cultural heritage of the African-Americans, slavery and a legacy of racial discrimination.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 177 - African American History II
Description: (Dual listed with AFR 141)
A survey of the African American experience since the Reconstruction Era to the post World War II period and the current scene. Emphasis
COURSE DESCRIPTIONS

centers on the Civil Rights Movement, the Harlem Renaissance, the Black Revolution and the philosophies of Dr. Martin Luther King, Jr., Malcolm X, Jesse Jackson, Angela Davis, Cynthia Boston, Willie McGee and the "exiled" leaders of the contemporary scene.

SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 178 - History of the Black Woman
Prerequisites: Completion of RDG 001
Description: (Dual listed with AFR 200) An historical examination of the image, role and treatment of the Black Woman in America from the Age of Slavery to the advent of the feminist movement and the contemporary scene. Emphasis centers on the burdens of racism, sexism, single-parent motherhood, welfare, Black female and male relationships, sterilization, the Black family and the issues of Black Women's liberation, women's lib and the ERA amendment.
SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 180 - Health, Disease and Western History
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: In all eras disease has been a shaper of human affairs. It has affected the life of empires and the outcome of wars, helped alter the economy and the structure of society, and evoked outbursts of mass unrest. It continues to challenge the development of civilization. The course examines the impact of disease on Western history; the efforts of Western society to deal with disease through magic, religion, and science; and the role of disease as the theme of art, literature and popular culture.
SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 190 - The History of Sports in America
Prerequisites: Completion of RDG 001
Description: This course examines the evolution of sports in the context of American history. From the colonial era to the present, sports have been a mirror of the larger history of the nation. The course traces the growth of sports, both amateur & professional with an emphasis on the refining rules & organization, the role of the media & the changes that have taken place within the sporting world.
SUNY GEN ED-n/a; NCC GEN ED-SBS
Offered: Summer
Credit Hours: 3
Department: History/Psychology

HIS 205 - The Ancient World
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: The peoples of ancient Mediterranean, African, Near Eastern, Asian and Celtic worlds and pre-contact America are the subjects of this course. Each civilization, with an emphasis on their art and literature, manners and morals, scientific and technological inventions, political, military, and economic institutions, triumphs and failures, is considered first in its own context, and then with reference to how, when, and with what consequences ancient civilizations affected one another.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 206 - The Medieval World
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: The course focuses on the new civilization which emerged from the ruins of the Greco-Roman world. The role of the Medieval church, feudalism, chivalry, and witchcraft in shaping this seminal period is explored together with the medieval world's contribution to the making of modern day political, economic and cultural traditions.
SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 207 - Renaissance and Reformation Europe
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course covers the period in European history from 1500 to 1763, one in which the values, life-styles and power structure of the Middle Ages were consistently challenged by new forces which were ultimately victorious and laid the groundwork for the modern era. More than just a period of transition, the epoch includes some of the more creative and turbulent chapters in the history of European civilization.
SUNY GEN ED-n/a; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Psychology

HIS 209 - Twentieth-Century Europe
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A study of Europe in the 20th century, beginning with the foundations in 1870 and continuing to the present. The course examines the former world dominance of Europe and traces developments leading to its present status in the world community. Topics studied intensively include the origins of World War I, the impact of the Russian Revolution, the rise of fascism, and World War II, as well as the significant cultural, social and intellectual trends that shaped this epoch in European history.
SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 210 - The Modern Middle East
Prerequisites: A prior history course or permission of instructor, completion of RDG 001 and/or RDG 002.
Description: This course examines the multifaceted history of the Middle East, broadly construed as a geographic and cultural region, since the 18th century. Topics include religious and cultural traditions and varieties, gender issues, and the challenges and choices facing Middle Eastern states and societies in recent years. Regional conflicts, religious radicalism, and terrorism will be addressed.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 212 - History of the Islamic World
Prerequisites: English 101 or one history course or permission of the instructor. Completion of RDG 001 and/or RDG 002.
Description: This course examines the early and modern history of Islamic societies and of Muslims in local and global contexts, including Africa, Central and South Asia, the Pacific, and the West. The course addresses topics such as politics and statecraft; religious and cultural traditions and varieties; gender roles; and the challenges and choices that Muslim societies and individuals have faced in medieval, early modern, and modern times.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 219 - Colonial Latin America
Prerequisites: Completion of RDG 001
Description: This course covers the period in Latin American history, one in which the values, life-styles and power structure of the Middle Ages were consistently challenged by new forces which were ultimately victorious and laid the groundwork for the modern era. More than just a period of transition, the epoch includes some of the more creative and turbulent chapters in the history of European civilization.
SUNY GEN ED-n/a; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Psychology

Nassau Community College: https://collegecatalog.ncc.edu/current
COURSE DESCRIPTIONS

Prerequisites: Completion of RDG 001
Description: A survey history of Colonial Latin America, from the Age of Discovery and Conquest to the Independence Movement. Emphasis centers on the development and formation of Colonial Latin America, its political institutions and social problems.
SUNY GEN ED- GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 228 - Modern China
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A survey of Chinese history & culture in the 20th Century. The course reviews the impact of the West on China in the modern era. Emphasis is placed on the Revolution of 1911, which ushered in the Republican era, the rise of Chinese Communism, & the present two-China situation.
SUNY GEN ED- GSBS, GOWC; NCC GEN ED-SBS, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 220 - Modern Latin America
Prerequisites: Completion of RDG 001
Description: A history of Latin America in the 19th and 20th centuries dealing with the broad comparative features of the region's political, economic and social development. More specific analyses of national case studies are included together with a consideration of the frequent revolutions which have swept the nations of Latin America in the modern era.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 230 - Modern Imperialism
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course examines Western Empire building and the struggle of colonized societies to gain independence. It begins by exploring the roots of imperialism in the 16th through the 18th centuries and continues with analysis of European imperialism in Africa and Asia in the 19th century. Motivations for imperial conquest, methods of rule, effects on the colonized societies and the United States expansionism in the 19th and 20th centuries are considered. This course also analyzes gender, race and the anti-colonial movements of the 20th century. It concludes with analysis of neocolonialism in the aftermath of the Cold War.
SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, PLDI, WESH, GLNW
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 232 - The History of the Cold War
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: The course deals with one of the most significant areas of contemporary international conflict and tension: the mutual relationships among the United States, Russia, and China. Students probe the origins and development of the Cold War and peace in the 20th century. SUNY GEN ED-GSBS; NCC GEN ED-SBS, WESH
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 235 - Russia Since Peter The Great
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course tries to make Russia less puzzling by examining the cultural, social and political elements which have gone into the making of modern Russia. In the process certain broad themes are considered, including Russia's place in Western tradition and the relationship between contemporary society and Russia's pre-revolutionary past.
SUNY GEN ED-GSBS; NCC GEN ED- n/a
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 236 - History of Israel
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: (Formerly HIS 135) An interdisciplinary approach to the history of the modern state of Israel and the Jewish historical experience. Firsthand experiences and films are used in examination of the life and culture of modern Israel, including an in-depth study of the Arab-Jewish conflict.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 240 - Revolutions in the Modern World
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A comparative study of revolutionary movements and ideologies from the time of Cromwell to the present, with an emphasis on the modern era. It deals with the causes and consequences of revolutions in their historical contexts, and discusses alternatives to violent overthrows of government as well as counter-revolutionary movements, past and present. The English, American, French, Russian, Chinese and Cuban revolutions are among those examined.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 234 - History of Ireland
Prerequisites: Completion of RDG 001.
Description: (Formerly HIS 170)
This course focuses on Celtic history, foreign invasions, early modern Ireland before emancipation, the great famine, land reform, home rule, the Easter uprising, the Irish Free State, the independent republic, Northern Ireland, the present discord and the Dublin-London-Belfast-American connection.
SUNY GEN ED-GSBS; NCC GEN ED-SBS, WESH
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 221 - The Afro-Caribbean World
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: (DUAL Listed with AFR 203) An historical presentation of the African experience in the Caribbean nations of Cuba, Bahamas, Haiti, Dominican Republic, Jamaica, Puerto Rico, and the nations of the Lesser Antilles, Trinidad and Tobago. Emphasis centers on the impact and effects of African slavery in the Caribbean, African contributions to the region, its cultural roots in Caribbean society, and the contemporary problems in the Caribbean today.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 223 - The History of the Cold War
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: The course deals with one of the most significant areas of contemporary international conflict and tension: the mutual relationships among the United States, Russia, and China. Students probe the origins and development of the Cold War and peace in the 20th century. SUNY GEN ED-GSBS; NCC GEN ED-SBS, WESH
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 240 - Revolutions in the Modern World
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A comparative study of revolutionary movements and ideologies from the time of Cromwell to the present, with an emphasis on the modern era. It deals with the causes and consequences of revolutions in their historical contexts, and discusses alternatives to violent overthrows of government as well as counter-revolutionary movements, past and present. The English, American, French, Russian, Chinese and Cuban revolutions are among those examined.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 234 - History of Ireland
Prerequisites: Completion of RDG 001.
Description: (Formerly HIS 170)
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SUNY GEN ED-GSBS; NCC GEN ED-SBS, WESH
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 228 - Modern China
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A survey of Chinese history & culture in the 20th Century. The course reviews the impact of the West on China in the modern era. Emphasis is placed on the Revolution of 1911, which ushered in the Republican era, the rise of Chinese Communism, & the present two-China situation.
SUNY GEN ED- GSBS, GOWC; NCC GEN ED-SBS, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 220 - Modern Latin America
Prerequisites: Completion of RDG 001
Description: A history of Latin America in the 19th and 20th centuries dealing with the broad comparative features of the region's political, economic and social development. More specific analyses of national case studies are included together with a consideration of the frequent revolutions which have swept the nations of Latin America in the modern era.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 230 - Modern Imperialism
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course examines Western Empire building and the struggle of colonized societies to gain independence. It begins by exploring the roots of imperialism in the 16th through the 18th centuries and continues with analysis of European imperialism in Africa and Asia in the 19th century. Motivations for imperial conquest, methods of rule, effects on the colonized societies and the United States expansionism in the 19th and 20th centuries are considered. This course also analyzes gender, race and the anti-colonial movements of the 20th century. It concludes with analysis of neocolonialism in the aftermath of the Cold War.
SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, PLDI, WESH, GLNW
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 232 - The History of the Cold War
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: The course deals with one of the most significant areas of contemporary international conflict and tension: the mutual relationships among the United States, Russia, and China. Students probe the origins and development of the Cold War and peace in the 20th century. SUNY GEN ED-GSBS; NCC GEN ED-SBS, WESH
Offered: Summer
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 235 - Russia Since Peter The Great
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: This course tries to make Russia less puzzling by examining the cultural, social and political elements which have gone into the making of modern Russia. In the process certain broad themes are considered, including Russia's place in Western tradition and the relationship between contemporary society and Russia's pre-revolutionary past.
SUNY GEN ED-GSBS; NCC GEN ED- n/a
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 236 - History of Israel
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: (Formerly HIS 135) An interdisciplinary approach to the history of the modern state of Israel and the Jewish historical experience. Firsthand experiences and films are used in examination of the life and culture of modern Israel, including an in-depth study of the Arab-Jewish conflict.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, PLDI
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 240 - Revolutions in the Modern World
Prerequisites: Completion of RDG 001 and/or RDG 002.
Description: A comparative study of revolutionary movements and ideologies from the time of Cromwell to the present, with an emphasis on the modern era. It deals with the causes and consequences of revolutions in their historical contexts, and discusses alternatives to violent overthrows of government as well as counter-revolutionary movements, past and present. The English, American, French, Russian, Chinese and Cuban revolutions are among those examined.
SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, WESH
Credit Hours: 3
Department: History/Pol Sci/Geography

HIS 234 - History of Ireland
Prerequisites: Completion of RDG 001.
Description: (Formerly HIS 170)
HIS 250 - Era of the American Revolution

Prerequisites: ENG 100 or ENG 101 or permission of instructor, completion of RDG 001 and/or RDG 002.

Description: An in-depth view of the American struggle for independence, removing much of the mythology that surrounds this classic confrontation between colonies and mother country. Beginning with the French and Indian War, the course examines the crises leading to revolution, the military aspects of the war itself, and ends with a look at the new nation in its infancy. Particular attention is focused on both British and Colonial views toward independence, the conspiratorial activities of the radical revolutionary minority, and the roles played by various individuals on all sides of the struggle in the War for Independence.

SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS

Credit Hours: 3

Department: History/Pol Sci/Geography

HIS 255 - The Civil War and Reconstruction

Prerequisites: Completion of RDG 001 and/or RDG 002/

Description: The era of the Civil War and Reconstruction was the most traumatic in American history. The nation underwent an orgy of bloodshed and hatred, the aftereffects of which can still be seen to this day. This course examines the events and personalities of that turbulent era during which the nation was forged.

SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS

Credit Hours: 3

Department: History/Pol Sci/Geography

HIS 260 - Twentieth Century Genocide

Prerequisites: HIS 102, HIS 209, or permission of instructor, completion of RDG 001 and/or RDG 002.

Description: The subject matter of this course will be the history of ethnic/religious genocide during the 20th century. The topics covered will include the Armenian massacre of 1915-1918, the Jewish Holocaust (Final Solution) of World War II, as well as some contemporary examples of genocide, i.e. Bosnia, Rwanda, the Caucasus, etc. The prime emphasis will be on the Holocaust, with a focus on the lessons learned from this historical experience.

SUNY GEN ED-GSBS; NCC GEN ED-SBS, PLDI

Credit Hours: 3

Department: History/Pol Sci/Geography

HIS 270 - Racism in the Modern World

Prerequisites: One prior history course, either HIS 101, HIS 102, HIS 103, HIS 104, HIS 105 or HIS 106, completion of RDG 001 and/or RDG 002.

Description: (Students who require ENG 001 or RDG 001 cannot take this course until these requirements are met.) This course examines the origins and development of the national forces and institutions that have shaped racial ideas and practices over the last 500 years. Through a variety of historical materials, students will explore the comparative aspects and dimensions of racism, from early European overseas conquests to contemporary struggles for national political power.

SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, PLDI

Credit Hours: 3

Department: History/Pol Sci/Geography

HIS 280 - The Atlantic World 1450-1820

Prerequisites: Completion of RDG 001 and/or RDG 002

Description: The European navigations of the fifteenth century permanently connected four major continents and their distinct peoples many of whom before this time had no or only sporadic contact with one another. From 1450 onwards the Atlantic Oceans served as a “corridor” through which peoples, ideas, and things were exchanged and transformed. This course explores the Atlantic world created by this corridor by examining several themes: maritime exploration, European-Indian-African interactions, the rise of European imperialism in the Americas, the creation of Atlantic American communities in the Americas, the growth of an Atlantic economy, and rebellion and revolution in the Atlantic world.

SUNY GEN ED-n/a; NCC GEN ED-SBS, PLDI

Offered: Summer

Credit Hours: 3

Department: History/Pol Sci/Geography

HIS 285 - Independent Study-History

Description: SUNY GEN ED-n/a; Formerly HIS 699. Students who have completed HIS 699 will not receive credit for HIS 285.

Credit Hours: 3

Department: History/Pol Sci/Geography

HIT 101 - Introduction to Health Information Technology

Description: This course examines the concept of using health data and presenting it as usable information. Verification of data, data timeliness, data accuracy and data appropriateness, various data sets and data sources are discussed. Governmental requirements for data reporting are reviewed. The basics of medical record administration, including format and documentation compliance are also discussed. Students review and analyze actual medical records, Laboratory fee applies. Students who received credit for HIT 250 Health Care Data Structure and Delivery Systems will not receive credit for HIT 101.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Administrative Business Tech

HIT 151 - Medical Terminology

Description: This course will prepare students for careers in medical administration by reviewing the terminology associated with many areas of medicine such as cardiovascular, digestive, central nervous, genitourinary, respiratory systems, etc. Emphasis is placed on etymology of words. (Students receiving credit for OPT 151 will not receive credit for HIT 151.)

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Fall, Spring, Summer

Credit Hours: 3
HIT 154 - Computer Software Applications in Health Care

Description: This course covers an overview of commonly available software tools used in health care, including introduction to encoding tools and computer assisted coding software used in health data processing. It includes an introduction to the electronic health record (EHR) process and the various health information systems currently used in health care delivery in the US. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 156 - Medical Coding CPT

Prerequisites: HIT 151 and AHS 225 or AHS 131 or BIO 101 (with a grade of C or better) or permission of the Chairperson.
Description: Corequisites: HIT 151 and AHS 225 or AHS 131 or BIO 101 or permission of the Chairperson. Cannot be taken concurrently with HIT 170.

This course provides instruction in the classification and coding of all ambulatory care and outpatient care encounters. The students will become familiarized with all aspects of CPT Coding and HCPCS Level II Coding. The course covers interpreting medical chart documentation and operative reports to accurately assign CPT codes for maximum physician reimbursement. Students will use popular coding software. Laboratory fee applies. (Students receiving credit for OFT 156 will not receive credit for HIT 156.)

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 158 - Reimbursement Methodologies

Prerequisites: HIT 156 and HIT 159 (with a grade of C or better in both courses)
Description: Corequisites: HIT 159 or permission of the Chairperson
This course is designed to familiarize students with the basics of medical billing insurance reimbursement, and medical record documentation. The various types of prospective payment systems (PPS) used in health care reimbursement are discussed. Students complete billing, insurance and medical documentation forms, both manually and electronically. The course includes the study of the impact of federal legislation on health care reimbursement and an overview of the Federal Register. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 160 - Introduction to Healthcare Data Analytics

Description: Concurrent Requisite: HIT 151, HIT 154 (with a grade of C or better in both courses).
This course introduces the role of healthcare data analyst and healthcare data analytics in the healthcare delivery system. The various healthcare data sources and how healthcare data is organized, processed, and analyzed are reviewed. The impact of healthcare data analytics to healthcare delivery, operations, and outcomes are discussed.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 161 - Excel and Data Management for Healthcare Data Analytics

Prerequisites: None.
Description: This course introduces students to the basics of data management by hands-on training utilizing popular healthcare data analysis tools, spreadsheet templates, and database applications. Students will receive instruction on how to store, retrieve, and analyze healthcare data.

Credit Hours: 3

Department: Administrative Business Tech

HIT 162 - Advanced Excel and Data Management for Healthcare Data Analytics

Prerequisites: HIT 161 (with a grade of C or better in each course) or permission of the Chairperson. Concurrent Requisite: HIT 160, HIT 161, MAT 102 (with a grade of C or better in both courses).
Description: This course introduces students to the theory and practical application of healthcare data analytics. It provides students with the fundamental concepts of database management and healthcare data sources. The course also prepares students to store, retrieve, and analyze healthcare data and evaluate the effectiveness of healthcare treatment, services, and operations. Structured Query Language (SQL) will be introduced.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 166 - Healthcare Report Writing and Data Visualization

Prerequisites: HIT 160, HIT 161, HIT 162, HIT 170, HIT 171 (with a grade of C or better in each course).
Description: This course prepares students to utilize database query syntax and popular healthcare data visualization software. Students will formally report clinical, administrative, and financial healthcare data through visual design and display.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 170 - ICD-10-CM Diagnostic Coding

Description: Prerequisite: AHS 131 or AHS 225 or BIO 101 and HIT 151 with a grade of C or better in both courses. Cannot be taken concurrently with HIT 156.

This course will familiarize students with all practices and conventions of the ICD-10-CM coding classification. Students will learn to assign alphanumeric codes for medical offices, hospitals, ambulatory surgery centers, and other type of healthcare facilities. Emphasis will be placed on accurate code selection following approved guidelines and coding conventions.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 171 - ICD-10-PCS Procedural Coding

Description: Prerequisite: AHS 225 or AHS 131 or BIO 101 and HIT 151 with a grade of C or better in both courses. Concurrent Requisite: HIT 170.

This course will familiarize students with structure and conventions of the ICD-10-PCS coding classification. Students will learn the process of building codes in the PCS system including review of anatomy and code structure by body part for each of the body systems and related sections of the PCS classification. Emphasis will be placed on accurate code selections following approved guidelines and coding conventions.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Administrative Business Tech

HIT 175 - Study of Disease for HIM Professionals

Description: Prerequisite: AHS 131 or BIO 101 and HIT 151 with a grade of C or better in both courses.
Concurrent Requisite: AHS 132.
This course will provide students with the fundamental concepts of disease processes and their commonly used medications as documented by clinicians required for the accurate assignment of diagnostic and procedural coding. A working knowledge of the nature and cause of disease including the etiology, signs, symptoms, diagnostic evaluation, clinical treatment, and pharmacology management of disease processes necessary for a career in health information management profession are presented. Students will define pharmacological terminology and identify the route of administration, indications, adverse effects and related laboratory studies for commonly used medications.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tech

**HIT 248 - CCS Test Prep**
**Prerequisites:** Permission of Department Chair
**Description:** This course prepares students to sit for the CCS national coding certification exams. Examination study strategies and resources are introduced. Students will review CPT and ICD coding strategies and techniques. Classification systems and secondary data sources are reviewed. Students will complete CCS case studies and mock exams.
**Credit Hours:** 1
**Department:** Administrative Business Tech

**HIT 250 - Health Care Data Structure and Delivery Systems**
**Description:** This course examines the concept of using health data and presenting it as usable information. Verification of data, data timeliness, data accuracy and data appropriateness, various data sets and data sources are discussed. Governmental requirements for data reporting are reviewed. The basics of medical record administration, including format and documentation compliance are also discussed. Students review and analyze actual medical records. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Administrative Business Tech

**HIT 258 - Medical Coding Internship**
**Prerequisites:** HIT 154, HIT 158, HIT 250, HIT 256, and HIT 259 (with a grade of C or better in each course) or permission of the Chairperson.
**Description:** Corequisites: HIT 256 and HIT 259 or permission of the Chairperson. Open to HIT majors only.
This course is a supervised work experience that provides students with exposure to coding practices in a hospital, physician's office, clinic or other health care setting with directed projects common to the typical coding tasks of a clinical coding specialist. Students are introduced to health information technology and coding procedures through observation, study and work. Weekly seminars reinforce work experience.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Administrative Business Tech

**HIT 260 - Quality Management and Organizational Resources in HIM**
**Prerequisites:** HIT 154 and HIT 250 (with a grade of C or better in both courses) or permission of the Chairperson
**Description:** This course covers quality assessment and improvement tools related to health information management. Regulations surrounding utilization management and risk management are discussed. Organizational functions of health information management systems are also discussed. (2 lecture, 2 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3
Department: Administrative Business Tech

**HIT 264 - Applied Healthcare Data Analytics**
**Prerequisites:** HIT160, HIT 161, HIT 162, MAT 102 (with a grade of C or better in each course). Corequisites: HIT 156, HIT 166, HIT 170, HIT 171 (with a grade of C or better in each course).
**Description:** This course prepares students to work with a multidisciplinary team on a healthcare project. It reinforces data analytic skills developed using healthcare case studies. Students will learn key project management and performance improvement skills.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tech

**HIT 270 - HIM Regulatory Issues in the Law**
**Prerequisites:** HIT 154 and HIT 250 (with a grade of C or better in each course) or permission of the Chairperson
**Description:** This course introduces the students to legal issues surrounding the field of health information management. Health information/record laws and regulations are discussed including confidentiality, privacy, and security and usage of health information. Ethics and court decisions that affect healthcare are discussed. (2 lecture, 2 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3
Department: Administrative Business Tech

**HIT 272 - Advanced Medical Coding**
**Description:** Prerequisite: AHS132 or BIO101 and HIT151 HIT170 HIT171 with a grade of C or better in both courses. Taken concurrently with HIT175.
This course focuses on the advanced practices and conventions of ICD-10-CM/PCS and HCPCS CPT coding. Students review and code intermediate and advanced surgical and medical scenarios related to various body systems. Coding standards, guidelines, and regulatory requirements for each system are discussed. Students are introduced to diagnostic and procedure based prospective payment systems including MS-DRGs, APR-DRGs, RUGs, APCS, RBRVS, and E&M coding, as well as diagnostic coding systems including ICD-O and the DSM-5. Course includes an introduction to Systemized Nomenclature of Medicine (SNOMED) and its role as a basis for the electronic health record (EHR). Students utilize popular encoder/group software.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Administrative Business Tech

**HIT 278 - Health Information Management Internship**
**Prerequisites:** HIT 151, HIT 154, HIT 250, and HIT 270 (with a grade of C or better in each course) or permission of the Chairperson. Open to HIT Majors only.
**Description:** This course is supervised work experience that provides students with exposure to health information management practices in a hospital, physician's office, clinic or other health care setting with directed projects common to the typical responsibilities of a health information technologist/medical records specialist. Students are introduced to health information management and medical records procedures through observation, study and work. Weekly seminars reinforce work experience. (2 lecture, 2 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3
Department: Administrative Business Tech

Nassau Community College: https://collegecatalog.ncc.edu/current
Human Services

HMS

HMS 101 - Introduction to Human Services
Description: This course provides students with an understanding of the human services profession: its goals and objectives, theories and methods, and structures and organizations. Emphasis is placed on the role of the human service provider in working with youth, families, the aged and disadvantaged populations.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion
Credit Hours: 3
Department: Sociology

HMS 102 - Interviewing in Human Service Practice
Description: This course teaches interview skills, cultural competency and assessment for beginning human service case managers. A variety of procedures for effective interviews in different areas of practice are studied and practiced along with the holistic case management process, which links vulnerable clients with appropriate services and supports. Skills of exploration listening and documentation are addressed. Traditional lectures, role playing and classroom experiential learning will be significant course components.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion
Credit Hours: 3
Department: Sociology

HMS 117 - Introduction to Community Services
Description: This course focuses on roles helpers play and locations for social work practice. Topics include professional values and the National Association of Social Worker's code of ethics and the knowledge base of the profession. Sociological theory and research are used to examine interventions in individual and community life as well as policy formulation and implementation. Social welfare history is also presented and special attention is paid to working with populations at risk and the importance of cultural competency.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Sociology

HMS 200 - Community Service Skills
Prerequisites: HMS 117
Corequisites: HMS 117
Description: This course surveys the fundamentals of support services. It includes concepts and skills in counseling; interviewing techniques; implementing case management; working with families and groups; planning and record keeping. Students who have taken CSW 200 will not receive credit for HMS 200.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Sociology

HMS 205 - Community Service Skills Internship
Prerequisites: HMS 117 and permission of instructor.
Description: The course includes five field work hours per week plus one and 1/4 seminar hours per week. Students are placed in an established human service agency under professional supervision. Class work focuses on the practical aspects of working in a human service agency, such as: professional responsibilities; supervisory and organizational skills; values and ethics and stress management. Special attention is paid to working with diverse populations.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Sociology

Human Rights Studies

HRS

HRS 101 - Introduction to Human Rights Studies
Prerequisites: Completion of remedial courses in MAT, ENG and RDG.
Description: Introduction to Human Rights Studies uses an interdisciplinary approach incorporating sources from United Nations reports, human rights documents, legal documents, literature, film, art and media to encourage critical thinking in the study of international human rights. This course investigates what human rights are, how they are monitored and defended by governments, international agencies and NGOs and what happens when human rights are violated. (Important case studies will be examined).
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Sociology

HRS 294 - Human Rights Studies Internship
Prerequisites: HRS101 and permission of the department.
Description: Supervised placement in a Non-Governmental Organization (NGO), corporation or other setting relevant to the study of Human Rights and the student's area of interest in order for the student to gain "hands on" experience in the field of Human Rights Study as well as enrich the theoretical practices and concepts explored in the classroom. Expenses may be incurred as a result of travel to the work site.
SUNY GEN ED-n/a; NCC GEN ED-SBS
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Multidisciplinary Studies

Hospitality

HTL

HTL 150 - Introduction to Tourism
Description: This course is designed to introduce students to basic concepts and the language and scope of the tourism industry. It includes the evolution, economic function and analysis of modes, organization, and arrangement of travel.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Hospitality Business

HTL 155 - International Hospitality Industry
**COURSE DESCRIPTIONS**

**HTL 171 - Food and Beverage**

**Description:** A course providing students with techniques and international methods of tourism, culinary arts, hotel/restaurant management. It includes independent research, visits to hotels, restaurants, culinary arts schools and hotel universities. Special expenses for students: air fare to and from foreign countries, food, lodging, taxes, transfers, etc., for approximately two to three weeks.

SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 3

**Department:** Hospitality Business

**HTL 172 - Food Services Cost Analysis**

**Description:** An introduction to food and beverage management, including the elements of stewarding, staffing, budgeting, purchasing, ordering, receiving, storage and control. Topics include equipment layout and design, sanitation and analysis of the food and beverage operation in relation to the lodging facility.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Hospitality Business

**HTL 174 - Fundamentals of Food Preparation**

**Description:** An introduction to food preparation emphasizing basic culinary skills, practices, and the complete sanitation program in food establishments. Chef Instructor demonstrates proper culinary methods and preparations. Students then perform learned skills. Students are required to produce foods and clean and sanitize the kitchen laboratory. Lifting required. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Hospitality Business

**HTL 175 - Food and Beverage Merchandising**

**Description:** Emphasis is placed on the presentation function including menu design & layout, wine & beverage selection, promotion, theme development, creating an atmosphere for dining & marketing the "total product." Students will learn how to cost-out menu items & how to develop a menu. Computer lab will be utilized.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Hospitality Business

**HTL 176 - Advanced Food Production**

**Description:** Traces the growth and development of the lodging industry from early times to modern hotel and motel operations. Covers the application of marketing research to site location, customer demand and determination of operational needs. Includes design and layout, front office requirements, maintenance, equipment and housekeeping activities.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Hospitality Business

**HTL 177 - Servsafe Sanitation**

**Description:** Students learn the basic concepts of food safety that is needed to help protect consumers and businesses against foodborne illness outbreaks. The course demonstrates industry safety methods utilized in food handling, storage, and preparation. It prepares students for an exam sponsored by the National Restaurant Association and administered at the college. Servsafe is a nationally recognized certification.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Winter

**Credit Hours:** 1

**Department:** Hospitality Business

**HTL 178 - Event Planning**

**Description:** An intensive study of the control aspects of the food and beverage industry that dictate profit or loss. Emphasis is placed on sales analysis, pricing, portion control, cost analysis, menu scoring and guideline percentage tests for all major expense components integral to food and beverage operations. Computer lab will be utilized.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Hospitality Business
Credit Hours: 3  
Department: Hospitality Business  

HTL 190 - International Wines and Beverages  
Description: An introduction to the major wine-growing regions of the world and the factors necessary to create an acceptable final product. Topics will include growing and vinification techniques, law and labeling, geography. The course will include discussion on distilled spirits and an introduction to bartending. Students may receive AHMA “Serving Alcohol with Care” Certification. Fee required. SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring  
Credit Hours: 3  
Department: Hospitality Business  

HTL 200 - Hotel Operations Research Seminar  
Description: A comprehensive analysis of developments and problems in the hotel/motel industry utilizing contemporary developments. Emphasis is placed on the integration of the hotel/motel business with the hospitality industry and its present and future role. Students are involved in extensive case analysis. Some field trips required. Minimum 21 hotel/restaurant credits completed. SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring  
Credit Hours: 3  
Department: Hospitality Business  

HTL 205 - Food and Beverage Operations Research Seminar  
Description: An analysis of contemporary developments and problems in the food service industry. All facets are explored including institutional feeding, fast foods, and specialty restaurants from gourmet to catering. Some field trips required. Minimum 15 hotel/restaurant credits completed. SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring  
Credit Hours: 3  
Department: Hospitality Business  

HTL 242 - Hospitality Internship  
Description: Students work for appropriate business firms, institutions and/or agencies to enrich the theoretical concepts previously developed in the classroom. Students must complete 350 hours on-the-job training as assigned by the professor in conjunction with assigned papers and coursework. Some office visits are required by the assigned professor. SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring, Summer  

Credit Hours: 3  
Department: Hospitality Business  

HTL 295 - Independent Study-Hospitality Business  
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly HTL 699. Students who have completed HTL 699 will not receive credit for HTL 295.  
Credit Hours: 3  
Department: Hospitality Business  

Inter Global Studies  

IGS  

IGS 101 - Modern World Societies I  
Description: This interdisciplinary social science course will chronologically explore the development of the modern world from 1500 to 1877. Course content will focus on such topics as scarcity, population dynamics, disease, industrialization, poverty, conflict, and international trade. Pertinent skills will be developed. This course will give students an awareness of the interdependence among past and present nations. Students will work with maps to gain an understanding of geography and the changing world order. SUNY GEN ED-GOWC, GSBS; NCC GEN ED-WESH, PLDI, SBS GLNW  
Offered: Fall  
Credit Hours: 3  
Department: Economics and Finance  

IGS 102 - Modern World Societies II  
Description: This interdisciplinary social science course will chronologically explore the development of the modern world from 1878 to the present. Course content will focus on such topics as scarcity, population dynamics, disease, industrialization, poverty, conflict, and international trade. Pertinent skills will be developed. This course will give students an awareness of the interdependence among past and present nations. Students will work with maps to gain an understanding of geography and the changing world order. SUNY GEN ED-GOWC, GSBS; NCC GEN ED-WESH, PLDI, SBS GLNW  
Offered: Spring  
Credit Hours: 3  
Department: Economics and Finance  

Interior Design  

INT  

INT 101 - Interior Design Studio I  
Description: This course presents an overview of methods for designing residential, business and institutional interiors. Topics taught include the functions and responsibilities of the interior designer as distinguished from other practitioners in the field, space selection, analysis and planning, scale drawing, projections, furniture layouts. Average Materials Cost: $225. SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Fall, Spring  
Credit Hours: 3  
Department: Marketing & Retailing  

INT 102 - History of Furnishings and Design  
Description: This course is a comprehensive survey of the development of furnishings, architecture, decorative arts and interior design from Ancient times through the 21st century. Principle periods include: Classical, Medieval, Renaissance, Baroque, Rococo, Neo-Classical, Arts & Crafts, Art Nouveau, Art Deco, Modern and Post Modern. The development of styles is chronologically traced within the context of the prevailing social, historical, economic and political forces that affect design. Field trip required. Additional transportation fee and museum entrance fee required. SUNY GEN ED-n/a; NCC GEN ED-n/a  
Credit Hours: 3  
Department: Marketing & Retailing  

INT 103 - Trends in Furniture and Lighting Design  
Prerequisites: ENS 101 and INT 101.  
Description: This course covers trends and influences on 20th-century furniture and lighting for the home, office and public interior spaces. The latest trends and technologies are examined through a study of the furniture design process. Crafts and art furniture, antiques and collectibles, are studied for their influences on trends. The wide range of available lighting materials is explored. Creation of dramatic and functional lighting effects and spatial interpretations are studied. Average Materials Cost: $50. SUNY GEN ED-n/a; NCC GEN ED-n/a  
Offered: Spring  
Credit Hours: 3  
Department: Marketing & Retailing  

INT 104 - Color for Home Furnishings and Design  
Description: This course familiarizes students with color language and technology as it applies to interior design. It focuses on the following areas: light and color, color systems,
color schemes, special color effects, practical approaches to and the psychological impact of colors. In addition, students are taught to design a color schematic which is applied to a variety of room plans, and to solve common color problems. Average Materials Cost: $150. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 105 - Resources and Materials
Prerequisites: INT 101.

Description: Emphasis is on the analysis, identification and application of materials for interiors. Wall and floor coverings, cabinetry, windows and upholstery are examined. Students learn to estimate cost and quantities of materials needed for design projects. Resources (vendors of furniture, fabrics, accessories, etc.) are explored. Field trips to suppliers, workrooms and “trade only” showrooms will be scheduled. There will be classroom lectures by manufacturers' representatives and other industry spokespeople. Average materials cost: $50.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 107 - Professional Practices and Business Techniques
Prerequisites: INT 201.

Description: This course is designed to prepare students to understand and execute business aspects of Interior Design. It teaches the concepts and skills necessary to start and to develop an Interior Design business. Sample topics covered include types of business formations, formulating contracts, project management, methods of determining and applying fees, securing financial and legal council, professional ethics, etc. Students are required to develop a prototype client job book - developing a full battery of working forms which are standard in the industry. Average Materials Cost: $75.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 142 - Field Training
Prerequisites: Permission of instructor or Department Chairperson.

Description: Students work for appropriate business firms to enrich the theoretical concepts previously developed in the classroom. Enrollment limited to Interior Design students.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring, Summer

Credit Hours: 3

Department: Marketing & Retailing

INT 201 - Interior Design Studio II
Prerequisites: INT 101.

Description: Students who have taken INT 106 will not get credit for INT 201. (Formerly INT 106). Presents a lesson in mechanical, drafting for interior design majors. Students will be required to draw layouts, elevations, reflective ceiling plans, matrix assessments, and perspective thumb-nail drawings. This will prepare each student for the full gamut of drawings that professional interior designers must necessitate. The presentations of these projects meet a criteria for portfolio development. Average Materials Cost: $75.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 203 - Presentation Techniques for Interior Designers
Corequisites: INT 101.

Description: This course develops and perfects the rendering skills necessary to allow learners graphic expression of interior space. Client presentation technique, visual skills and scale modeling are emphasized as well as materials and coordination.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 204 - Interior Lighting Design
Prerequisites: INT 101

Description: This course presents an overview of methods for the design of interior lighting. Topics taught include: lamps, luminaires, lighting controls, color, psychology and brightness, as well as applications for residential and commercial interior lighting. Students will complete an interior lighting project including lighting plans and fixture specifications.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Marketing & Retailing

INT 206 - Interior Design Working Drawings
Prerequisites: INT 101, INT 102, INT 104, INT 201, ENS 101, ENS 105, ART 111, CET 101.

Corequisites: INT 103, INT 105, INT 107, CET 107.

Description: Must be an Interior Design Major. This course teaches the student to prepare a set of working drawings for use by a contractor and / or architect. Architectural drafting techniques, schedules, specifications of materials and finishes, principles of door window and cabinet detailing are included. The learner will survey architectural drawings and identify with the conventions employed by architects, engineers and building trades. Materials Fee. Enrollment limited to Interior Design students.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 210 - Interior Studio Design III
Prerequisites: INT 201.

Description: This studio course requires the student to focus on specific building types and user groups such as corporate, retail and institutional. Research methods and client requirements are introduced along with techniques in the diagramming and programming of interior space to provide client needs. Design concept, image, color and finishes, graphics, building codes and universal as well as sustainable design are emphasized. Student presentations will be evaluated by professional interior designers. Material fee.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 220 - Interior Design Studio IV
Prerequisites: INT 210.

Description: This course presents the student to explore the wide variety of user groups and discover the challenges associated with the use of multi functional hospitality design. Emphasis on GREEN DESIGN lighting, materials, details color, finishes, barrier free design and building codes. Industry professionals will be available for critique of student projects. Materials Fee.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 295 - Independent Study-Interior Design
Prerequisites: INT 101.

Description: Students who have taken INT 101, INT 102, INT 104, INT 201, ENS 101, ENS 105, ART 111, CET 101.

Corequisites: INT 103, INT 105, INT 107, CET 107.

Description: Must be an Interior Design Major. This course teaches the student to prepare a set of working drawings for use by a contractor and / or architect. Architectural drafting techniques, schedules, specifications of materials and finishes, principles of door window and cabinet detailing are included. The learner will survey architectural drawings and identify with the conventions employed by architects, engineers and building trades. Materials Fee. Enrollment limited to Interior Design students.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 295 - Independent Study-Interior Design
Prerequisites: INT 101.

Description: Students who have taken INT 101, INT 102, INT 104, INT 201, ENS 101, ENS 105, ART 111, CET 101.

Corequisites: INT 103, INT 105, INT 107, CET 107.

Description: Must be an Interior Design Major. This course teaches the student to prepare a set of working drawings for use by a contractor and / or architect. Architectural drafting techniques, schedules, specifications of materials and finishes, principles of door window and cabinet detailing are included. The learner will survey architectural drawings and identify with the conventions employed by architects, engineers and building trades. Materials Fee. Enrollment limited to Interior Design students.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 295 - Independent Study-Interior Design
Prerequisites: INT 101.

Description: Students who have taken INT 101, INT 102, INT 104, INT 201, ENS 101, ENS 105, ART 111, CET 101.

Corequisites: INT 103, INT 105, INT 107, CET 107.

Description: Must be an Interior Design Major. This course teaches the student to prepare a set of working drawings for use by a contractor and / or architect. Architectural drafting techniques, schedules, specifications of materials and finishes, principles of door window and cabinet detailing are included. The learner will survey architectural drawings and identify with the conventions employed by architects, engineers and building trades. Materials Fee. Enrollment limited to Interior Design students.

SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Spring

Credit Hours: 3

Department: Marketing & Retailing

INT 295 - Independent Study-Interior Design
Prerequisites: INT 101.

Description: Students who have taken INT 101, INT 102, INT 104, INT 201, ENS 101, ENS 105, ART 111, CET 101.

Corequisites: INT 103, INT 105, INT 107, CET 107.
COURSE DESCRIPTIONS

completed INT 699 will not receive credit for INT 295.

Credit Hours: 3

Department: Marketing & Retailing

Italian

ITA 101 - Beginning Italian I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.

Description: This is the first course in the ITA 101-ITA 102 sequence. Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. This course is not intended for students of Italian speaking background. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Foreign Languages

ITA 102 - Beginning Italian II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. ITA 101 or equivalent.

Description: This is the second course in the ITA 101-ITA 102 sequence. Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Foreign Languages

ITA 201 - Intermediate Italian I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. ITA 102 or equivalent.

Description: This is the first course in the ITA 201-ITA 202 sequence. Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall

Credit Hours: 3

Department: Foreign Languages

ITA 202 - Intermediate Italian II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. ITA 201 or equivalent.

Description: This is the second course in the ITA 201-ITA 202 sequence. Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Spring

Credit Hours: 3

Department: Foreign Languages

ITA 225 - Italian for Business
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. ITA 102 or permission of the instructor.

Description: Using print, video, and electronic media this course offers students a practical knowledge of Italian business terminology and procedures. It will introduce students to such topics (in Italian) as commercial letter writing, telephone etiquette, filling out business forms, etc. Students will also learn how to deal with cultural aspects of the international business environment. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM
Offered: Fall

Credit Hours: 3

Department: Foreign Languages

Information Technology

ITE

ITE 101 - Introduction to Information Technology
Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting this course.

Description: Students will not receive credit for both ITE 101 and CMP 103. This course offers a broad-based introduction to the field of Information Technology (IT) including its evolution, current trends and future directions. Students will be introduced to the various aspects of IT along with an understanding of the technical support that is provided to employees and organizations. IT fundamentals, operating systems and hardware, web development, networking, and information and database systems will be covered.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Math/Computer Science/Info Tec

ITE 153 - Operating Systems Management
Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting this course.

Description: This course examines the fundamental role of operating systems as it relates to the interaction of hardware and application software. Students will learn core operating system technologies including installing, configuring, and maintaining operating systems for client workstations.
Course Descriptions

In both networked and non-networked environments. Students will obtain a basic understanding of hardware components, desktop components and interfaces. They will learn how to use various system administration tools and utilities to manage an operating system. Emphasis is placed on creating a computing environment for users which will maximize productivity and minimize workstation problems. Laboratory fee applies.

Suny gen ed-n/a; Ncc gen ed-n/a

Offered: Fall, Winterim, Spring, Summer

Credit Hours: 4

Department: Math/Computer Science/Info Tec

ITE 154 - Web Programming I

Prerequisites: At least a C or better in both CSC 104 and ITE 101.

Description: This course is an introduction to the fundamentals of programming using a modern object-oriented scripting language such as JavaScript. Object-oriented and fundamental programming concepts are covered along with events, event handlers, both built in functions and user-defined functions, predefined and user-defined objects, web form validation and browser considerations. Projects and assignments will mirror real-world applications and usage. Laboratory fee applies.

Suny gen ed-n/a; Ncc gen ed-n/a

Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Math/Computer Science/Info Tec

ITE 204 - Java Programming

Prerequisites: A grade of C or better in ITE 154.

Description: This course is an introduction to object-oriented programming using the Java programming language. Students will become familiar with the concepts of objects and classes, inheritance, polymorphism, and encapsulation. Topics include creating graphical user interfaces, servlets, networking, and exception handling. Optional topics include applets and multi-threading. Students who have completed CMP 218 will not get credit for ITE 213. (4.5 lecture hours) Laboratory fee applies.

Suny gen ed-n/a; Ncc gen ed-n/a

Offered: Fall, Winterim, Spring, Summer

Credit Hours: 4

Department: Math/Computer Science/Info Tec

ITE 213 - Data Communications and the Internet

Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.

Description: Students should have a basic knowledge of computer hardware and software and be able to navigate within an operating system environment. This course is designed to acquaint the student with the interface, hardware, software, and the communications protocols necessary to utilize various information systems of both local and global networks. Topics include: installation of communications hardware and software, Local Area Networks (LAN), Wide Area Networks (WAN) and the Internet, along with governance and structure of computer networks. Sites and domains, remote connections, file transfer protocols, electronic resources, navigation of remote domains and networks, networking security, societal impact and related issues will be covered. Students who have completed CMP 110 will not get credit for ITE 213. Laboratory fee applies.

Suny gen ed-n/a; Ncc gen ed-n/a

Offered: Fall, Spring

Credit Hours: 3

Department: Math/Computer Science/Info Tec

ITE 215 - Topics in Data Communications and Enterprise Networks

Description: Pre or Concurrent Requisites: A grade of C or better in ITE 213. This course discusses topics involving the interface, hardware, software, and communications protocols necessary to utilize various information systems of both local and global networks. Topics include: hands on installation of communications hardware and software, Local Area Networks (LAN), Wide Area Networks (WAN). Other topics are network operating systems, introductory hands on experience with router and switch configuration, navigation of remote domains and networks, and networking security. Students will use popular networking equipment that is widely used in industry.

Suny gen ed-n/a; Ncc gen ed-n/a

Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Math/Computer Science/Info Tec

ITE 223 - Network Management I

Prerequisites: A grade of C or better in ITE 153; concurrency with ITE 213 permitted.

Description: This course is designed to cover fundamental and advanced concepts in network theory and system administration. Use of the network operating system in planning and management of directory services and network file systems are stressed. Additional topics include: setting up and maintaining user accounts, protecting network data, network printing, management of devices, application software, workstation management, data communications and network security. This course contains knowledge units typically needed for professional certification. The lab portion of the course incorporates a widely used network operating system by Novell and/or Microsoft. Students who have completed CMP 208 will not get credit for ITE 223. (4.5 lecture hours) Laboratory fee applies.

Suny gen ed-n/a; Ncc gen ed-n/a

Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Math/Computer Science/Info Tec

ITE 227 - Computer Forensics

Prerequisites: A grade of C or better in ITE 153, ITE 217 and ITE 223; concurrency with ITE 223 permitted.

Description: This course will introduce techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. This is a hands-on approach to the tools and methodologies used in computer forensics. It will examine the fundamentals and best practices for incident response and data acquisition. Current tools and procedures will be surveyed, implemented, and studied using virtual machines and cloud environments.

Suny gen ed-n/a; Ncc gen ed-n/a

Offered: Fall, Winterim, Spring, Summer
services to reinforce the principles of forensic investigations. It will also examine report writing, testimony delivery, elicitation of experts and witnesses, and the ethics of investigations.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Math/Computer Science/Info Tec

ITE 237 - Hacking & Defensive Technology

Description: Prerequisite: ITE 217 with C or better grade.
This course introduces topics associated with investigating and combating the techniques utilized by hackers and cybercriminals. Students will learn different methodologies utilized by hackers including footprinting, port scanning, and social engineering. In addition, the course will cover various defensive technologies and incident responses used to tighten network security. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Math/Computer Science/Info Tec

ITE 252 - Database Management

Prerequisites: A grade of C or better in both CSC 104 and ITE 101.

Description: This course is an introduction to database processing for business applications. Emphasis is placed on the design, implementation and administration of a database as well as the use of Structured Query Language (SQL). Students will develop applications using a popular DBMS software package. Students who have completed CMP 252 will not get credit for ITE 252. (4.5 lecture hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 4

Department: Math/Computer Science/Info Tec

ITE 253 - Network Management II

Prerequisites: A grade of C or better in ITE 223.

Description: This course is designed to cover advanced concepts in network configuration and implementation. Topics include methods of installation, and upgrading of server operating system software along with implementation, merging and integration techniques. Configuration and applications of multiple protocols including, Web server and File Transfer Protocol (FTP) services, will also be discussed. This course contains knowledge units typically needed for professional certification. This course will incorporate a widely used network operating system by Novell and/or Microsoft. Students who have taken CMP 209 will not get credit for ITE 253. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 6

Department: Math/Computer Science/Info Tec

ITE 254 - Web Programming II

Prerequisites: A grade of C or better in ITE 154.

Description: This course offers students advanced instruction in web programming via server-side and client-side programming languages and database integration. Students develop interactive web pages to understand how web professionals build e-commerce and search sites in the job marketplace. Languages PHP, JSP, and CSS are used and integrated with MySQL. Various development tools are explored. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 3

Department: Math/Computer Science/Info Tec

ITE 255 - Routing and Switching Essentials

Prerequisites: A grade of C or better in ITE 213 and ITE 215.

Description: This course will cover the architecture, components, and operations of routers and switches installed on a computer network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with routing protocols such as RIPv1, RIPv2, and single-area and multi-area OSPF. In addition students will learn how to troubleshoot virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Math/Computer Science/Info Tec

ITE 264 - Applications Development

Prerequisites: A grade of C or better in ITE 252 and ITE 204 or CMP 219 or permission of the Department; concurrency with ITE 252 permitted.

Description: This course introduces to the student computer programming using a GUI (Graphical User Interface) programming language. Business and information system applications are developed using Visual Basic. NET. The course provides the concepts of event-driven programming, terms, rules, and programming components for database application development. Students who have completed CMP 214 will not get credit for ITE 264. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 3

Department: Math/Computer Science/Info Tec

International Field Training

IWS

IWS 142 - International Field Training

Prerequisites: Permission of Department Chairperson.

Description: During summer intersession. Students work for appropriate international business firms, institutions and/or agencies to enrich the theoretical concepts previously developed in the classroom. Students work outside of the U.S. SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Marketing & Retailing

IWS 299 - Practicum Presentation

Description: SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 0

Department: Marketing & Retailing

Japanese

JPN

JPN 101 - Beginning Japanese I

Prerequisites: Satisfactory completion of ENG 001 and RDG 002.

Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening, comprehension, and simple conversational patterns. This course is not intended for students of Japanese speaking background. Laboratory fee applies. Laboratory component required. SUNY GEN ED-GFOL; NCC GEN-ED-HUM, GLNW
Offered: Fall, Summer

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Korean

KOR

KOR 101 - Beginning Korean 101
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening, comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required. SUNY GEN ED-GFOL; NCC GEN ED-HUM
Offered: Fall, Winter, Spring
Credit Hours: 3
Department: Foreign Languages

LAS

LAS 101 - Introduction to Latin American Studies
Description: This course introduces students to the interdisciplinary study of the diverse nations, traditions, experiences, and concerns of the peoples in Latin America. Class, race, and ethnicity issues, gender, language, and identity will be explored through a variety of media. Sociological, political, literary, historical, and theoretical contexts will frame the examination of subjects such as family, religion, ideological perspectives, (neo) colonialism, labor, the state, the economy, the environment, and the arts.
SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Multidisciplinary Studies

LAS 105 - Introduction to Latino/a American Studies in the U.S.

Latin

LAT

LAT 101 - Beginning Latin I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: The essentials of Latin grammar and vocabulary. Selected readings from prose authors. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Foreign Languages

LAT 102 - Beginning Latin II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. LAT 101 or equivalent.
Description: The essentials of Latin grammar and vocabulary. Selected readings from prose
Legal Studies

LAW 103 - Business Law I
Description: An overview of the Law and the American legal system and court structure; an extensive study of the basic principles of the law of contracts, sales, and security devices. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 104 - Business Law II
Prerequisites: LAW 103.
Description: The legal aspects of business including basic principles of real and personal property, bailments, wills and intestate succession. It will also cover business arrangements including partnerships, corporations, limited liability companies as well as commercial paper. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 105 - Introduction to Current Law
Description: A study of the American legal system, including its historical development and judicial structure. The course will emphasize legal process, reasoning, and analysis. The student will also learn about the paralegal profession, including its ethical responsibilities. Formerly LAW 300. Students who have completed LAW 300 will not receive credit for LAW 200. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 106 - Sports and the Law
Description: Understanding the law in connection with the world of sports is important because the business of sports is a multibillion dollar industry that provides a variety of employment opportunities. Through the subject of sports, the course will cover topics in the law such agency, contracts, torts, crimes, discrimination towards women and persons with disabilities, international law, antitrust and labor law, intellectual property and alternative dispute resolution. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 107 - Hotel Management Law
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Intermittently
Credit Hours: 3
Department: Legal Studies

LAW 108 - Disability Law & Social Policy
Description: This course will explore the evolution of US Disability Law focusing on the creation, implementation and interpretation of legislative enactments and administrative regulations that define disability and accommodations that are required. The impact of governmental policies on individual rights and societal needs will be examined. Students will gain a conceptual and practical understanding of social responsibility, forms of discrimination, and current educational and employment rights and protections for those with disabilities.
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 200 - Introduction to Law and the Legal System
Description: A study of the American legal system, including its historical development and judicial structure. The course will emphasize legal process, reasoning, and analysis. The student will also learn about the paralegal profession, including its ethical responsibilities. Formerly LAW 300. Students who have completed LAW 300 will not receive credit for LAW 200.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 201 - The Law: Current Issues in Society
Description: (Honors and non-Honors Sections) A study of the origins of law in the U.S.A. and its role in resolving societal issues and conflicts. Students will have the opportunity to explore various individual, societal issues and conflicts. Students will have the opportunity to explore various individual, societal and legal perspectives on contemporary issues. This course was previously title The Nature and Functions of Law.
SUNY GEN ED-n/a; NCC GEN ED-PLDI
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 202 - Partnerships & Corporations
Prerequisites: LAW 105.
Description: An in-depth study of the law of partnerships, corporations, and limited liability entities. An analysis will be made of the creation of the partnership as well as its termination. New York State corporate requirements will be analyzed with a view of the creation and termination of the corporation. The student will be required to prepare the various partnership and corporation agreements and documents. Formerly LAW 302. Students who have completed LAW 302 will not receive credit for LAW 202.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 203 - Environmental Law, Policy & Sustainability
Description: This course will explore the evolution of environmental law and policy focusing on the creation, implementation and interpretation of legislative enactments and administrative regulations. The impact of governmental policies on human needs and our natural resources will be examined. Students will gain familiarity with current issues and case law dealing with environmental disruption, sustainability and corporate social responsibility.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Intermittently
Credit Hours: 3
Department: Legal Studies

LAW 204 - Real Property
Prerequisites: LAW 105.
Description: A study of the various types of real property relationships and transactions. Such areas as contracts, deeds, mortgages, leases, and title searches will be reviewed. The student will be required to prepare the various real property documents, compute closing adjustments, and prepare closing statements. Formerly LAW 304. Students who have completed LAW 304 will not receive credit for LAW 204.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 205.
COURSE DESCRIPTIONS

LAW 205 - Legal Research & Writing
Prerequisites: LAW 200
Corequisites: LAW 200.
Description: The course will serve two functions: first, to teach the paralegal to use a library effectively in conducting legal research; and second, to prepare a written memorandum dealing with the results of this research. Formerly LAW 305. Students who have completed LAW 305 will not receive credit for LAW 205.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Legal Studies

LAW 206 - Practicum
Prerequisites: All LAW courses in Paralegal Program. Permission of instructor required.
Description: Supervised practical experience in a law firm or law-related institution. Formerly LAW 306. Students who have completed LAW 306 will not receive credit for LAW 206.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Legal Studies

LAW 207 - Torts and Personal Injury Law
Prerequisites: LAW 221 and LAW 205.
Description: An in-depth study of the Law of torts with emphasis on negligence. This course will familiarize students with the negligence litigation process and the practical aspects of assisting attorneys in the personal injury field. Formerly LAW 307. Students who have completed LAW 307 will not receive credit for LAW 207.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 208 - Family Law
Prerequisites: LAW 205.
Description: A study of the marriage relationship, legal problems with children, dissolution of marriage, custody, legitimacy, adoption, change of name, guardianship, support, court procedures and separation agreements. Formerly LAW 308. Students who have completed LAW 308 will not receive credit for LAW 208.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Legal Studies

LAW 209 - Law Office Management
Prerequisites: LAW 200
Corequisites: LAW 200.
Description: Introduction to basic concepts of Law office management for the Paralegal, including an examination of Law office structure, management principles, and legal ethics. In addition, the course will include an introduction to computer utilization in litigation support, legal research and case management. Students must be familiar with word processing or enroll in ABT 109 prior to taking this course. Formerly LAW 309. Students who have completed LAW 309 will not receive credit for LAW 209.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Legal Studies

LAW 210 - Bankruptcy/Debt/Credit Law
Prerequisites: LAW 205.
Description: Introduction to the basic concepts of bankruptcy Law, including the Paralegal's role in the preparation and filing of necessary documents for Chapters 7, 11, and 13 bankruptcy cases. In addition, the student will be instructed in the use of current computer software in bankruptcy practice. Formerly LAW 310. Students who have completed LAW 310 will not receive credit for LAW 210.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Legal Studies

LAW 211 - Legal Writing & Analysis
Prerequisites: LAW 200 and LAW 205.
Description: This course will emphasize the development of legal writing skills for the paralegal. The student will draft letters, briefs, memoranda, and other documents used in legal practice. The students will learn the mechanics of legal writing, stressing clear and concise expression, citation, and terminology. Formerly LAW 311. Students who have completed LAW 311 will not receive credit for LAW 211.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Legal Studies

LAW 212 - Elder Law
Prerequisites: LAW 200 and LAW 205.
Description: LAW 212, Elder Law, will provide the student with knowledge of the basic concepts of elder law, including the paralegal's role in the preparation and filing of necessary legal documents such as power of attorney forms, health care proxies, living wills, advance directives and last wills and testaments. It will also focus on such topics as guardianships, health care decision making, Medicaid, long-term care housing options, various tax issues, social security and elder abuse. Formerly LAW 312. Students who have completed LAW 312 will not receive credit for LAW 212.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Legal Studies

LAW 213 - Immigration Law
Description: The course explores all significant aspects of the immigration and naturalization process in the United States and the social justice implications of immigration Law. The course will focus on immigrants and the different categories of non-immigrants and the various laws that must be followed by diverse areas of the world to visit the U.S. from abroad or to gain permanent resident status. The subject areas covered include political asylum and refugee status; permanent resident alien status; non-immigrant temporary residents; temporary protected status; and legal procedures for admission, exclusion, and deportation.
Credit Hours: 3
Department: Legal Studies

LAW 214 - Law and Ethics in Medicine & Medical Malpractice
Description: This course will provide a legal, conceptual, and practical understanding of health care law and policy, the laws relationship to medical ethics, and the procedural and substantive aspects of medical malpractice lawsuits. Students will be able to evaluate and understand how federal and state laws impact and affect people in the health care field. Ethical and societal issues relating to the rights of those seeking health care will be examined.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Legal Studies

LAW 215 - U.S. Judicial System
Prerequisites: Students must have completed all remedial courses, have a minimum GPA of 2.5 and completion of 15 college credits. Prospective students must be interviewed and recommended by the instructor. Special expenses for students may include airfare or other forms of transportation to and from select destinations, lodging, transfers and special meals for approximately two weeks.

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COURSE DESCRIPTIONS

**Legal Studies**

**LAW 216 - International Legal Systems**

**Description:** The travel/study course explores the roots of the American Legal System from its origins in English common law to its current role in international law. The workings of the English Courts of law, the European Parliament and the International Court of Justice will be studied. The course involves travel to some or all of the locations of the European legal system including the United Kingdom, Brussels, Belgium (home of the European Union) and the Hague in the Netherlands (site of the International Court of Justice), and Strasbourg, France depending on the Courts availability. Expenses include airfare, lodging, meals and transportation between locations. Formerly LAW 316. Students who have completed LAW 316 will not receive credit for LAW 216.

**SUNY GEN ED-n/a; NCC GEN ED-n/a**

**Offered:** Intermittently

**Credit Hours:** 3

**Department:** Legal Studies

**LAW 221 - Litigation**

**Prerequisites:** LAW 205.

**Description:** A study of the lawsuit with an emphasis on pleadings. The student will study and will be required to prepare such documents as the summons, complaint, answer, interrogatories, motions, orders to show cause, and orders. Some of the other topics to be covered are pretrial settlements, releases, and enforcement of judgments. Formerly LAW 301. Students who have completed LAW 301 will not receive credit for LAW 221.

**SUNY GEN ED-n/a; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Legal Studies

**LAW 223 - Estates & Administration**

**Prerequisites:** LAW 205.

**Description:** The study of wills, intestacy, and administrative proceedings. The student will study basic aspects of estate planning, will preparation, probate, and administration. Formerly LAW 303. Students who have completed LAW 303 will not receive credit for LAW 223.

**SUNY GEN ED-n/a; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Legal Studies

**LAW 295 - Independent Study-Legal Studies**

**Description:** Formerly LAW 316. Students who have completed LAW 315 will not receive credit for LAW 295.

**SUNY GEN ED-n/a; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Legal Studies

**Library**

**LIB 100 - Essential Research for College Success**

**Description:** This course introduces students to the research process: the organization, location, evaluation and ethical use of information using print, non-print and electronic resources. Through hands-on active learning activities, students will gain an understanding of basic research and information literacy skills that will aid them in college-level work and lifelong learning.

**SUNY GEN ED-n/a; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 1

**Department:** Library

**LIB 101 - Introduction to Research**

**Description:** Students develop information literacy through the selection, location, evaluation and ethical use of information sources and systems for college work and lifelong learning. Hands-on, active learning sessions familiarize students with print and digital resources, including books, periodicals, audiovisual materials, online databases and the Internet. Critical thinking projects that provide in-depth exploration of the research process reinforce skills required for academic work and college-level research projects.

**SUNY GEN ED-n/a; NCC GEN ED-n/a**

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Library

**LIB 295 - Independent Study-Library**

**Description:** Formerly LIB 699. Students who have completed LIB 699 will not receive credit for LIB 295.

**SUNY GEN ED-n/a; NCC GEN ED-HUM**

**Credit Hours:** 3

**Department:** Library

**LOG**

**LOG 101 - Principles of Logistics and Management I**

**Prerequisites:** Students must have satisfied all MAT, ENG 001 and RDG 001 remediation requirements prior to starting the course.

**Description:** Development of the modes of transportation; economic, social and political systems within which the various modes of transportation operate and the effect of these modes on the transportation of goods and passengers; analysis of present challenges and opportunities facing the railroads, airlines, motor carriers, water carriers, pipelines and third parties (forwarders, brokers, etc.);
emerging concepts and technologies. The student is introduced to the concept of the systems approach to distribution and logistics management, including existing and emerging communications systems. Also reviewed is regulation and deregulation affecting national and international transportation.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

**LOG 102 - Principles of Logistics and Management II**

**Prerequisites:** LOG 101 or permission of the Department. Students must have satisfied all MAT, ENG 001 and RDG 001 remediation requirements prior to starting the course.

**Description:** Further analysis of the issues related to the shipper, carrier and consignee of goods; documentation; responsibility and liabilities of shippers, carriers and third parties; handling of claims; routing; types of regulation and deregulation and the regulatory agencies; procedures used in determining freight rates and services. The student is made aware of some of the more complicated issues associated with distribution and logistics management, including the planning and evaluation of its effectiveness. Simulations of these concepts are discussed at length.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

**LOG 103 - Systems of Intermodal Transportation**

**Prerequisites:** LOG 101 and LOG 102 and MAT 102. Students must have satisfied all MAT, ENG 001 and RDG 001 remediation requirements prior to starting the course.

**Description:** Overall description of various modes of transportation and logistics systems as they relate to statistical and mathematical models and computer simulations to determine optimum operating conditions and opportunities under which modal and intermodal transportation systems exhibit economically efficient performances. Includes game theory analysis of alternative situations.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

**LOG 104 - Railroad and Motor Carrier Transportation and Logistics**

**Prerequisites:** LOG 101 or LOG 102 and MAT 102. Students must have satisfied all MAT, ENG 001 and RDG 001 remediation requirements prior to starting the course.

**Description:** Development of railroad and motor carrier transportation; importance of intermodalism and communications; types of services rendered; equipment utilized; rates; rules, regulations, and insurance; routing techniques and optimization; analysis of operations and current problems utilizing stochastic models, queuing theory and computer simulations; emerging concepts and technologies.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

**LOG 105 - Water and Airline Transportation and Logistics**

**Prerequisites:** LOG 103. Students must have satisfied all MAT, ENG 001 and RDG 001 remediation requirements prior to starting the course.

**Description:** Development of water and air transportation; importance of intermodalism and communications; port and airport operations; services provided; equipment used; rate and service structures and formulation, rules, regulations, insurance, routing techniques and optimization; analysis of operations and competitive alternatives utilizing stochastic models, modal split models, queuing theory and computer simulations.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

**LOG 107 - Intermodalism and Transportation Regulations**

**Prerequisites:** LOG 102. Students must have satisfied MAT, ENG 001 and RDG 001 remediation requirements prior to starting the course.

**Description:** International, Federal and state regulations; response to deregulation; regulatory agencies and penalties for violations; economic and constitutional background of transportation regulations; emerging policies and their impact on present and near term transportation and logistics operations.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: On Occasion

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

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**Mathematics**

**MAT 001 - College Preparatory Mathematics**

**Description:** A non-credit course required of students not meeting the entrance requirements in Mathematics. Topics include: Integers and rational numbers, fundamental operations with integers, fractions and decimals, ratio and proportion, percent, consumer and job related problems. Hand-held calculators will be used (3 lecture hours).

SUY GE-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer

**Credit Hours:** 0

**Department:** Math/Computer Science/Info Tec

**MAT 002 - Introductory Algebra**

**Prerequisites:** Satisfactory completion of MAT 001 or by college placement test.

**Description:** A non-credit course required of students having deficiencies in Mathematics. Topics include: fundamental processes of arithmetic and algebra, factoring, linear and fractional equations, exponents, radicals, quadratic equations and right triangle trigonometry. Hand-held calculators will be used (4.5 lecture hours).

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer

**Credit Hours:** 0

**Department:** Math/Computer Science/Info Tec

**MAT 003 - Integrated Arithmetic and Introductory Algebra**
COURSE DESCRIPTIONS

**MAT 010 - Quantitative Reasoning I**

**Description:** A non-credit course that is a one-semester option to replace the two-semester sequence of MAT 001 and MAT 002. All students with a MAT 001 placement who have not previously taken this course are eligible. This course cannot be repeated. Arithmetic and algebra will be integrated throughout the semester. Emphasis will be placed on fundamental operations of integers and rational numbers, ratio and proportion, percents, factoring, linear and fractional equations, exponents, radicals, quadratic equations, and right triangles. Various relationships will be explored both graphically and analytically. Hand-held calculators will be used. (6 lecture hours).

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer

**Credit Hours:** 6

**Department:** Math/Computer Science/Info Tec

MAT 102 - Integration of Arithmetic and Quantitative Reasoning I

**Description:** Placement of Math 013 or Unsatisfactory grade in Math 001. A non-credit course that is a one-semester option to replace the two-semester sequence of MAT001 and MAT012. This course prepares students to take a college-level general liberal arts course in mathematics. All Non-Stem students with a Math 001 placement are eligible. This course integrates arithmetic and quantitative literacy with mathematical concepts such as fluency with numbers, proportional reasoning, data interpretation, algebraic reasoning, graphing lines, and modeling. Group work and class discussions will be used to investigate mathematical concepts based on real-life examples. Some examples include: social justice; home repair; population growth and density; and congressional structure. Students who intend to major in science, technology, engineering or mathematics should take MAT003 instead of this course. Hand-held calculators will be used. Graded on an S-U basis (6 lecture hours).

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

MAT 103 - Applied Statistics

**Prerequisites:** Students are to be placed into MAT 103 by the following:

**Description:** At least a C in MAT 102. Students must have satisfied all MAT, ENG 001 and RDG 001 remediation requirements prior to starting the course. A course for students concentrating in liberal arts, social science, humanities, and statistics. Through the use of computer software packages such as Excel, Lotus 1-2-3, Statistical Package for the Social Sciences (SPSS), and Minitab, the basic and more advanced ideas of descriptive and inferential statistics are studied.

SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer

**Credit Hours:** 3

**Department:** Math/Computer Science/Info Tec

MAT 104 - College Algebra and Trigonometry

**Prerequisites:** Students are to be placed into MAT 104 by the following:

**Description:** College Placement Test (For some students whose College Placement Test scores allow for MAT 104, MAT 002 might be recommended prior to taking MAT 104) Students must have satisfied MAT002 or MAT003, ENG 001 and RDG 001 developmental course requirements prior to starting the course.

See calculator note in catalog. This course considers fundamental ideas from algebra, trigonometry, and functions, including exponentials and logarithms. A problem solving approach is used. (4.5 lecture hours)

SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer

**Credit Hours:** 4

**Department:** Math/Computer Science/Info Tec
MAT 111 - Pre-Calculus
Prerequisites: Students are to be placed into MAT 111 by the following:
Description: College Placement Test or at least a C in MAT 109 or MAT 116.
*See calculator note in catalog. A primer course for the study of Calculus. The function concept plays the unifying role in the study of polynomial, rational, exponential, logarithmic, and trigonometric functions. The modeling of elementary functions is stressed and topics are presented graphically, numerically, analytically, and verbally (following the Rule of Four). Technological support using a graphing calculator is integrated throughout the semester. In addition, appropriate computer software may also be available. (4.5 lecture hours)
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 112 - Calculus with Applications in Business and Social Sciences
Prerequisites: Students are to be placed into MAT 112 by the following:
Description: College Placement Test or at least a C in MAT 111 or MAT 117
*See calculator note in catalog. This course is not recommended for Math, Engineering, Science or Computer Science students and it does not satisfy the prerequisite for MAT 123. This course is intended to introduce the fundamental concepts and techniques of calculus to the non-science student. Special emphasis is given to applications in Business and Social Sciences. Topics include functions and graphs; the derivative and differentiation techniques of algebraic, exponential and logarithmic functions of a single variable; the concept of margin in economics; elasticity of demand; differentials; related rates and optimization problems; growth and decay applications; integrals and integration techniques; application of integrals, including producer's and consumer's surplus; income streams, probability. (4.5 lecture hours) Students will not receive credit for both MAT 112 and MAT 122.
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 114 - Foundations of Mathematics for Educators

Prerequisites: Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course.
Description: This course is intended for students who are interested in teaching at the elementary school level. Topics will include a development of binary algorithms, the real numbers, field properties of the real number system as applied to abstract mathematical systems, numerations systems, functions and equivalence relations, solving systems of algebraic equations and number theory including some algebraic proof. Applications, historical perspectives, problem solving, and use of the technology will be emphasized in all topics. Students will not receive credit for both MAT 100 and MAT 114. (3.0 lecture hours)
SUNY GEN ED-n/a; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Math/Computer Science/Info Tec

MAT 116 - Engineering Technical Math I
Prerequisites: Two years of Regents H.S. mathematics, with at least a 78% on Math A Regents; or at least a 75% average in two years of Regents H.S. mathematics, or satisfactory completion of MAT 002. Students must have satisfied MAT 002 or MAT 003, ENG 001 and RDG 001 developmental course requirements prior to starting the course.
Description: *See calculator note in catalog. Designed for students in Engineering Technology Programs. Operations with real numbers; exponents and scientific notation; equations and inequalities; functions and graphs; system of equations and determinants; triangle trigonometry and introduction to general trig definitions; algebraic products and factoring; solving equations by factoring and quadratic formula; fractional equations and operations with algebraic fractions. Applications are considered from various scientific, technical, and practical areas. (4.5 lecture hours) Students will not receive credit for both MAT 109 and MAT 116.
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: On Occasion
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 118 - Finite Mathematics: Quantitative Analysis
Prerequisites: Students are to be placed into MAT 118 by the following:
Description: College Placement Test (for some students whose College Placement Test scores allow for MAT 118, MAT 002 might be recommended prior to taking MAT 118) Students must have satisfied all MAT, ENG 001 and RDG 001 developmental course requirements prior to starting the course. This course covers applications of finite mathematical models, primarily to problems in business and management. Matrix operations, Markov analysis, Gauss-Jordan elimination, input-output analysis, linear programming and the simplex method, game and decision theory will be addressed.
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Math/Computer Science/Info Tec

MAT 122 - Calculus I
Prerequisites: Students are to be placed into MAT 122 by the following:
Description: College Placement Test or at least a C in MAT 111 or MAT 117.
*See calculator note in catalog. Definitions of limit, continuity and derivative; rates of change, tangent to a curve, chain rule; derivatives of elementary functions, products, quotients; higher order, implicit and inverse differentiation; mean value theorem; maxima and minima; differentials; definition of the definite integral, Fundamental Theorem of Integral Calculus; applications; integration of elementary functions. (4.5 lecture hours)
Students will not receive credit for both MAT 112 and MAT 122.
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 123 - Calculus II
Prerequisites: At least a C in MAT 122.
Description: *See calculator note in catalog. Methods of integration; improper integrals, applications of the definite integral including volume and surface area of solids of revolution; introduction to mathematical modeling using differential equations; Euler's method; separation of variables; slope fields; introduction to infinite series. (4.5 lecture hours)
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 131 - Probability with Statistical Inference
Prerequisites: At least a C in MAT 123 (Calculus II).
SUNY GEN ED-n/a; SUNY GEN ED-MATH
Offered: Spring, Summer
Credit Hours: 3
Department: Math/Computer Science/Info Tec

MAT 150 - Data Science/Analytics
Prerequisites: At least a C in MAT 102.
Description: This course will teach how to extract knowledge or insights from data. The student will be introduced to data preparation (data cleaning, merging datasets, creating new variables), exploratory data analysis, correlation, linear regression, multiple linear regression, ANOVA, logistic regression, decision trees, cluster analysis, neural networks, and big data. Industry standard statistical software will be used extensively throughout the course. Lab fee applies.
Formerly MAT 119. Students who have completed MAT 119 will not receive credit for MAT 150.
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 150 - Data Science/Analytics
Prerequisites: At least a C in MAT 102.
Description: This course will teach how to extract knowledge or insights from data. The student will be introduced to data preparation (data cleaning, merging datasets, creating new variables), exploratory data analysis, correlation, linear regression, multiple linear regression, ANOVA, logistic regression, decision trees, cluster analysis, neural networks, and big data. Industry standard statistical software will be used extensively throughout the course. Lab fee applies.
Formerly MAT 119. Students who have completed MAT 119 will not receive credit for MAT 150.
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 200 - Foundations of Advanced Mathematics
Prerequisites: At least a C in MAT 123.
Description: This course introduces students to concepts requisite for advanced mathematical study. The main emphasis is on the development of sound mathematical reasoning and construction of solid mathematical proofs. Mathematical ideas and concepts from the foundations of the number system, set theory, logic, algebra, calculus, number theory and other advanced fields are selected as illustrations. Students are challenged to develop their own conceptual understanding of mathematical proofs, and to defend their mathematical proofs, and to defend their mathematical reasoning.
SUNY GEN ED-n/a; NCC GEN ED-MATH
Offered: Fall
Credit Hours: 3
Department: Math/Computer Science/Info Tec

MAT 223 - Calculus II
Prerequisites: At least a C in MAT 123.
Description: *See calculator note in catalog. Methods of integration; improper integrals, applications of the definite integral including volume and surface area of solids of revolution; introduction to mathematical modeling using differential equations; Euler's method; separation of variables; slope fields; introduction to infinite series. (4.5 lecture hours)
SUNY GEN ED-GMAT; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 225 - Multivariable Calculus
Prerequisites: At least a C in MAT 123.
Description: *See calculator note in catalog. Curves and surfaces in three dimensional space, partial derivatives, gradient, constrained and unconstrained optimization, vector fields, parametric curves and surfaces. Integration topics include multiple integrals, volume, area, mass, line and surface integrals, flux, divergence. (4.5 lecture hours)
SUNY GEN ED-n/a; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 4
Department: Math/Computer Science/Info Tec

MAT 226 - Elementary Linear Algebra
Prerequisites: At least a C in MAT 123.
Description: *See calculator note in catalog. This course is an introduction to Elementary Linear Algebra. Topics to be covered include systems of linear equations, determinants, matrix algebra, vector algebra, vector spaces, linear transformations, eigenspaces, inner products, spectral theory, and linear differential equations.
SUNY GEN ED-n/a; NCC GEN ED-MATH
Offered: Spring, Summer
Credit Hours: 4

Department: Math/Computer Science/Info Tec

MAT 234 - Elementary Differential Equations
Prerequisites: At least a C in MAT 123.
Description: *See calculator note in catalog. Analysis and methods of solving first-order equations, including numerical methods; higher order equations including the Laplace transform method, the Taylor series solution, and boundary value problems; linear systems of equations; applications to physical, engineering and life sciences.
SUNY GEN ED-n/a; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Math/Computer Science/Info Tec

MAT 235 - Algebraic Structures
Prerequisites: MAT 225.
Description: Groups, rings, integral domains, and fields with applications to the integers, rationals, and the real and complex number systems.
SUNY GEN ED-n/a; NCC GEN ED-MATH
Offered: On Occasion
Credit Hours: 3
Department: Math/Computer Science/Info Tec

MAT 241 - Discrete Mathematical Structures
Prerequisites: MAT 122.
Description: Basic concepts of discrete mathematics: logic and set theory, proof techniques, relations, functions, combinations, recurrence relations, introduction to analysis of algorithms, and graph theory. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-MATH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Math/Computer Science/Info Tec

MAT 295 - Independent Study-Math
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-MATH. Formerly MAT 699. Students who have completed MAT 699 will not receive credit for MAT 295.
Credit Hours: 3
Department: Math/Computer Science/Info Tec

Multi-Disciplinary Courses
MDC

MDC 101 - The Making of the Modern Mind I
Prerequisites: Completion of ENG 001 and RDG 001
Description: This course explores the foundations of 20th-century Western Modernism, powerful ideas that transformed human attitudes and brought revolutionary changes that still shape contemporary thought today. Topics include views of evolution, human nature, social conflict, and laws of the universe. The ideas of Darwin, Marx, Freud, Einstein and others are studied. (General Elective credit.)
SUNY GEN ED-GHUM, GWEH; NCC GEN ED-WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Multidisciplinary Studies

MDC 102 - The Making of the Modern Mind II
Prerequisites: Completion of ENG 001 and RDG 001
Description: This course examines how modern ideas contributed to global awareness and provided insight into psychology and human nature. Study the works of modern artists, writers, musicians and filmmakers; understand the roots of feminism, existentialism, science fiction, and the power of mass media. (MDC 101 useful but not a prerequisite. Earns Humanities credit.)
SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Multidisciplinary Studies

MDC 110 - Studies in World Culture
Description: This course explores the diversity of human experience through case studies of Asian, Latin American, and Islamic cultures. A close look at the heritage of art, literature and religion in Egypt, Mexico and Japan illuminates issues that shape national identity and the position of these cultures in the world today. (General Elective credit.)
SUNY GEN ED-GOWC; NCC GEN ED-GLNW
Offered: Fall, Spring
Credit Hours: 3
Department: Multidisciplinary Studies

MDC 120 - Issues in Science Technology and Society
Description: This course introduces the student to the interrelationship of science, technology, and society through the study of selected issues, such as biodiversity, genetic engineering, and communications. The course examines how modern technology affects society and the environment, and also how social institutions shape the development and use of new science and technology. (General Elective credit.)
SUNY GEN ED-GHUM; NCC GEN ED-WESH
Offered: Fall
Credit Hours: 3
Department: Multidisciplinary Studies

MDC 130 - Major Ideas in the Post-Modern World
Prerequisites: Completion of ENG 001 and RDG 001
Description: This course follows the making of the modern mind into the 21st century, exploring post-modern thought in Western and non-Western societies. It examines the effects of diversity in the post-colonial and post-Cold War world, the effects on language and personal communication, the media, the arts, science and disease, medical ethics, and implications for future life on the planet. (MDC 101 and MDC 102 are helpful but not prerequisites. Earns Humanities credit.)
SUNY GEN ED-GHUM; NCC GEN ED-GLNW, HUM, PLDI
Offered: Fall, Spring
Credit Hours: 3
Department: Multidisciplinary Studies

Multi-Disciplinary Science Courses

MDS

MDS 101 - Connecting the Sciences - A Macroscopic Approach
Description: This course introduces basic concepts of biology, chemistry, physics, and geology in order to examine the evolution of life in the context of the evolution of the earth and the evolution of the universe. It develops an understanding of fundamental forces, conservation of energy, heat and temperature, light, stellar evolution, solar energy and photosynthesis, evolution of the earth and its atmosphere, and evolution of life. The many topics investigated include the existence of black holes, current theories of plate tectonics, and extinction of the dinosaurs. The course emphasizes hands-on laboratory investigations. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Credit Hours: 4
Department: Engineering/Physics/Tech

MDS 102 - Connecting the Sciences - A Microscopic Approach
Description: Note that MDS 101 is not a prerequisite for this course. This course integrates the study of the physical and life sciences in order to understand the organization of atoms into living and non-living structures: to explore the threshold between the animate and inanimate. The goal is to examine the physics chemistry and biology of a living cell and contrast these cells with inanimate crystals. Students will gain an understanding of atomic and molecular interactions, organic and inorganic molecules, crystals and crystal growth, cellular structure, nucleic acids, and genetic engineering. The course emphasizes hands-on laboratory investigations. (3 lecture, 3 laboratory hours) Laboratory fee applies.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Credit Hours: 4
Department: Engineering/Physics/Tech

Meteorology

MET

MET 101 - Meteorology
Description: To understand the daily and seasonal weather, students will be introduced to basic weather elements such as temperature, pressure, and humidity. Real-time weather maps from the Internet are often used in class to enhance the study of particular topics. After a good foundation in the basic principles of meteorology, various atmospheric phenomena will be discussed, including the formation of rainbows, thunderstorms, lightning, tornadoes and hurricanes. Many of these phenomena are illustrated on videotape. Laboratory exercises include the study of weather instruments, analysis of surface and upper air maps, analysis of soundings on Skew-T diagrams, and weather forecasting. A special section of meteorology may be offered each semester as a hybrid online course. This distance-learning course uses real-time weather data to study the principles of meteorology. Students must have access to a computer and the internet in order to download or print the weekly lessons. Communication between the instructor and student is through the course website. Students will occasionally meet with the instructor on campus to do laboratory experiments that require equipment and to take exams. (3 lecture, 3 laboratory hours) Lab fee applies. Formerly SCI 107. Students who have completed SCI 107 will not receive credit for MET 101.
SUNY GEN ED-GLAB; NCC GEN ED-LSCI
Marketing

**MKT 100 - Introduction to Marketing**
*Description:* Principles and methods employed in all phases of the distribution of goods and services from the producer to consumer. Emphasis on marketing activities includes product planning, consumer behavior, advertising, and marketing research. An overview of the dynamics of marketing which acquaints the student with the general philosophies of the business world.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Winter, Spring, Summer*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 101 - Business Mathematics**
*Description:* May not be used for Mathematics requirement. The course encompasses the application of basic, standard and fundamental principles of mathematics to practical business situations. Typical problems and applications are drawn from business situations and practices.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Spring, Summer*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 103 - Principles of Sales**
*Description:* Techniques involved in retail, wholesale, and industrial level sales situations; personal requirements needed for success in the sales field; discussion of resume writing and job interview techniques; customer prospecting, product knowledge, handling objections, and closing strategies. Instructor and students evaluate actual sales presentations.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Spring, Summer*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 105 - Sports Marketing**
*Description:* This course will give the student a practical and wide ranging understanding of marketing principles as applied to today’s rapidly growing field of sports marketing. An historical perspective of the industry will provide the necessary framework to gain insight into the present and future sports marketing environment. Topics include how colleges, individual athletes, pro and amateur teams, sports facilities, the Olympics and companies who manufacture sporting goods and related products successfully reach their target markets.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Spring, Summer*
*Courses Hours: 4*
*Department: Physical Sciences*

**MKT 106 - Principles of Advertising**
*Description:* An introductory course covering history, functions, principles, and applications of advertising. Topics include copywriting, selection of media, budgeting, print and broadcast production, and the role of the advertising agency and research. Students will develop an advertising campaign.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 108 - Direct Response Marketing**
*Description:* An introduction to the specialized field of direct response marketing. Topics include mail order entrepreneurship, product conception, marketing plans, use of mailing lists, media strategy, catalog development, creation of copy and graphics, case analysis and term project. Guest speakers from industry and/or field trips are scheduled.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 109 - Marketing Research**
*Description:* Techniques of marketing research and other applications to practical marketing problems; information gathering methods, questionnaire formulation, sampling, and report writing. Includes an actual research study, which will be conducted by students.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Spring*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 110 - Marketing Management**
*Description:* Management and coordination of marketing functions, with special attention to product planning and development, pricing, communications, physical distribution, and channels of distribution. Students participate in a computerized competitive marketing strategy simulation and/or analyze case studies.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Spring*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 111 - Small Business Marketing**
*Description:* The success of the small business marketer is challenged by large multinational corporations. This course explores how to meet these challenges and overcome the obstacles presented in the current marketing environment. Particular emphasis is placed on the development of guerrilla marketing techniques that small business enterprises can employ. Topics include: building a powerful marketing plan, using e-commerce, building a competitive advantage, recognizing cultural diversity, integrating marketing and pricing strategies, choosing the right location and layout, and using small business marketing plans for globalization.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Spring, Summer*
*Courses Hours: 3*
*Department: Marketing & Retailing*

**MKT 112 - Small Business Marketing**
*Description:* An overview of the processes and procedures of consumer research, segmentation of the American market according to demographic and psychological data. A description of the consumer movement and its impact on the marketing of goods and services to the American consumer will be covered.
*SUNY GEN ED-n/a; NCC GEN ED-n/a*
*Offered: Fall, Spring*
MSC 112 - Anatomy for Embalmers I
Department: Mortuary Science
Description: The first of two semesters covering human anatomy and physiology. Discussions of cells, tissues, organs, organ systems, the integument and detailed examination of the skeletal system. The heart, lymph and blood vascular systems are introduced. (2 lecture hours, 2 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Summer
Credit Hours: 3

MSC 124 - Anatomy for Embalmers II
Prerequisites: MSC 124.
Description: Detailed continuation of angiology, splanchnology-digestive, excretory and respiratory systems, including selected regions of the muscular system. The nervous, endocrine and reproductive systems are discussed. (2 lecture hours, 2 laboratory hours) Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

MSC 235 - Anatomy for Embalmers II
Prerequisites: MSC 124.
Description: The practical application of modeling technique and cosmetology to restore facial features damaged by trauma and disease. (2 lecture hours, 2 laboratory hours) Approximate cost of supplies: $25. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

MSC 236 - Embalming Theory I
Department: Mortuary Science
Description: Lectures dealing with the basic principles and techniques of the embalming process.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

MSC 237 - Embalming Laboratory I
Prerequisites: MSC 112, MSC 124 and MSC 236.
Corequisites: MSC 236.
Description: Clinical experience in embalming processes taught at Bellevue Hospital in New York City. (4 laboratory hours) Approximate cost of supplies: $95. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Summer
Credit Hours: 1.5

MSC 241 - Restorative Art
Department: Mortuary Science
Description: The practical application of materials are used to illustrate these processes. (2 lecture hours, 2 laboratory hours)
SUNY GEN ED-n/a; NCC GEN ED-n/a
Laboratory fee applies.
Credit Hours: 3

MSC 238 - Pathology
Prerequisites: MSC 124.
Description: Discussion of pathological changes as related to disease process and the effects of physical as well as chemical trauma on the human body. Post-mortem visual materials are used to illustrate these processes. (2 lecture hours, 2 laboratory hours)
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 3

MSC 245 - Funeral Directing with Practicum
Prerequisites: MSC 237.
Description: The practical application of modeling technique and cosmetology to restore facial features damaged by trauma and disease. (2 lecture hours, 2 laboratory hours) Approximate cost of supplies: $25. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 3
MUS 000 - Applied Music Master Class
Description: A weekly performance class. Specifics of solo and ensemble performance practice are discussed. Studio performances by students, faculty and visiting artists and ensemble experiences (if appropriate) are given. (1 hour).
Offered: Fall, Spring
Credit Hours: 0
Department: Music

MUS 037 - Preparatory Sight-Singing
Description: Required course for students who wish to major in music but do not meet the Department's requirements. Pitch matching, sight-singing of simple diatonic melodies, concentrated work on rhythm, beginning melodic and rhythmic dictation. SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Music

MUS 041 - Preparatory Voice I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 042 - Preparatory Voice II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 043 - Preparatory Piano I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 044 - Preparatory Piano II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 045 - Preparatory Flute I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 046 - Preparatory Flute II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 047 - Preparatory Oboe I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 048 - Preparatory Oboe II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 049 - Preparatory Clarinet I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 050 - Preparatory Clarinet II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 051 - Preparatory Bassoon I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 052 - Preparatory Bassoon II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 053 - Preparatory Saxophone I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 054 - Preparatory Saxophone II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 055 - Preparatory French Horn I
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 056 - Preparatory French Horn II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music
<table>
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<tr>
<th>Course Code</th>
<th>Department</th>
<th>Description</th>
<th>Credit Hours</th>
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<tr>
<td>MUS 057</td>
<td>Music</td>
<td>Preparatory Trumpet I</td>
<td>2</td>
<td>Fall, Spring</td>
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<td>MUS 058</td>
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<td>Preparatory Electric Bass I</td>
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<td>Fall, Spring</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

MUS 082 - Preparatory Electric Bass II
Description: SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 100 - Listening to Music
Description: Basic concepts and development of listening perception. Compositions to be discussed include vocal and instrumental works of the 18th, 19th and 20th centuries selected to show the development of Western musical art. A requirement for the course is that students must attend concerts, one of which must be at a major concert hall in the metropolitan area, during the semester. This course cannot be applied to a degree in music.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Music

MUS 101 - Rudiments of Music
Description: Notation, clefs, key signatures, major and minor scales, meter signatures, intervals. The course cannot be applied to a music degree. Required course for students who wish to major in music but do not meet the Department's entrance requirements. A grade of B or higher is required of prospective music majors.
SUNY GND-GART; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Music

MUS 102 - Beginning Piano
Description: A course designed for beginners only. Classes have a maximum of 12 students using electronic pianos. Areas covered include piano technique, music reading, playing by ear, improvisation and harmonization. Owning a piano is desirable but not essential, since the Music Department offers practice facilities. (Students may be required to trim fingernails.) Students are required to provide headphones.
SUNY GEN ED-GART; NCC GEN ED-HUM, FAPA
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Music

MUS 103 - Beginning Guitar
Description: A course designed for beginners only. Classes have a maximum of 15 students. Obtaining an acoustic instrument is the student's responsibility, since the College does not provide guitars for student use. Areas covered include guitar technique, developing concepts of melody, harmony and rhythm particularly in providing accompaniments for folk singing. (Students may be required to trim fingernails.)
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Music

MUS 104 - Introduction to Music Literature
Prerequisites: Successful completion of music placement examination.
Description: An exploration into the expressive, formal and aesthetic qualities of music. A survey of the development of musical style through the study of representative works from each historical period.
SUNY GEN ED-GART, GHUM, GWEH; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 105 - Opera Appreciation
Description: Introduction to opera as an art form through the study of its musical, dramatic and stylistic development from 1600 to the present. Attendance at an opera performance required. Open to all students.
SUNY EN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 106 - The Symphony
Description: Introduction to the symphony as an art form through the study of its musical and stylistic development from the 18th century to the present. Attendance at a symphony orchestra concert is required. Open to all students.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 107 - Contemporary Music
Description: Introduction to 20th-century concert music. Important works will be studied and emphasis placed on the relationship between contemporary music and other aspects of the contemporary world. Concert attendance may be required. Open to all students.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, GLNW, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 108 - Folk Music
Description: Folk music in Western culture. Consideration will be given to the function of folk music as illustrated through specific examples, with attention to research methodology used in the field of folk music. Open to all students.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 109 - Orchestra I
Description: This is the first course in the MUS 109-MUS 110 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 110 - Orchestra II
Description: This is the second course in the MUS 109-MUS 110 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 111 - Freshman Chorus I
Description: This is the first course in the MUS 111-MUS 112 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 112 - Freshman Chorus II
Description: This is the second course in the MUS 111-MUS 112 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 113 - Band I
Description: This is the first course in the MUS 113-MUS 114 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Music
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 114 - Band II
Description: This is the second course in the MUS 113-MUS 114 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 115 - Jazz Ensemble I
Description: This is the first course in the MUS 115-MUS 116 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 116 - Jazz Ensemble II
Description: This is the second course in the MUS 115-MUS 116 sequence. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 117 - Elements of Music I
Prerequisites: MUS 101 - B or successful completion of Music Department placement.
Corequisites: MUS 127
Description: This is the first course in the MUS 117-MUS 118 sequence. Introduction to diatonic harmony and the concept of 4-part voice-leading using primary triads and inversions; non-harmonic tones.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 118 - Elements of Music II
Prerequisites: MUS 117 - Minimum grade of C or successful completion of advanced theory placement examination.
Corequisites: MUS 128.
Description: This is the second course in the MUS 117-MUS 118 sequence. Continuation of diatonic harmony and voice-leading; inclusion of secondary triads and inversions, sequential harmonic patterns. Greater emphasis on melodic-contrapuntal development.
Examination of basic principles of musical organization through analysis.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 123 - Chamber Music I
Description: This is the first course in the MUS 123-MUS 124 sequence. Rehearsal and performance of music for small instrument ensembles (duos, trios, quartets, etc.) Open to all students by audition. Contact Music Department. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 124 - Chamber Music II
Description: This is the second course in the MUS 123-MUS 124 sequence. Rehearsal and performance of music for small instrument ensembles (duos, trios, quartets, etc.) Open to all students by audition. Contact Music Department. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 125 - Vocal Ensemble I
Description: This is the first course in the MUS 125-MUS 126 sequence. Open to all students by audition. Permission of instructor required. (3 hours)
AUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 126 - Vocal Ensemble II
Description: This is the second course in the MUS 125-MUS 126 sequence. Open to all students by audition. Permission of instructor required. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 127 - Keyboard Harmony I
Corequisites: MUS 117.
Description: This is the first course in the MUS 127-MUS 128 sequence. Parallels MUS 117 with emphasis on keyboard and sight-singing skills.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 128 - Keyboard Harmony II
Prerequisites: Completion of MUS 127. Minimum grade of C is required.
Corequisites: MUS 118.
Description: This is the second course in the MUS 127-MUS 128 sequence. Parallels MUS 118 with emphasis on keyboard skills.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 129 - African American Ensemble I
Description: (Dual listed with AFR 150) This is the first course in the MUS 129-MUS 130 sequence. Participation in the production, rehearsal and performance of the African American Choral Ensemble productions. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 130 - African American Choral Ensemble II
Description: (Dual listed with AFR 151) This is the second course in the MUS 129-MUS 130 sequence. Participation in the production, rehearsal and performance of the African American Choral Ensemble productions. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 132 - Music for Early Childhood Education
Prerequisites: Teacher Education Transfer Program students or permission of Chairperson.
Description: Previous music background unnecessary. Pitch notation, rhythmic and singing activities. Practical instruction on such instruments as autoharp, guitar, recorder, piano, melodic and rhythm instruments. Course cannot be applied to a degree in music. (3 hours)
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Music
MUS 133 - Intermediate Piano
Prerequisites: MUS 102 or permission of instructor.
Description: Course designed for the intermediate piano student. Continuation of MUS 102 with more advanced study of piano technique, selected repertoire, sight-reading, playing by ear, harmonization and improvisation. Owning a piano is desirable but not essential since the Music Department offers practice facilities.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 134 - Intermediate Folk Guitar
Prerequisites: MUS 103 or permission of instructor.
Description: Guitar technique, transposition, finger picking, accompaniment styles. Obtaining an acoustic instrument is the student's responsibility.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 135 - Rock Music: Mirror of Change
Description: A study of cultural changes in American and English postwar society as expressed in the development of rock music. Concert attendance required.
SUNY GEN ED-GHUM, GART; NCC GEN ED-PLDI, HUM, WESH
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 3
Department: Music

MUS 136 - Beginning Voice Class
Description: Basics of voice technique, song preparation, repertoire and stage department. Areas to be covered include breathing, vocal support and placement, diction, rudiments of note reading, memorization techniques, and aspects of style and stage presence. Open to all students.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 137 - Sight-Singing I
Prerequisites: MUS 037 or successful completion of Music Department placement examination.
Description: Sight-singing and dictation skills I. The singing at sight of simple diatonic melodies with correct pitch, rhythm and solfege syllables; simple melodic, rhythmic and harmonic dictation.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 138 - Sight-Singing II
Prerequisites: MUS 137. Minimum grade of C required. Sight singing and dictation skills II.
Description: Continuation of MUS 137. Sight-singing of diatonic melodies with introduction of chromatic tones; dictation including 2-part counterpoint and simple chorale-style diatonic progressions.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 141 - Voice I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 142 - Voice II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 143 - Piano I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 144 - Piano II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 145 - Flute I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 146 - Flute II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 147 - Oboe I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 148 - Oboe II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 149 - Clarinet I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 150 - Clarinet II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 151 - Bassoon I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 152 - Bassoon II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 153 - Saxophone I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 154 - Saxophone II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
COURSE DESCRIPTIONS

**Department:** Music

**MUS 155 - French Horn I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 156 - French Horn II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 157 - Trumpet I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 158 - Trumpet II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 159 - Trombone I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 160 - Trombone II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 161 - Baritone I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 162 - Baritone II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 163 - Tuba I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 164 - Tuba II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 165 - Percussion I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 166 - Percussion II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 167 - Violin I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 168 - Violin II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 169 - Viola I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 170 - Viola II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 171 - Violoncello I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 172 - Violoncello II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 173 - String Bass I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 174 - String Bass II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 175 - Classical Guitar I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 176 - Classical Guitar II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 177 - Organ I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 178 - Organ II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 179 - Harp I**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2

**MUS 180 - Harp II**
*Description:* SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
*Offered:* Fall, Spring
*Credt Hours:* 2
COURSE DESCRIPTIONS

Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 181 - Electric Bass I
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 182 - Electric Bass II
Description: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 183 - Percussion Ensemble I
Description: This is the first course in the MUS 183-MUS 184 sequence. Rehearsal and performance of works for percussion ensemble. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 184 - Percussion Ensemble II
Description: This is the second course in the MUS 183-MUS 184 sequence. Rehearsal and performance of works for percussion ensemble. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 185 - Guitar Ensemble I
Description: This is the first course in the MUS 185-MUS 186 sequence. Rehearsal and performance of duos, trios and larger ensemble works for multiple guitars. Limited to classical guitar students in music degree program. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 186 - Guitar Ensemble II
Description: This is the second course in the MUS 185-MUS 186 sequence. Rehearsal and performance of duos, trios and larger ensemble works for multiple guitars. Limited to classical guitar students in music degree program. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 187 - Jazz Improvisation Ensemble I
Description: This is the first course in the MUS 187-MUS 188 sequence. Rehearsal and performance of works for small jazz ensembles with an emphasis on improvisatory techniques and skills. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 188 - Jazz Improvisation Ensemble II
Description: This is the second course in the MUS 187-MUS 188 sequence. Rehearsal and performance of works for small jazz ensembles with an emphasis on improvisatory techniques and skills. Open to all students. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music

MUS 189 - Opera Workshop I
Prerequisites: MUS 141 or permission of instructor.
Description: This is the first course in the MUS 189-MUS 190 sequence. Audition required. Rehearsal and performance of scenes (arias, duets and larger ensemble pieces) from operas, operettas and other works for the musical stage.
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 190 - Opera Workshop II
Prerequisites: MUS 141 or permission of instructor.
Description: This is the second course in the MUS 189-MUS 190 sequence. Audition required. Rehearsal and performance of scenes (arias, duets and larger ensemble pieces) from operas, operettas and other works for the musical stage.
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music

MUS 201 - History of Western Music I
Prerequisites: ENG 100 or ENG 101, MUS 104 (C) or better or permission of Chairperson.
Description: An in-depth history of Western art music from its Greco-Roman origins through the Renaissance. Study of important musical genres and changes in musical style. Analysis of representative works of the Middle Ages and Renaissance. Study of the development of music notation and musical instruments. SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 203 - Song Writing
Description: Student acquires enough skills to write 32-bar song with text.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 204 - History of Western Music II
Prerequisites: ENG 100 or ENG 101, MUS 104 (C) or permission of Chairperson.
Description: An in-depth history of Western art music from the Baroque period through the Classical era. Study of important musical genres and changes in musical style. Analysis of representative works by major 17th- and 18th-century composers.
SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 205 - African American Music
Description: (Dual listed with AFR 155)
In addition to an evaluation study of the basic musical materials of Black music and its effects on other music forms, an historical/philosophical/political analysis and survey will be included.
SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH, PLDI
Offered: Fall, Spring
Credit Hours: 3
Department: Music

MUS 206 - Modern Arranging
Description: Pre or Concurrent Requisites: MUS 217.
Investigates the various arranging techniques and styles used in modern jazz writing. Included are the study of ranges, scores,
Course Descriptions

MUS 207 - Perspective on Jazz
Description: (Dual listed with AFR 152) This course is designed to explore the inception and evolution of jazz, its styles and influence on other musical types. Directed listening activities required.
Prerequisites: SUNY GEN ED-GART; NCC GEN ED-FAPA, MUS 211-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 208 - History of Western Music III
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, MUS 209-MUS 210 sequence.
Description: An in-depth history of Western art music from the Romantic period through the contemporary era. Study of important musical genres and changes in musical style. Analysis of representative works by major 19th- and 21st-century composers.
Prerequisites: SUNY GEN ED-GART; NCC GEN ED-FAPA, MUS 209-MUS 210 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 209 - Orchestra III
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, MUS 211-MUS 212 sequence.
Description: This is the first course in the MUS 209-MUS 210 sequence.
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 210 - Orchestra IV
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Description: This is the second course in the MUS 209-MUS 210 sequence.
Prerequisites: MUS 211-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 211 - Chorus III
Prerequisites: MUS 112.
Description: This is the first course in the MUS 211-MUS 212 sequence.
Prerequisites: MUS 212-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 212 - Chorus IV
Prerequisites: MUS 112.
Description: This is the second course in the MUS 211-MUS 212 sequence.
Prerequisites: MUS 212-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 213 - Band III
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, MUS 211-MUS 212 sequence.
Description: This is the first course in the MUS 213-MUS 214 sequence.
Prerequisites: MUS 212-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 214 - Band IV
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, MUS 211-MUS 212 sequence.
Description: This is the second course in the MUS 213-MUS 214 sequence.
Prerequisites: MUS 212-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 215 - Jazz Ensemble III
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, MUS 211-MUS 212 sequence.
Description: This is the first course in the MUS 215-MUS 216 sequence.
Prerequisites: MUS 212-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 216 - Jazz Ensemble IV
Prerequisites: SUNY GEN ED-n/a; NCC GEN ED-FAPA, MUS 211-MUS 212 sequence.
Description: This is the second course in the MUS 215-MUS 216 sequence.
Prerequisites: MUS 212-MUS 212 sequence.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 217 - Elements of Music III
Prerequisites: MUS 118. Minimum grade of C required.
Corequisites: MUS 227.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 218 - Elements of Music IV
Prerequisites: MUS 118. Minimum grade of C required.
Corequisites: MUS 228.
Description: Chromatic harmony: analysis of 19th-century harmonic style correlated with writing and musical dictation. Voice-leading, expanded tonality, and chromatic and enharmonic modulation.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 223 - Chamber Music III
Prerequisites: MUS 124.
Description: This is the first course in the MUS 223-MUS 224 sequence. Rehearsal and performance of music for small instrumental ensembles (duos, trios, quartets, etc.). (3 hours)
Prerequisites: MUS 124.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 224 - Chamber of Music IV
Prerequisites: MUS 124.
Description: This is the second course in the MUS 223-MUS 224 sequence. Rehearsal and performance of music for small instrumental ensembles (duos, trios, quartets, etc.). (3 hours)
Prerequisites: MUS 124.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 225 - Vocal Ensemble III
Prerequisites: MUS 126.
Description: This is the first course in the MUS 225-MUS 226 sequence.
Prerequisites: MUS 126.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

MUS 226 - Vocal Ensemble IV
Prerequisites: MUS 126.
Description: Analysis of Bach 371 Chorale harmonizations with writing and musical dictation; voice leading, secondary seventh chords, secondary dominants and modulations to closely related keys. (3 hours)
Prerequisites: MUS 126.
Department: Music
Credit Hours: 3
Offered: Fall, Spring

Nassau Community College: https://collegecatalog.ncc.edu/current
Description: This is the second course in the MUS 225-MUS 226 sequence.
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 227 - Keyboard Harmony III
Prerequisites: MUS 128. Minimum grade of C required.
Corequisites: MUS 217.
Description: Parallels MUS 217 with emphasis on keyboard skills.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 228 - Keyboard Harmony IV
Prerequisites: MUS 227.
Corequisites: MUS 218
Description: Parallels MUS 218 with emphasis on keyboard skills.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 229 - African American Choral Ensemble III
Description: (Dual listed with AFR 153)
This is the first course in the MUS 229-MUS 230 sequence. Participation in the production, rehearsal and performance of the African American Choral Ensemble productions. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 230 - African American Choral Ensemble IV
Description: (Dual listed with AFR 154)
This is the second course in the MUS 229-MUS 230 sequence. Participation in the production, rehearsal and performance of the African American choral ensemble performances. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 237 - Sight-Singing III
Prerequisites: MUS 138. Minimum grade of C required.
Description: Sight-singing and dictation III. Continuation of MUS 138. More difficult sight-singing, including melodies which modulate to closely related keys. More difficult dictation, including secondary sevenths, secondary dominants and modulations to closely related keys.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 238 - Sight-Singing IV
Prerequisites: MUS 237. Minimum grade of C required.
Description: Sight-singing and dictation IV. Continuation of MUS 237. More difficult sight-singing and dictation including 20th-century idioms; music from a variety of mediums including vocal, instrumental, chamber and orchestral works.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 241 - Voice III
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 242 - Voice IV
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 243 - Piano III
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 244 - Piano IV
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 245 - Flute III
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 246 - Flute IV
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 247 - Oboe III
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 248 - Oboe IV
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 249 - Clarinet III
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 250 - Clarinet IV
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 251 - Bassoon III
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 252 - Bassoon IV
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 253 - Saxophone III
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 254 - Saxophone IV
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
**MUS 255 - French Horn III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 256 - French Horn IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 257 - Trumpet III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 258 - Trumpet IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 259 - Trombone III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 260 - Trombone IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 261 - Baritone III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 262 - Baritone IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 263 - Tuba III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 264 - Tuba IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 265 - Percussion III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 266 - Percussion IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 267 - Violin III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 268 - Violin IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 269 - Viola III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 270 - Viola IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 271 - Violoncello III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 272 - Violoncello IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 273 - String Bass III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 274 - String Bass IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 275 - Classical Guitar III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 2

**MUS 276 - Classical Guitar IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 277 - Organ III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 278 - Organ IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 279 - Harp III**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2

**MUS 280 - Harp IV**
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
COURSE DESCRIPTIONS

Description: SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 281 - Electric Bass III
Description: This is the second course in the MUS 283-MUS 284 sequence. Rehearsal and performance of works for percussion ensemble. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 282 - Electric Bass IV
Description: This is the first course in the MUS 283-MUS 284 sequence. Rehearsal and performance of works for percussion ensemble. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 2
Department: Music
MUS 283 - Percussion Ensemble III
Prerequisites: MUS 184.
Description: This is the first course in the MUS 283-MUS 284 sequence. Rehearsal and performance of works for percussion ensemble. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 284 - Percussion Ensemble IV
Prerequisites: MUS 184.
Description: This is the second course in the MUS 283-MUS 284 sequence. Rehearsal and performance of works for percussion ensemble. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 285 - Guitar Ensemble III
Prerequisites: MUS 186.
Description: This is the first course in the MUS 285-MUS 286 sequence. Rehearsal and performance of duos, trios, larger ensemble works for multiple guitars. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUS 286 - Guitar Ensemble IV
Prerequisites: MUS 186.
Description: This is the second course in the MUS 285-MUS 286 sequence. Rehearsal and performance of duos, trios, larger ensemble works for multiple guitars. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 1
Department: Music
MUT 100 - Introduction to Digital Audio Workstation
Prerequisites: None.
Description: This course introduces students to the techniques of recording music using a Digital Audio Workstation (DAW). Students will learn skills for creating music using hardware and software. Emphasis will be placed on editing audio, software instruments, plugins, microphones and mixing. FAPA; HUM
Offered: Please contact Department for course offering
Credit Hours: 3
Department: Music
NCC 101
NCC 101 - Freshman Seminar: The College Experience
Description: An introduction to the world of higher education. The goal of the course is to give students the skills, insights, and knowledge to make the most of their college experience.
Among the topics covered:
• The philosophy, mission, and goals of higher education;
• The role of campus resources (labs, library, counseling services, extracurricular activities, etc.) in the educational process;
• Listening, note-taking, time management and study skills;
• Faculty and student expectations and responsibilities;
• Academic disciplines and their relationship to careers; and
• The college community as a mirror of cultural diversity.

The course will also help students develop sufficient motivation to pursue their studies as active, responsible learners.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Critical Reading & Academic Advisement
Nutrition
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<th>COURSE DESCRIPTIONS</th>
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**NTR 158 - Social and Cultural Aspects of Food**

**Description:** This course is an exploration of the social, cultural and religious aspects of food in different countries and nationalities with emphasis on ethnic groups in the United States. The food habits of various groups, identification of ethnic foods and terminology, dietary rationales, and the economics of dietary intake will be investigated. The emphasis of this course is on developing cultural competency and sensitivity to various ethnic groups. It includes cultural foods taste testing and nutritional counseling of people from various cultures.

SUNY GEN ED-n/a; NCC GEN ED-PLDI
Offered: Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Hospitality Business

**NTR 183 - Dietary Management**

**Description:** This course fulfills the requirements for diet therapy and nutritional planning as designed by the Dietary Managers Association for certification as a Dietary Manager. It includes one hundred and fifty hours of field experience in a clinical/institutional setting. Topics include: concepts of diet therapy, medical terminology, institutional protocol, nutritional planning in a health care setting and the Dietary Manager's role in nutritional assessment and management.

SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 3

**Department:** Hospitality Business

**NTR 184 - Dietary Management Field Experience**

**Description:** Students work in selected healthcare facilities (hospitals / nursing homes) to gain experience and expertise in the field of dietary management by implementing concepts and practices acquired in the classroom. Students must complete a one hundred and fifty hour internship to be eligible to sit for the Dietary Managers Certification Exam. Coursework includes written and oral assignments and exams.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Summer

**Credit Hours:** 3

**Department:** Hospitality Business

**NTR 192 - Principles of Food Science**

**Description:** This course is designed to give students a fundamental understanding of the composition of foods, their nutritional impact and the chemical, physical and biological interactions that occur during production and processing of food products. The impact of ingredient interactions, substitutions, formulation and storage will be evaluated using sensory, physical and scientific methodology to determine quantitative and qualitative attributes.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Hospitality Business

**NTR 195 - Nutrition through the Life Cycle**

**Description:** This course stresses the practical application of nutritional concepts from pregnancy and birth through old age. Strategies for handling nutrition related problems, including infant feeding, introduction of solid foods, picky eaters, obesity issues, eating disorders, the use of nutritional supplements, sports nutrition, food guides and standards and label reading are among the subjects investigated.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Hospitality Business

**NTR 198 - Nutrition for the Healthcare Professional**

**Description:** This course emphasizes general issues in the nutritional care and assessment of patients utilized by healthcare professionals in healthcare facilities. Topics include: Introduction to Nutrients, Digestion, Absorption and Metabolism of Nutrients, Life Cycles, Nutritional Assessment of Patients, Introduction to Diet Therapy and Nutrition Support Practices.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Hospitality Business

**NTR 201 - Concepts of Nutrition**

**Description:** Pre or Concurrent Requisites: CHE 131

This is the first course of a two-course sequence designed for Food and Nutrition majors. “Concepts in Nutrition” will cover nutrition fundamentals, dietary guidelines and standards, as well as an in-depth view of the six nutrients required for normal healthy metabolism. Emphasis will be placed on nutrient digestion, absorption, transport, and functions in metabolism. An overview of phytochemicals and nutrient interactions will also be included.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Nursing

**NTR 202 - Nutrition Applications**

**Prerequisites:** NTR 201

**Description:** Pre or Concurrent Requisites: CHE 131

NTR 202 is the second course of a two-course sequence for Food and Nutrition majors. This course covers the application of nutrition concepts throughout the life cycles. Selecting, planning and assessing adequate diets for pregnant women, infants, children, adolescents, middle-aged and the elderly will be the focus of this course. Weight management and Eating Disorders will be discussed, Research techniques to be demonstrated.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

**Credit Hours:** 3

**Department:** Hospitality Business

**NUR 100 - Introduction to Associate Degree Nursing**

**Description:** This course is designed to acquaint the student who enters the nursing program at an advanced level with the philosophy and conceptual framework of Associate degree nursing. It will also introduce the role of the professional nurse and the problem-solving process as it relates to formulating a nursing diagnosis. Open to advanced standing and articulation students or by permission of the Chairperson. This course is part of the required Nursing curriculum for students receiving advanced standing in the required nursing courses. 1 Credit.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

**Credit Hours:** 1

**Department:** Nursing

**NUR 101 - Fundamental of Nursing**

**Description:** Pre or Concurrent Requisites: AHS 131, ENG 100 or ENG 101, PSY 203

This introductory course is planned to provide students with content fundamental to nursing practice and to nursing as a profession. It is designed to lay the foundation for all subsequent courses. The commonalities of nursing care are emphasized. The nursing process and the core competencies, as critical thinking tools, are utilized to provide direct patient care. The student is introduced to the concept of Evidence -based practice and educational and practical technologies used in
health care settings. Experiences are provided in both on-campus laboratory, clinical settings and Service Learning Activities. This course will consist of 3 hours of Lecture and 12 Clinical hours/week - 6 hours hospital based and 6 hours laboratory based. Credit Hours: 7 - 3 credits lecture; 4 credits clinical. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 7

Department: Nursing

NUR 105 - Introduction to Medical Surgical Nursing

Prerequisites: NUR 101 or equivalent, AHS 131, ENG 100 or ENG 101, PSY 203

Description: Concurrent Requisites: AHS 132, MAT 102

This course is designed to further develop the student’s skill in utilizing the nursing process and core competencies as critical thinking tools for identifying health problems and providing comprehensive patient care in the medical-surgical setting. The student will integrate theory and skills learned and will be introduced to nursing care of patients in the psychiatric settings. The student continues to develop the concept of Evidence-based practice along with developing the skills necessary to use Educational and Practical technologies found in health care settings. Experiences are planned in on-campus laboratory and in acute, sub-acute care settings and Service Learning Activities. This course will consist of 4 hours of Lecture, 13 Clinical hours/week - 8.5 hours hospital based, 4.5 hours laboratory based. Credit Hours: 8 - 4 credits lecture; 4 credits clinical. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 8

Department: Nursing

NUR 203 - Comprehensive Nursing Care I

Prerequisites: NUR 105 with a C+ or better grade, AHS 131, AHS 132, ENG 100 or ENG 101, MAT 102, PSY 203.

Description: Pre or Concurrent Requisites: AHS 202, PSY 216.

This course is concerned with the student’s continued growth of knowledge in identifying health problems across the life span. Use of the nursing process and core competencies as critical thinking tools is applied to more complex patient situations. The student will integrate theory and skills learned in previous semesters to provide nursing care to pediatric populations. Sociocultural theory related to the family and community as well as group processes are explored. Evidence-based practice is emphasized in planning nursing care for individuals and groups of patients. Educational and practical technological skills are enhanced in the on-campus laboratory and in the clinical agencies. Experiences are provided in the on-campus laboratory and a variety of pediatric and medical/surgical care, community settings and Service Learning Activities. This course will consist of 4 hours of Lecture, 13 Clinical hours/week - 8.5 hours hospital based, 4.5 hours laboratory based. Credit Hours: 8 - 4 credits lecture; 4 credits clinical. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 8

Department: Nursing

NUR 204 - Comprehensive Nursing Care II

Prerequisites: NUR 105, NUR 203, AHS 131, AHS 132, AHS 202, ENG 100 or ENG 101, MAT 102, PSY 203, PSY 216.

Description: Concurrent Requisites: PHI 110 and two approved 3 credit Elective courses; taking one course in two different categories listed: Western Civilization, Other World Civilizations, American History, Foreign Language, The Arts.

This course provides the student with theory related to patient responses to complex health problems throughout the life span. Opportunity is provided for increasing skill in establishing nursing priorities and in utilizing the nursing process and the core competencies as critical thinking tools to provide nursing care for groups of patients. There are increased opportunities for patient teaching, discharge planning, and working collaboratively as a member of the interdisciplinary health care team. Current trends and issues in nursing practice and education are examined and the need for academic progression is emphasized. Experiences are provided in medicine, surgery, obstetrics in a variety of clinical settings and Service Learning Activities. This course will consist of 4 hours of Lecture, 13 Clinical hours/week - 8.5 hours hospital based, 4.5 hours laboratory based. Credit Hours: 8 - 4 credits lecture; 4 credits clinical. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a Offered: Fall, Spring

Credit Hours: 8

Department: Nursing

NUR 295 - Independent Study-Nursing

Description: SUNY GEN ED-n/a; NCC GEN ED-n/a

CED 109: 3

NUR 699 will not receive credit for NUR 295.

Credit Hours: 3

Department: Nursing

Physical Education

PED

PED 110 - Exercise Leadership: Muscular Strength & Conditioning

Description: This course is designed to prepare physical educators/fitness specialists to become instructors of strength and conditioning programs in school and community settings. Topics include safe and effective use of equipment, free weights, and body weight exercises to increase strength; Safety concerns, assessment, and class organization are addressed. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED Offered: Fall, Spring, Summer

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 111 - Exercise Leadership: Aerobic Conditioning

Description: This course is designed to prepare physical educators/fitness specialists to become instructors or aerobic conditioning programs in school and community settings. Topics include proper techniques, use of equipment, safety, and training concepts in the design of cardiovascular fitness classes. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED Offered: Fall, Spring, Summer

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 140 - Fundamentals of Swimming (C)

Description: Swiming SUNY GEN ED-n/a; NCC GEN ED-PED Offered: Fall

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 150 - Soccer (C)

Description: Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED Offered: Fall

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 151 - Basketball (C)

Description: Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED
COURSE DESCRIPTIONS

Offered: Spring
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 160 - Volleyball (C)
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 161 - Tennis (C)
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 164 - Badminton (C)
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 168 - Lacrosse (M)
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 171 - Tennis Skills (W)
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 172 - Golf (C)
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 176 - Fundamentals of Movement and Rhythm (C) (F)
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 181 - Volleyball
Description: Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 190 - Introduction to Physical Education
Description: Provides a basic overview of the Physical Education profession and its allied fields. A basic introduction to the philosophies, principles and objectives of the profession and its relation to the total educational environment.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3
Department: Health/Physical Ed/Recreation

PED 206 - Men's Golf I
Description: Formerly PED 312. Students who have completed PED 312 will not receive credit for PED 206. Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 208 - Men's Badminton
Description: Formerly PED 306. Students who have completed PED 306 will not receive credit for PED 208. Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 211 - Men's Racquetball
Description: Formerly PED 320. Students who have completed PED 320 will not receive credit for PED 211. Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 214 - Men's Tennis I
Description: Lab fee applies. Formerly PED 322. Students who have completed PED 322 will not receive credit for PED 214. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 215 - Men's Softball
Description: Lab fee applies. Formerly PED 334. Students who have completed PED 334 will not receive credit for PED 215. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 216 - Men's Volleyball
Description: Lab fee applies. Formerly PED 335. Students who have completed PED 335 will not receive credit for PED 216. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 217 - Men's Tennis II
Description: Lab fee applies. Students who have completed PED 324 will not receive credit for PED 217. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 218 - Men's Physical Conditioning & Weight Training
Description: Formerly PED 209/210/301/303. Students who have completed PED 209/210 and/or PED 301/303 will not receive credit for PED 218. Lab fee applies. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 226 - Women's Badminton
Description: Lab fee applies. Formerly PED 406. Students who have completed PED 406 will not receive credit for PED 226. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 227 - Women's Racquetball
Description: Lab fee applies. Formerly PED 420. Students who have completed PED 420 will not receive credit for PED 227. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 228 - Women's Tennis I
Description: Lab fee applies. Formerly PED 422. Students who have completed PED 422 will not receive credit for PED 228. 
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer

COURSE DESCRIPTIONS

PED 229 - Women's Volleyball
Description: Lab fee applies. Formerly PED 435. Students who have completed PED 435 will not receive credit for PED 229. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 232 - Women's Fitness Activity
Description: Lab fee applies. Formerly PED 401. Students who have completed PED 401 will not receive credit for PED 232. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 234 - Women's Tennis II
Prerequisites: PED 422 or PED 502
Description: Lab fee applies. Students who have completed PED 424 will not receive credit for PED 234. SUNY GEN ED-n/a; NCC GEN ED-PED
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 235 - Women's Physical Conditioning & Weight Training
Prerequisites: PED 502
Description: Lab fee applies. Formerly PED 233/403. Students who have completed PED 233 and/or PED 403 will not receive credit for PED 235. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 255 - Golf I Coed
Description: Lab fee applies. Formerly PED 512. Students who have completed PED 512 will not receive credit for PED 255. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 256 - Golf II Coed
Description: Lab fee applies. Formerly PED 514. Students who have completed PED 514 will not receive credit for PED 256. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 257 - Jogging Coed
Description: Lab fee applies. Formerly PED 253. Students who have completed PED 253 will not receive credit for PED 257. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 258 - Bowling I Coed
Description: Formerly PED 539. Students who have completed PED 539 will not receive credit for PED 258. Offered: Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 265 - Karate II Coed
Prerequisites: PED 264/657
Description: Lab fee applies. Formerly PED 568. Students who have completed PED 568 will not receive credit for PED 264. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 262 - Fundamentals of Spinning Coed
Description: This course offers the participant an individual indoor activity that has no age or fitness limitations. The use of special stationary bicycles provides the participant a fun, controlled method of developing anaerobic and aerobic strength, total body fitness as well as rhythmic coordination and balance. Formerly PED 521. Students who have completed PED 521 will not receive credit for PED 262. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Winterim, Spring
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 263 - Self Defense Coed
Description: This course is tailored for the beginner student. Formerly PED 519. Students who have completed PED 519 will not receive credit for PED 263.
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 264 - Karate I Coed
Description: The purpose of this course is to provide a basic understanding of Aiki-Jujutsu, a classical Japanese martial art. Our main focus of training will be the physical application of this art. Aspects of Aiki-Jujutsu including history, philosophies, and principles will be covered throughout the semester. No prior martial arts experience is necessary as this class is tailored for the beginner student.
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 265 - Karate II Coed
Description: Formerly PED 568. Students who have completed PED 568 will not receive credit for PED 265.
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 266 - Basic Tap Dance Coed
PED 267 - Basic Jazz Dance Coed
Description: Lab fee applies. Formerly PED 534. Students who have completed PED 534 will not receive credit for PED 267.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer
Credit Hours: 0.5
Department: Health/Physical Ed/Recreation

PED 270 - Adventure Activities Coed
Description: This course is designed to develop physical, social, emotional and intellectual growth through an adventure-based program. Activities will range from indoor games, initiative problems, trust and confidence activities, to indoor and outdoor low and high elements on rope courses. Some climbing and rappelling may also be included. Formerly PED 636. Students who have completed PED 636 will not receive credit for PED 270.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 273 - Basic Swimming I Coed
Description: Swimming and water safety instruction for the beginner and non-swimmer. This course open only to students who cannot swim 20 yards (one pool length). Basic locomotion in water and survival. (4 hours) Lab fee applies. Formerly PED 665. Students who have completed PED 665 will not receive credit for PED 273.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 274 - Basic Swimming II Coed
Description: Swimming and water safety instruction on a more advanced level. Emphasis on form and the development of the four basic strokes. (4 hours) Lab fee applies. Formerly PED 666. Students who have completed PED 666 will not receive credit for PED 274.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 275 - Water Safety Instructor Coed
Description: The purpose of this course is to train instructor candidates to successfully complete and teach American Red Cross Swimming classes – Levels 1 through 8. There will be a pretest for all prospective students, which will enable them to demonstrate their proficiency in water safety and aquatic skills. Upon successful completion of the course, all students will receive teaching Certification in water safety instruction. Lab fee applies. Formerly PED 668. Students who have completed PED 668 will not receive credit for PED 275.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 276 - Lifeguard Training
Description: The objective of this course will be to focus attention on the basic skills and knowledge required by good swimmers to properly assume the responsibilities of lifeguards and managers at swimming pools or at protected (non-surf) open water beaches. All people interested in becoming a lifeguard must possess a lifeguard training Certificate. Upon successful completion of this course the student will receive all necessary certifications for employment as a lifeguard. These Certificates include Lifeguard Training, BLS for the professional rescuer and standard first aid. (Satisfactory completion of this course will provide the student with 1 credit toward the 2 credit Physical Education requirement.) Lab fee applies. Formerly PED 670. Students who have completed PED 670 will not receive credit for PED 276.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring
Credit Hours: 4
Department: Health/Physical Ed/Recreation

PED 277 - Circus Arts Coed
Description: This course is designed to introduce the student to the basic skills of the circus. Physical Education Majors will increase their repertoire of skills in terms of eye-hand coordination, balance and learning skill hierarchy. Lab fee applies. Formerly PED 622. Students who have completed PED 622 will not receive credit for PED 277.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 278 - Sailing Coed
Description: Lab fee applies. Formerly PED 501. Students who have completed PED 501 will not receive credit for PED 278.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 279 - Adapted I Coed
Description: For students who have medical limitations. All students registering for this course must have prior approval of College nurse. (3 hours) Lab fee applies. Formerly PED 601. Students who have completed PED 601 will not receive credit for PED 279.
SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 280 - Adapted II Coed
Description: For students who have medical limitations. All students registering for this course must have prior approval from the College nurse. Formerly PED 602. Students who have completed PED 602 will not receive credit for PED 280. (3 hours) Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED
Offered: Fall, Spring, Summer
Credit Hours: 1
Department: Health/Physical Ed/Recreation

PED 282 - Outdoor Living: Wilderness, Canoeing and Camping
Description: This course is designed to provide students with practical experiences
COURSE DESCRIPTIONS

leading to an expanded appreciation of the outdoors. A two-night stay field trip experience and student fees are required.

Students who have completed PED 634 will not receive credit for PED 282.

SUNY GEN ED-n/a; NCC GEN ED-PED

Offered: Fall, Spring, Summer

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 283 - Social Dance/Latin Rhythms

Description: Formeryl PED 281/527. Students who have completed PED 281 and/or PED 527 will not receive credit for PED 283. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED

Offered: Fall, Spring

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 284 - Cardio & The Core Coed

Description: The purpose of this course is to provide education and instruction on the concepts and components of fitness. Demonstrations of correct form, equipment set up, and safe and appropriate techniques will be implemented. Materials on current topics including, nutrition, body composition, heart rate training zones and risk factors heart disease will be provided. Lab fee applies. Formerly PED 401/232. Students who have completed PED 401 or PED 232 will not receive credit for PED 284.

SUNY GEN ED-n/a; NCC GEN ED-PED

Offered: Fall, Spring

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 285 - Yoga

Description: The purpose of this course is to provide education and instruction on the basic principles and practices of Yoga. The course is designed to introduce Yoga on a beginner level and offer opportunities to expand knowledge and applications of skills to students. The emphasis of the class will be connecting mind and body through Asanas (postures), Vinyasa (flows), and Pranayama (breathing techniques). This class will help increase flexibility, and improve health relaxation. Lab fee applies. Students who have completed PED 551 or PED 261 will not receive credit for PED 285.

SUNY GEN ED-n/a; NCC GEN ED-PED

Offered: Fall, Spring

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 286 - Fundamentals of Spinning

Description: This course offers the participant an individual indoor activity that has no age or fitness limitations. The use of special stationary bicycles provides the participant a fun, controlled method of developing anaerobic and aerobic strength, total body fitness as well as rhythmic coordination and balance. Formerly PED 521/262. Students who have completed PED 521 and PED 262 will not receive credit for PED 286.

SUNY GEN ED-n/a; NCC GEN ED-PED

Offered: Fall, Winterim, Spring, Summer

Credit Hours: 1

Department: Health/Physical Ed/Recreation

PED 291 - Personal Health for Physical Education and Health Majors

Description: Identification and evaluation of sound health principles, personally and professionally. The design of this course provides examination and exploration of health issues for daily living, as well as pedagogical techniques for future health and Physical Education teachers.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Offered: Spring

Credit Hours: 3

Department: Health/Physical Ed/Recreation

Philosophy

PHI

PHI 101 - Introduction to Philosophy

Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: Recommended as a fundamental humanities course for all students, a traditional introduction to philosophy with emphasis on analyzing and contrasting the viewpoints of certain major philosophers on the nature of man and ultimate reality; the problem of knowledge; the criteria of moral judgment; and the basic goals of human life. The relevance of the great philosophers to present-day issues is stressed.

SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Philosophy

PHI 102 - Contemporary Philosophy

Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: PHI 101 is not a prerequisite. This course introduces students to philosophy through contemporary texts. Readings focus on the problem of meaning to explore analytic and continental philosophy. Philosophers studied include Sartre, Wittgenstein, Arendt, Cassirer, Dewey, Russell and others.

SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH

Offered: Fall, Spring

Credit Hours: 3

Department: Philosophy

PHI 103 - Critical Thinking

Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: This course stresses sensitivity to form as it teaches the student to identify and evaluate different types of arguments found in ordinary language. Basic concepts include deduction, induction, soundness, validity, invalidity, formal and informal fallacies, clarifying meaning, assumption identification, and causal inferences.

SUNY GEN ED-GHUM; NCC GEN ED-HUM

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Philosophy

PHI 104 - Ancient and Medieval Philosophy

Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: An introduction to philosophy from an historical perspective; a systematic survey of the major philosophers from the ancient and medieval world; how they analyzed the great problems of nature, man, and society; how they were influenced by their culture and what significance they have for us today.

SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH

Offered: Fall, Spring

Credit Hours: 3

Department: Philosophy

PHI 105 - Renaissance and Modern Philosophy

Prerequisites: Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.

Description: A systematic survey of the major philosophers from the Renaissance to the beginning of the 20th century; how they analyzed the great problems of nature, man, and society; how they were influenced by their culture; and what significance they have for us today.

SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH

Offered: Fall, Spring

Credit Hours: 3

Department: Philosophy

Nassau Community College: https://collegecatalog.ncc.edu/current
COURSE DESCRIPTIONS

**Department: Philosophy**

**PHI 106 - Introduction to Ethics**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** This course introduces students to problems in moral philosophy. The class focuses on the theoretical foundations for judgments about right and wrong, good and evil, and justice and injustice. Special attention will be paid to how these theories can help us to address issues such as the death penalty, euthanasia, and terrorism.
SUNY GEN ED-n/a; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
**Credit Hours:** 3

**PHI 107 - The Philosophy of Sex & Gender**
**Prerequisites:** ENG and RDG Remedials completed.
**Description:** (Dual listed with WST 107) Many people distinguish males and females along two different dimensions: biological endowment and social role. The first dimension is labeled 'sex', the second 'gender'. this course examines the nature and development of the sex-gender distinction, its application to issues surrounding sexual equality, as well as contemporary challenges to the distinction that arise within conversations regarding intersexuality and transgenderism. The course also explores the intersection between sex, gender, and sexual desire.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI
Offered: Fall and Spring
**Credit Hours:** 3

**PHI 108 - Black Social Philosophy**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** (Dual listed with AFR 170). An examination of the social philosophy of thinkers such as Du Bois, Garvey, King and Fanon. Particular attention is paid to oppression and the struggle for self-identity. The ideals of freedom, equality, justice and community are carefully considered.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI
Offered: Fall, Spring, Summer
**Credit Hours:** 3

**PHI 110 - Biomedical Ethics**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** An inquiry into the ethical problems raised by recent biomedical advances, research and clinical practice in our 20th-century culture. Genetic research, stem cell research, abortion, human experimentation, cloning, delivery of health care services, transplantation and allocation of scarce medical services, suicide and euthanasia are the main topics to be treated.
SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
**Credit Hours:** 3

**PHI 111 - Business Ethics**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** This course explores the ethical dimensions of the conduct of business and shows how philosophical reflection can aid in the discovery of rational solutions to critical problems in the world of business and economics. By focusing on selected issues, such as individual and corporate morality, profit making and social conscience, advertising and consumerism, environmental ethics and resource development, the course highlights the conflicting interests that must be weighed in arriving at decisions of major importance to business and society. Contemporary materials and studies are utilized as well as readings from traditional philosophers.
SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Spring
**Credit Hours:** 3

**PHI 201 - Ethics and Law**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** Recommended for all students especially pertinent for pre-Law, Criminal Justice and Public Administration students, the course examines the ethical foundations and moral implications of our legal tradition. Emphasis is placed upon the analysis of key concepts of legal and philosophical importance such as justice, freedom, equality, rights, duties and property. The course utilizes readings of contemporary relevance such as recent Supreme Court decisions as well as of historical influence. Topics discussed include human rights, natural law, social justice, environmental ethics and property rights, and capital punishment among others.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
**Credit Hours:** 3

**PHI 203 - Philosophy of Art**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** A philosophic examination of the nature and value of art. Readings from major philosophers on art and its relation to religion, morals and culture in general. Specific works of art are used as illustrations.
SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH
Offered: Fall, Spring
**Credit Hours:** 3

**PHI 204 - Philosophy of Religion**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** A critical examination of the nature of religion and varieties of religious experience. Topics considered include the nature and existence of God, miracles, reason and revelation, morality and religious experience. Readings are drawn from major philosophers and theologians.
SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring
**Credit Hours:** 3

**PHI 206 - Asian Philosophy and Religion**
**Prerequisites:** Students must have satisfied all ENG and RDG remediation requirements prior to starting the course.
**Description:** An examination of the major living Asian philosophies and religions: Hinduism, Buddhism, Zen Buddhism, Confucianism, and Taoism. The ethical, mystical and metaphysical dimensions of each are considered. Major texts from each tradition are placed in their historical contexts, read and discussed. The significance for us today is stressed.
SUNY GEN ED-GHUM; NCC GEN ED-GLNW, HUM, PLDI
Offered: Fall, Spring
**Credit Hours:** 3

**PHI 295 - Independent Study-Philosophy**
Description: Formerly PHI 699. Students who have completed PHI 699 will not receive credit for PHI 295.

Credit Hours: 3

Department: Philosophy

Physics

PHY

PHY 101 - General Physics I

Prerequisites: High School or college algebra and trigonometry or permission of the Department. Successful completion of all remedial English and remedial Reading requirements.

Description: An introductory study of Physics designed to acquaint the student with the fundamentals of kinematics, Newton's Laws of motion, circular motion and gravitation, work and energy, impulse and momentum, simple harmonic motion, temperature, heat, and thermodynamics. The topics will be developed analytically and experimentally. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 102 - General Physics II

Prerequisites: High School or college algebra and trigonometry, PHY 101 or equivalent, or the permission of the Department. Successful completion of all remedial English and remedial Reading requirements.

Description: A continuation of the introductory study of Physics designed to acquaint the student with the fundamentals of wave motion and sound, electricity and magnetism, geometrical and physical (wave) optics, and selected topics in modern physics. The topics will be developed analytically and experimentally. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 110 - Physics for Electronic Technology

Description: Pre-requisites: MAT 117

The course emphasizes an overview of the physical laws underlying selected topics in mechanics, thermodynamics, electromagnetism and optics, and modern physics. The laboratory component involves exercises that are illustrative of physical principles in these areas as well as methods of observation, measurement and data analysis. Laptop computer required. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-LSCI. Offered: Fall

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 120 - Physics for Educators

Prerequisites: Students must have a working knowledge of Algebra and Trigonometry or equivalent.

Description: This course studies natural phenomena and everyday life. Covering the fundamental laws and principles of mechanics, electricity, magnetism, sound and light, it provides a basic knowledge of the evolution of physical laws and the underlying concepts that are rapidly changing the way we live. The course material is developed descriptively and demonstrated experimentally. It includes student investigations in recitation and in lab to emphasize the experimental nature of science. Investigations will also be performed using computer software and the internet. The course will also include preparation of lesson plans, grading practices and hands-on experience in the presentation of materials.

SUNY GEN ED-n/a; NCC GEN ED-LSCI. Offered: Fall, Spring

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 122 - Engineering Physics I

Prerequisites: MAT 122

Description: Designed for students in Engineering, Physics, Mathematics, and the Sciences.

An introduction to mechanics: fundamental laws of statics, dynamics, kinematics, work, energy, power and momentum. Applied problems are an integral part of the course. (5 lecture, 3 laboratory hours) Lab fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 123 - Engineering Physics II

Prerequisites: PHY 122, MAT 123.

Description: An introduction to the topics of rotational kinematics and dynamics, elasticity, hydrostatics, hydrodynamics, harmonic motion, waves, sound, and thermodynamics. Applied problems are an integral part of this course. (5 lecture, 3 laboratory hours) Laboratory fees apply.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI, ASC

Offered: Spring

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 151 - Physics Science and Math I

Description: Pre or Concurrent Rerequisites: MAT 122.

The first semester of a two-term survey course for students who intend to study Science, Mathematics or Computer Science at four-year institutions that require a calculus-based approach to physics. The topics covered during the first term are mechanics and thermodynamics. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 152 - Physics Science and Math II

Prerequisites: MAT 122 and PHY 151 or permission of Department.

Description: The second half of a calculus-based physics survey course. The topics covered are wave phenomena, electricity, magnetism, light and modern physics. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 222 - Electricity and Magnetism

Prerequisites: PHY 123.

Description: An introduction to the basic theory of electric and magnetic forces and energy associated with electric charge; electric and magnetic properties of matter, electromagnetic waves, geometric and wave properties of light. Emphasis is given to a rigorous mathematical formulation of physical principles, solution of problems, and practical applications of electric circuits in the laboratory. (5 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI. Offered: Fall

Credit Hours: 4

Department: Engineering/Physics/Tech

PHY 223 - Introduction to Modern Physics

Prerequisites: MAT 225.

Description: A survey of 20th-century theories of the atom, the nucleus, relativity, quantum properties of waves and particles, wave mechanics, spectra of hydrogen and other atoms, x-rays, the uncertainty principle, radioactive decay, conservation laws in radioactivity, transmutations. Stress is placed
POL

POL 101 - Government and Politics in the Modern World
Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: This course compares and contrasts the major forms of government found in the contemporary world: democratic, authoritarian, and totalitarian. Illustrations and examples will be drawn from both Western and non-Western countries. A basic theme of the course will be the comparative advantages of democratic forms of government over the various alternatives found around the globe today.
SUNY GEN ED-GSBS; NCC GEN ED-SBS, GLNW
Offered: Summer
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 111 - Nassau County: History and Government
Prerequisites: Completion of RDG 001
Description: (Dual listed with HIS 140).
A review of the development of what is now Nassau County from pre-Colonial times to the present day. Emphasis is placed upon the governmental-administrative structure of the county and the major problems facing urban-suburban communities. Field trips and guest speakers are utilized to complement class work.
SUNY GEN ED-GSBS; NCC GEN ED-SBS
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 205 - Introduction to American Politics
Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: An exploration of some of the significant areas and issues of contemporary American government and politics. Among the topics included are the scope of government activity in the United States today, the Constitution of the United States, and the evolution and operation of such political institutions as the Presidency, Congress, the Supreme Court and the political parties.
SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Summer
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 206 - State and Local Government
Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: An introduction to the essential principles of American state and local government, with special emphasis on New York State, New York City and its suburbs. Among the specific topics covered are Federal-state relations, state constitutions and government structures, and the key issues of contemporary state, city and county politics.
SUNY GEN ED-GSBS; NCC GEN ED-SBS
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 208 - Introduction to Public Policy
Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: An examination of the substantive issues of public policy such as taxation, welfare and poverty, military spending, energy, the environment, federalism, criminal justice, health care, education, and civil liberties. The background to each subject, the evolution of the present day governmental policy, and alternatives to present policy are presented along with evaluations of present policies. While the primary focus in on the national level, the state and local level is examined. A secondary focus is on methods, models, and the legal aspects of the policy making process.
SUNY GEN ED-GSBS; NCC GEN ED-SBS
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 209 - The U.S. Presidency
Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: A comprehensive multidimensional study of the Institution of the Presidency, its evolution politically, administratively, and legally. The causes, effects, and dilemmas of the growth and power of the executive branch and the tension between an enhanced President and the Congress constitute a key perspective.
SUNY GEN ED-GSBS; NCC GEN ED-SBS
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 260 - International Relations
Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: Basic themes of the course are the causes of war and the prospects for peace in the modern world. Among the topics covered are the nature of modern warfare and the impact of nuclear weapons, the East-West struggle, the Third World, diplomacy and espionage as instruments of foreign policy, and the search for world order through international law and the United Nations.
SUNY GEN ED-GSBS; GOWC; NCC GEN ED-SBS, GLNW
Offered: Summer
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 261 - Modern Political Ideologies
Prerequisites: Completion of RDG 001 and/ or RDG 002.
Description: A survey of the major political ideologies of the world today-fascism, communism, socialism and democracy. Selected readings from the works of Marx, Lenin, Stalin, Mao, Hitler, Mussolini, Jefferson and Locke are used to supplement class lectures. The course offers students an understanding of the political ideas that have shaped the 20th century.
SUNY GEN ED-GSBS; NCC GEN ED-SBS
Credit Hours: 3
Department: History/Poli Sci/Geography

POL 295 - Independent Study-Political Science
PORTUGUESE

POR

POR 101 - Beginning Portuguese I
Prerequisites: Satisfactory completion of ENG 001 and RDG 002.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. This course is not intended for students of Portuguese speaking background. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Fall
Credit Hours: 3
Department: Foreign Languages

POR 102 - Beginning Portuguese II
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. POR 101 or equivalent.
Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required.
SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH
Offered: Spring
Credit Hours: 3
Department: Foreign Languages

POR 295 - Independent Study-Portuguese
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM. Formerly POR 699. Students who have completed POR 699 will not receive credit for POR 295.
Credit Hours: 3
Department: Foreign Languages

SECURITY ADMINISTRATION

PSA

PSA 111 - Introduction to Security

Description: Completion of RDG 001 and ENG 001.
Description: The historic, philosophical, practical and legal bases of Security. The role of Security and the security individual in modern society, the concept of professionalism, and the relationship to public law enforcement are reviewed. A survey is made of the personnel, physical and administrative aspects of the Security field.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Criminal Justice

PSA 225 - Introduction to Emergency Management
Prerequisites: Completion of RDG 001 and ENG 001.
Description: A study of emergency management, this course provides an overview of the Department of Homeland Security's National Incident Management System (NIMS). This course examines the United States Government Interagency Domestic Terrorism Concept of Operations (CONPLAN). It emphasizes the roles of Federal, State, and Local Agencies working effectively and efficiently together to prepare for, prevent, respond to, and recover from domestic incidents, regardless of cause, size, or complexity.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Summer
Credit Hours: 3
Department: Criminal Justice

PSA 231 - Arson Investigation Safety Management OSHA (Federal and State)
Prerequisites: Completion of RDG 001 and ENG 001.
Description: A study of arson, its prevention, detection, investigation and control. The course examines occupational and environmental hazards, injuries and diseases, including toxic materials, radiation exposure, pollution and occupational diseases. OSHA, the safety enforcement agency, is reviewed, both at the Federal and state level. Its purpose and effectiveness is thoroughly analyzed. The course emphasizes the need for safety management in both the public sector and the work place. The genesis of workers' compensation law, its effectiveness, and present day status is assessed.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Criminal Justice

PSA 241 - Research Problems in Security
Prerequisites: Completion of RDG 001 and ENG 001. At least nine credits of Criminal Justice and/or Private Security Administration.
Description: (Dual listed with CRJ 212). This seminar type course offers the student an opportunity to examine specific issues, conflicts or controversies in one or more of the
following discipline areas: law enforcement, loss prevention, courts, and corrections. An interdisciplinary approach is stressed for a broader understanding. Each student is required to complete a research project under the direction of the instructor in the student's chosen area of examination.

SUNY GEN ED-GSBS; NCC GEN ED-n/a

Credit Hours: 3
Department: Criminal Justice

PSY 295 - Independent Study-Security Administration

Description: Formerly PSA 699. Students who have completed PSA 699 will not receive credit for PSA 295.

Credit Hours: 3
Department: Criminal Justice

Psychology

PSY

PSY 203 - General Psychology I

Description: Designed to familiarize the student with the science of human behavior and mental states; the methods employed by psychologists; the experimental findings and applications of research; and the important contributions from the behaviorist, psychoanalytic, neuroscientific, and cognitive schools of thought. This course includes the study of learning, perception, cognition, intelligence, social influences, psychological disorders, physiological changes and developmental stages.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 204 - General Psychology II: Research and Methods

Prerequisites: PSY 203.

Description: This course focuses on research and scientific inquiry in the field of psychology. The course will cover the logic of scientific inquiry, ethical considerations, common research designs used in psychological research, basic measurement concepts, and hypothesis testing. Students will learn to read and interpret psychological research literature, actively participate in demonstrations and original research, and learn how to present their findings in an APA-style paper.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 206 - Educational Psychology

Prerequisites: PSY 203.

Description: (Dual listed with EDU 206). Students who have taken PSY 206 will not receive credit for EDU 206. This course is intended to provide knowledge and understanding of the major theories and findings of the science of Educational Psychology. The course includes a consideration of such topics as: research methods in educational psychology; the cognitive, personal, social and moral development of students; the impact of student diversity on teaching and learning; the principles and processes of learning; motivational concerns in education; classroom management; techniques of teaching; and methods of assessing student learning.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 207 - Industrial Psychology

Prerequisites: PSY 203.

Description: An examination of aspects of behavior that relate to work organizations. Areas covered include pertinent general psychological processes such as learning and motivation; individual difference dimensions such as personality, aptitudes, and attitudes; and characteristics of group and organizational environments.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring

Credit Hours: 3
Department: Psychology

PSY 208 - Psychology II

Prerequisites: PSY 203.

Description: This course continues the study of the major topics of introductory psychology. Students are introduced to assessment techniques and the important role they play in determining psychological traits.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 209 - Psychology III

Prerequisites: PSY 203.

Description: This course continues the study of the major topics of introductory psychology and introduces students to advanced psychological concepts. Students are introduced to the latest research in psychology and the role it plays in society.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 210 - Psychology IV

Prerequisites: PSY 203.

Description: This course continues the study of the major topics of introductory psychology and introduces students to advanced psychological concepts. Students are introduced to the latest research in psychology and the role it plays in society.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 211 - Psychology V

Prerequisites: PSY 203.

Description: This course continues the study of the major topics of introductory psychology and introduces students to advanced psychological concepts. Students are introduced to the latest research in psychology and the role it plays in society.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 212 - Adolescent Psychology

Prerequisites: PSY 203.

Description: Problems of adolescence as related to childhood and maturity. Psychological, emotional, social, intellectual, moral, and religious development; theories of adolescent personality development, the importance of home and community relationships. Observations required.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 213 - Child Development

Prerequisites: PSY 203.

Description: Development and analysis of infant and child behavior, motor development, emotional development, motivation, language, thinking, work and play. Problems and methods of child study; application of research; effects of heredity and environment on the individual; individual differences and theories of personality development. Observations required.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 214 - Adult Development

Prerequisites: PSY 203.

Description: This course examines theories and research concerning psychological development in adulthood and old age. Among the topics studied are: theories of adult development, motivation, language, thinking, work and play. Problems and methods of child study; application of research; effects of heredity and environment on the individual; individual differences and theories of personality development. Observations required.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Spring

Credit Hours: 3
Department: Psychology

PSY 215 - Abnormal Psychology

Prerequisites: PSY 203.

Description: An introduction to behavior pathology. Emphasis is on the evaluation, diagnosis and treatment of disordered and maladaptive behavior. Presentation of different theories and models of normal and abnormal personality.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 216 - Lifespan Human Development

Prerequisites: PSY 203.

Description: This course will examine major theories and findings on human development. Development is viewed across the life span from prenatal development through advanced old age. The course integrates theoretical perspectives and serves as a foundation for careers in the behavioral sciences, health, and human services.

SUNY GEN ED-n/a; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 217 - Abnormal Psychology II

Prerequisites: PSY 203.

Description: This course continues the study of abnormal psychology. Students will be introduced to the latest research in psychology and the role it plays in society.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 218 - Lifespan Human Development II

Prerequisites: PSY 203.

Description: This course continues the study of human development. Students will be introduced to the latest research in psychology and the role it plays in society.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Offered: Fall, Spring, Summer

Credit Hours: 3
Department: Psychology

PSY 219 - Psychology of Art

Prerequisites: PSY 203.

Description: Issues, theories, and methodology in the psychology of visual art. Theories of creativity and profile of the
creative individual and thought process. Motivation to view art, pictorial perception, visual preference, sensitivity to style, and aesthetic judgment. Developmental trends in normal, autistic, gifted children's drawings, chimp art and pathological art.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Spring

Credit Hours: 3

Department: Psychology

PSY 220 - Brain and Behavior

Prerequisites: PSY 203.

Description: A course examining the structure and functioning of the nervous system on all levels, from the microanatomy and physiology of the neuron to a general description of the cerebral processes which underlie all behavior. Emphasis is placed on a general understanding of the organization of the brain and how this organization relates to both simple and complex behaviors.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Psychology

PSY 235 - Psychology of the Exceptional Child

Prerequisites: PSY 203 and PSY 212 or PSY 213.

Description: Students who have taken EDU 235 will not receive credit for PSY 235. This course examines the psychological, learning and behavioral characteristics of each category of exceptionality. Students will be introduced to special education laws and their implications for identification, delivery systems, transition plans, and placement procedures. Field experience in a special education setting is required.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Psychology

PSY 240 - Psychology of Human Adjustment

Prerequisites: PSY 203.

Description: The personality development of the individual, personal awareness and personal growth, adaptive and maladaptive modes of adjustment to social and psychological stresses, including a survey of major issues of current concern and a discussion of the community resources available to the individual with emotional difficulties.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

Credit Hours: 3

Department: Psychology

PSY 241 - Social Psychology

Prerequisites: PSY 203.

Description: The behavioral characteristics of individuals, of small and of large groups: their interrelationships, methods of measuring and assessing interactions between the individual and his environment. Motives, attitudes and opinion, social norms and roles, individual personality, group structures and processes, leadership and communication.

SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Psychology

PSY 294 - Cooperative Education Internship

Prerequisites: PSY 203 and permission of the Instructor and/or Chairperson and approval by the agency offering the internship.

Description: Supervised placement of the student in professional Psychological and Psychology-related settings to enable the student to gain insight into the Psychology field as well as interactive and practical work experience to enhance the formal academic concepts received in the classroom. Students are required to attend five on-campus seminars. Formerly PSY 490. Students who have completed PSY 490 will not receive credit for PSY 294.

SUNY GEN ED-n/a; NCC GEN ED-SBS

Credit Hours: 4

Department: Psychology

PSY 295 - Independent Study-Psychology

Description: SUNY GEN ED-n/a; NCC GEN ED-SBS. Formerly PSY 699. Students who completed PSY 699 will not receive credit for PSY 295.

Credit Hours: 3

Department: Psychology

Critical Reading & Academic Advisement

RDG

RDG 001 - Individualized Reading and Study Improvement

Prerequisites: Satisfactory completion of BEP 090, if required.

Description: A required course for students who demonstrate a strong need for developmental Reading coursework according to the College Placement Test. Instruction will include recognition of main ideas and details, critical reading skills, and vocabulary strategies. Students will develop techniques for annotating, outlining, mapping and summarizing a variety of genres of text. Students learn to build upon their strengths as readers as well as to address their individual study needs through ongoing assessments. Reading laboratory is required weekly for guided, individualized exploration of text. (3 lecture hours, 1 laboratory hour) Students assigned to this course must pass it before proceeding to ENG 101.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 0

Department: Critical Reading & Academic Advisement

RDG 002 - Reading and Studying College Texts

Prerequisites: Satisfactory completion of BEP 090 or RDG 001, if required.

Description: A required course for students who demonstrate the need for support in developing the strategies and techniques required to meet the demands of college reading across the disciplines. Instruction will include the application of more advanced reading strategies using content reading from college texts. All strategies will foster the reading/responding connection. The techniques students learn and practice through this course will be applied directly to academic course work. Supplemental support and practice in reading and studying strategies will be available in a Reading Help Center. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer

Credit Hours: 0

Department: Critical Reading & Academic Advisement

RDG 003 - Individualized Reading and Reading/Studying College Texts

Prerequisite: Placement into no more than two remedial courses, one of which is RDG 001, or those students who have passed BEP RDG 090 and exhibit strong mastery of concepts and behaviors integral to that course; eligibility for outgoing BEP students is determined by Department only. This course, which is non-credit, is a one-semester option to replace the two-semester sequence of RDG 001 and RDG 002. Instruction will incorporate pre-reading and active reading strategies including brainstorming, previewing, annotating, outlining, summarizing, paraphrasing, determining main ideas as well as major

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COURSE DESCRIPTIONS

and minor details, improving general and discipline-specific vocabulary, inferencing, synthesizing information and ideas, and adapting critical reading strategies to a variety of college texts. Students will be encouraged to read, analyze, evaluate and respond to academic text both orally and in writing. Emphasis will be placed on researching, reading and responding to information gleaned from online and print sources. Supplemental practice in reading and study strategies will be available in a Reading Help Center. This course cannot be repeated. Students assigned to this course must pass it in order to proceed to ENG 101.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 3

Department: Critical Reading & Academic Advisement

RDG 030 - Rdg ESL 3 - Reading and Study for the Foreign Student
Prerequisites: Completion of ELI (English Language Institute) or placement by department.
Description: This is a required course for students who speak English as a second language and who demonstrate a need to develop mastery of college-level reading and study skills. Emphasis will be in the areas of inferential and critical reading, textbook study strategies, library research, vocabulary enrichment and the development of reading fluency. Students are required to attend a supervised reading laboratory session weekly for individualized supplemental instruction. Completion of RDG 030 will enable students to take a credited reading class. (3 lecture hours, 1 laboratory hour).
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 0

Department: Critical Reading & Academic Advisement

RDG 101 - Effective College Reading
Prerequisites: Satisfaction of all non-credit Reading requirements.
Description: This is an advanced Reading course focusing on the critical reading of expository and narrative text from a variety of print and digital sources. Students will develop critical reading strategies to be used in the context of reading about issues facing them as members of society and as candidates for further study or for the world of work. There will be an emphasis on information literacy and on writing, in response to reading.
SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring, Summer
Credit Hours: 3

Department: Critical Reading & Academic Advisement

RDG 102 - Speed Reading
Prerequisites: RDG 101 placement.
Description: This is a concentrated course designed to present the theories of speed reading and to provide students with extensive practice in developing a greater range in their efficient reading rate. Ability to adjust one’s reading skills, especially rate and meaning making, to the genre and sophistication of the text under exploration are the main concern.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3

Department: Critical Reading & Academic Advisement

RDG 103 - Reading the New Media
Prerequisites: Satisfaction of all non-credit Reading requirements.
Description: This course invites students to apply the tools of critical reading to the new media. Using advanced literacy and comprehension skills, students will analyze, interpret, assess and synthesize information pertaining to news, contemporary issues, the arts and entertainment coming to them from a variety of on-line and textual sources, including, but not limited to, blogs, on-line newspapers and magazines, wikis, social networking and video sharing sites.
SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3

Department: Critical Reading & Academic Advisement

RDG 104 - News on the Net
Prerequisites: Satisfaction of all non-credit Reading requirements.
Description: This course is designed to teach students to become more discriminating news consumers as we are flooded by information and disinformation through the digital technology. The course helps students apply critical reading skills in the identification of propaganda, bias, fairness, assertion, verification, evidence and implication in the presentation of news. The ramifications of culture, business and government on news delivery and reception by the public will be studied.
SUNY GEN ED-GHUM; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3

Department: Critical Reading & Academic Advisement

Retail Business Management
RET

RET 107 - Principles of Retailing
Description: A survey of the retail industry. The economic importance and structure of retail organizations are studied for their function and interrelationships, operations and human resources.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Summer
Credit Hours: 3

Department: Marketing & Retailing

RET 109 - Visual Merchandising
Description: Visual merchandising of retailing goods; effective window and interior display; appropriate equipment and materials; color, lighting, and general arrangements. A hands-on approach is utilized whereby students design and construct exterior and interior displays. Lab fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3

Department: Marketing & Retailing

RET 111 - Retail Merchandising
Description: This course covers the fundamentals of merchandising, markup and markdown, stock turnover, stock-sales ratio, retail method of inventory, open-to-buy, unit stock control, the merchandise plan, merchandising and the computer.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3

Department: Marketing & Retailing

RET 115 - Textiles
Description: Identification of fibers and fabrics, and analysis of construction of cloth to determine strength, durability and usefulness are included in this course. Methods and effects of finishing cloth. In addition, laws relating to the labeling and advertising of textiles and textile products are discussed. Geared to the needs of students who plan careers in apparel design, interior design, retailing, fashion marketing, and consumerism.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3

Department: Marketing & Retailing

RET 119 - Retail Buying
Description: The buying function in department stores, specialty stores, discount chain stores, independent stores and non-store retail formats will be studied. The buying activity and how it is affected by store organization, merchandise offered and store's dollar volume are examined in order to forecast and satisfy consumer needs. The buyer's role in merchandise planning and control, sourcing domestic and foreign supply chains are also explored in order to understand channels of distribution in relationship to retail image.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Marketing & Retailing

RET 142 - Field Training

Prerequisites: Permission of Department Chairperson and/or Course Instructor.

Description: Students work for appropriate retail business firms to enrich the theoretical concepts previously developed in the classroom.

SUNY GEN ED-n/a; NCC GEN ED-n/a

Credit Hours: 3

Department: Marketing & Retailing

RET 295 - Independent Study-Retailing

Description: Formerly 699. Students who have completed RET 699 will not receive credit for RET 295.

Credit Hours: 3

Department: Marketing & Retailing

Russian

RUS

RUS 101 - Beginning Russian I

Prerequisites: Satisfactory completion of ENG 001 and RDG 002.

Description: Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

Offered: Fall, Spring

Credit Hours: 3

Department: Foreign Languages

RUS 201 - Intermediate Russian I

Prerequisites: Satisfactory completion of ENG 001 and RDG 002. RUS 102 or equivalent.

Description: Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

Offered: Fall

Credit Hours: 3

Department: Foreign Languages

RUS 202 - Intermediate Russian II

Prerequisites: Satisfactory completion of ENG 001 and RDG 002. RUS 201 or equivalent.

Description: Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

Offered: Spring

Credit Hours: 3

Department: Foreign Languages

Physical Sciences

SCI

SCI 101 - Principles of Physical Science

Description: This is an introductory course designed to involve the non-science oriented student in an investigation of some of the basic concepts and processes of science.

There will be an introduction to measurement and information gathering techniques used by scientists, along with an examination of basic principles of phenomena such as motion, gravity, energy, and heat. Laboratory experiments will enable the students to investigate scientific principles as they apply to the world. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI

Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Physical Sciences

SCI 102 - Material Science

Description: The course is designed to continue the investigation of physical science principles with a focus on chemical aspects. Such topics as electricity, atomic structure, chemical nature and behavior, ionization, reactions, and compound formation will highlight the study. Laboratory experiments will enable the students to investigate scientific principles as they apply to the world. (3 lecture, 3 laboratory hours) Lab fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-LSCI

Offered: Fall, Spring

Credit Hours: 4

Department: Physical Sciences

SCI 116 - The Universe

Description: This course introduces the study of the Universe through cosmology. It examines theories of the history of the universe, the nature of dark matter and dark energy, and the origin of elementary particles and ordinary matter on the large-scale structure. Emphasis will be placed on space and time as basic concepts in physical science and how modern measurements and discoveries allow us to determine the size, age, and future fate of the universe. Other topics include theories of parallel universes and time travel.

SUNY GEN ED-n/a; NCC GEN ED-ASC, NSCI

Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Physical Sciences

SCI 141 - Metascience

Prerequisites: Student must be either currently enrolled in and/or have taken and passed ENG 100 or ENG 101.

Description: This course presents a study of enigmatic phenomena, both historic and contemporary, which have aroused popular interest and which present a paradox to modern science. Topics covered in the course are extraterrestrial intelligence, ancient "super cultures" (including Atlantis), the
Bermuda Triangle phenomenon, the U.F.O. phenomenon, psychic phenomena (including "spirits" vs. "ghosts") and cryptozoological phenomena (from Loch Ness to Bigfoot). Emphasis is placed upon the critical evaluation of available data (written articles and videotapes) using the scientific method. SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring

Credit Hours: 3

Department: Physical Sciences

SCI 200 - Experimental Research Methods

Prerequisites: Completion of all English, reading, math remediation courses and a Natural or Physical Science sequence: AHS131 and AHS132 or, BIO109 and BIO110 or, CHE151 and CHE152 or, PHY101 and PHY102 or, PHY151 and PHY 152.

Description: (Dual listed with BIO 200)
This course introduces processes involved in completing the scientific method during experimentation and presentation of related research findings. Students will review theories and facts using prior works and identify literature which leads to further questioning and modification of original ideas. Students will explore the fundamentals of planning research experimentation including time management, theoretical frameworks, and logic of inquiry. Students will learn scientific thinking and writing skills necessary to communicate research findings. The course will also examine effective measures for presenting learned information (either via literature review or experimentation) including abstract writing, verbal presentations and written representations of works as a publishable work, thesis, or dissertation. It will also examine safety guidelines and ethical standards. Laboratory work will include explorations into the scientific method, experimental design and data collection. With an emphasis on applied learning, students will conduct research in the area of their choosing. NCC GEN ED-LSCI. Offered: Fall, Spring, Summer

Credit Hours: 4

Department: Physical Sciences

SOC 201 - Introduction to Sociology

Description: Major theories, methodology and research findings of Sociology. The nature, organization and development of modern society. Sociological examination of varied forms of group life, including small groups, families, bureaucracies, formal organizations, social classes and ethnic groups. Analysis of social process and social change. SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Winterim, Spring, Summer

Credit Hours: 3

Department: Sociology

SOC 202 - American Society

Prerequisites: SOC 201 or ANT 203.

Description: American society and its peoples: their class, ethnic and racial characteristics, their attitudes and behavior patterns. Exploration of family, educational, industrial, political and recreational institutions in American communities. Analysis of the effects of urbanization, industrialization and bureaucratization of American life. SUNY GEN ED-GSBS; NCC GEN ED-SBS, PLDI
Offered: On Occasion

Credit Hours: 3

Department: Sociology

SOC 207 - Sociology of Religion

Prerequisites: SOC 201 or ANT 203.

Offered: Fall, Spring

Credit Hours: 3

Department: Sociology

SOC 209 - Race, Class, Ethnicity

Description: This course explores racial, ethnic, and class diversity, identity, and inequality. It examines social relations between and among racial and ethnic groups in the United States, and relevant comparisons to other western and non-western societies. It examines the role of discrimination, prejudice, and stereotyping in intergroup relations. Also, it investigates how class privileges and disadvantages shape patterns of social mobility. The course pays particular attention to immigration to the United States and its effects on American society, in light of current research and theory.

SUNY GEN ED-GSBS; NCC GEN ED-PLDI, SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Sociology

SOC 210 - Criminology

Prerequisites: SOC 201 or ANT 203.

Description: The nature, significance and causes of crime: statistics of crime and delinquency; historical development of criminological theory; modern explanations of crime, criminal laws and courts; police and prisons. SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Sociology

SOC 212 - Social Problems

Description: Application of sociological principles to problems of social disorganization and deviant behavior in industrial societies. Analysis of such problems as family disorganization, race conflict, poverty, mental illness, suicide, aging, crime and delinquency, drug and alcohol addiction, overpopulation and the ecological crisis. SUNY GEN ED-GSBS; NCC GEN ED-SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Sociology

SOC 214 - African American Culture

Prerequisites: (Dual listed with AFR 185).

Description: A comprehensive survey of the various aspects of the lives, life-styles, values, art forms and social impact of the African American. The course includes varying lifestyles at different socioeconomic levels; speech patterns; the role of the church as a religious, historical, political and recreational institution; African American cultural patterns; and the influence of Africa. SUNY GEN ED-GSBS; NCC GEN ED-PLDI, SBS
Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Sociology

SOC 215 - Social Change

Prerequisites: SOC 201 or ANT 203 or permission of Instructor.

Description: This course analyzes social change and its impact in western and non-western societies. Focusing on classical and contemporary sociological theories, topics addressed include: the effects of changes in technology, population, the environment and economy; organized movements for social change and social justice. SUNY GEN ED-GSBS; NCC GEN ED-SBS
COURSE DESCRIPTIONS

**SOC 216 - Aging, Society and Culture**

**Prerequisites:** SOC 201 or ANT 203.

**Description:** Students will explore the social aspects of aging through field research and a survey of the literature. Topics include theories on aging, cross-cultural material, family and kinship relations, friendship patterns, voluntary associations, political participation, and financial, health, legal, and other social problems. Career opportunities in gerontology will be explored.

SUNY GEN ED-GSBS; NCC GEN ED-SBS, PLDI

**Credit Hours:** 3

**Offered:** Fall, Spring

**Department:** Sociology

**SOC 219 - The African American Family**

**Prerequisites:** SOC 201 or ANT 203 or permission of Instructor.

**Description:** Sociological approaches to the African American family. Topics include interactions with public and social institutions, male/female relationships, state of the extended family, identity as a socialization agent, courtship, sex patterns and roles, health and economic issues, alternative life styles, the Black male as an "endangered species", and the effects of public policy on the Black family.

SUNY GEN ED-GSBS; NCC GEN ED-SBS, SBS

**Credit Hours:** 3

**Department:** Sociology

**SOC 220 - Sociology of the Family**

**Prerequisites:** SOC 201 or ANT 203 or permission of Instructor.

**Description:** The family as a social institution and the roles of men, women and children in different societies. Types of families; how they develop and change. The social characteristics of the American family, its relation to the economy, government, religion and law. Problems of the family in modern industrial societies; conflict, divorce, mobility and mental illness.

SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Sociology

**Spanish**

**SPA**

**SPA 101 - Beginning Spanish I**

**Prerequisites:** Satisfactory completion of ENG 001 and RDG 002.

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

**SPA 151 - Practical Spanish for Medical Personnel I**

**Prerequisites:** Satisfactory completion of ENG 001 and RDG 002.

**Description:** This is the first course in the SPA 151 - SPA 152 sequence. A course for students in medical areas who wish to communicate effectively with Spanish-speaking people. It includes a systematic presentation of health-related terminology, and practice in using culturally appropriate Spanish
in typical medical and hospital situations. Laboratory fee applies. Laboratory component required. Students who took SPA 251 will not receive credit for SPA 151. 

SUNY GEN ED-GFOL; NCC GEN ED-HUM

Offered: Fall

Credit Hours: 3

Department: Foreign Languages

SPA 152 - Practical Spanish for Medical Personnel II

Prerequisites: Satisfactory completion of ENG 001 and RDG 002.

Description: This is the second course in the SPA 151 - SPA 152 sequence. A course for students in medical areas who wish to communicate effectively with Spanish-speaking people. It includes a systematic presentation of health-related terminology, and practice in using Spanish in typical medical and hospital situations. Laboratory fee applies. Laboratory component required. Students who took SPA 252 will not receive credit for SPA 152.

SUNY GEN ED-GFOL; NCC GEN ED-HUM

Offered: Spring

Credit Hours: 3

Department: Foreign Languages

SPA 205 - Intermediate Spanish for Bilingual Speakers I

Prerequisites: Satisfactory completion of ENG 001 and RDG 002. For native/bilingual speakers only.

Description: This course is part of a non-sequential pair of courses for heritage learners. This course requires a native knowledge of Spanish. These courses offer students who are "native" or bilingual speakers, (who have some knowledge of the spoken language, but who have had little or no formal training) an opportunity to correct and improve effective expression in written and spoken Spanish as well as exposure to the cultural production (literature, film, art) of the Spanish-speaking world.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

Offered: Fall, Spring

Credit Hours: 3

Department: Foreign Languages

SPA 206 - Intermediate Spanish for Bilingual Speakers II

Prerequisites: Satisfactory completion of ENG 001 and RDG 002. For native/bilingual speakers only.

Description: This course is part of a non-sequential pair of courses for heritage learners. This course requires a native knowledge of Spanish. These courses offer students who are "native" or bilingual speakers, (who have some knowledge of the spoken language, but who have had little or no formal training) an opportunity to correct and improve effective expression in written and spoken Spanish as well as exposure to the cultural production (literature, film, art) of the Spanish-speaking world.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

Offered: Fall, Spring

Credit Hours: 3

Department: Foreign Languages

SPA 215 - Intermediate Spanish I

Prerequisites: Satisfactory completion of ENG 001 and RDG 002. SPA 102 or equivalent.

Description: This is the first course in the SPA 201-SPA 202 sequence. Development of listening, speaking, reading and writing skills. Conversation and writing practice stimulated through a wide variety of cultural materials. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Foreign Languages

SPA 225 - Spanish for Business

Prerequisites: Satisfactory completion of ENG 001 and RDG 002. SPA 102 or permission of the instructor.

Description: Using print, video, and electronic media this course offers students a practical knowledge of Spanish business terminology and procedures. It will introduce students to such topics (in Spanish) as commercial letter writing, telephone etiquette, filling out business forms, etc. Students will also learn how to deal with cultural aspects of the international business environment.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH, LIT

Offered: Fall

Credit Hours: 3

Department: Foreign Languages

SPA 271 - Spanish Literature 1

Prerequisites: Satisfactory completion of ENG 001 and RDG 002. SPA 202 or equivalent. SPA 261 or SPA 262 recommended.

Description: Readings in representative works from the Middle Ages to the 17th century, supplemented by class discussion and student reports. Class conducted in Spanish. Formerly SPA 401. Students who have completed SPA 401 will not receive credit for SPA 271.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH, LIT

Offered: Fall

Credit Hours: 3
Department: Foreign Languages

SPA 272 - Spanish Literature 2
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. SPA 202 or equivalent; SPA 261 or SPA 262 recommended.

Description: Readings in representative works from the 17th century to the contemporary period, supplemented by class discussions and student reports. Class conducted in Spanish. Formerly SPA 202. Students who have completed SPA 202 will not receive credit for SPA 272.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH, LIT
Offered: Spring
Credit Hours: 3
Department: Foreign Languages

SPA 273 - Spanish-American Literature 1
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. SPA 202 or equivalent; SPA 261 or SPA 262 recommended.

Description: Readings in representative works from the pre-Colombian period to 1880, supplemented by class discussion and student reports. Class conducted in Spanish. Formerly SPA 403. Students who have completed SPA 403 will not receive credit for SPA 273.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH, LIT
Offered: Fall
Credit Hours: 3
Department: Foreign Languages

SPA 274 - Spanish-American Literature 2
Prerequisites: Satisfactory completion of ENG 001 and RDG 002. SPA 202 or equivalent; SPA 261 or SPA 262 recommended.

Description: Readings in representative works from the period of Modernism through the contemporary period, supplemented by class discussion and student reports. Class conducted in Spanish. Formerly SPA 404. Students who have completed SPA 404 will not receive credit for SPA 274.

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH, LIT
Offered: Spring
Credit Hours: 3
Department: Foreign Languages

SPA 295 - Independent Study-Spanish
Description: SUNY GEN ED-n/a; NCC GEN ED-HUM. Formerly SPA 699. Students who have completed SPA 699 will not receive credit for SPA 295.

Credit Hours: 3
Department: Foreign Languages

Student Personnel Services

SPS 093 - BEP Seminar
Description: (Dual listed with BEP 093). SPS Seminar is a required course of the Basic Education Program. The seminar focuses on values clarification, identification and applications of individual learning styles, critical thinking, problem solving, career exploration and understanding College policies. Students will be expected to demonstrate the understanding of these concepts and skills in the other courses of the college preparatory program and in making plans for the next semester of their education.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 0
Department: Student Personnel Services

SPS 101 - Career Orientation
Description: This is a transitional introductory career awareness course that assists the individual to learn from self-appraisal activities and career information gathering. Topics to be covered include: understanding one's interests, skills, work values and personality style as well as an investigation of career fields.

SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Winterim, Spring, Summer
Credit Hours: 1
Department: Student Personnel Services

SPS 102 - Career Development and Exploration
Description: The course examines individual behavior in the social contexts of personal, family, work, and group backgrounds. Using extensive career development and psychological theories from a wide range of research, the course assists the individual to determine successful methods of self-assessment and exploration, resulting in the achievement of a broad perspective of the world of work. Social factors such as job market volatility, industry trends and environmental and technological needs are reviewed for successful career exploration and decision making.

SUNY GEN ED-GSBS; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Student Personnel Services

SPS 111 - Understanding Substance Use, Abuse and Addiction
Description: The course will address the nature of chemical dependency, recovery and treatment. Students will have an opportunity to analyze their own assumptions and attitudes toward chemicals and chemically dependent persons and develop an understanding of the biopsychosocial disease model of addiction. The course will also provide students with an understanding of drugs and drug abuse in American culture. The history of various drugs, their effects on society and human behavior will be examined.

SUNY GEN ED-GSBS; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Student Personnel Services

SPS 201 - Perspectives on People with Disabilities
Description: The course enables the understanding of the social and personal experiences of people with disabilities. Emphasis is placed on how different cultures view and interact with this population.

SUNY GEN ED-GSBS; NCC GEN ED-n/a
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Student Personnel Services

SPS 202 - Career Management
Description: This course is intended for students who have already engaged in the career exploration process. Topics to be covered include: self-awareness, world of

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work and survey of career fields, employer research, employment organizational structures, effective networking, targeted resume and cover letter development, interviewing skills, professional etiquette, experiential learning, motivational theory and development, and self marketing strategies. This is a hands-on learning experience emphasizing the development of lifelong career management skills and tools.

SUNY GEN ED-GSBS; NCC GEN ED-n/a

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 101 - Music Business I

Corequisites: SRT 101 and SRT 103.

Description: Survey of music business practices and music industry markets. Topics include publishing, copyright, sample clearance, performance licensing and management. Limited to Studio Recording Technology Certificate students.

SUNY GEN ED-n/a; NCC GEN ED-HUM

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 102 - Music Business II

Corequisites: Minimum grade of C in SRT 101.

Description: Survey of music business practices focusing on recording contracts and career planning. Limited to Studio Recording Technology Certificate students.

SUNY GEN ED-n/a; NCC GEN ED-HUM

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 103 - Music Theory I

Corequisites: SRT 101 and SRT 105.

Description: Survey of music theory practices and applications. Rudiments of music, including notation, rhythm, scales, intervals and triads. Limited to Studio Recording Technology Certificate students. SUNY GEN ED-n/a; NCC GEN ED-FAPA

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 104 - Music Theory II

Prerequisites: Minimum grade of C in SRT 103.

Corequisites: SRT 102 and SRT 106.

Description: Survey of music theory practices and commercial music applications. Specific study of commercial music formats and language. Limited to Studio Recording Technology Certificate students.

SUNY GEN ED-n/a; NCC GEN ED-FAPA

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 105 - Basic Studio Techniques

Corequisites: SRT 101 and SRT 103.

Description: Survey of equipment and procedures in sound recording. Basic electronic acoustical principles, system signal flow, mixing consoles, equalizers, compressors/limiters and microphone design and application. Limited to Studio Recording Technology students. Classes meet both on campus and at an off campus professional studio. Students must provide their own transportation.

SUNY GEN ED-n/a; NCC GEN ED-FAPA

Offered: Fall, Spring, Summer

Credit Hours: 6

Department: Music

SRT 106 - Advanced Studio Techniques

Prerequisites: Minimum grade of C in SRT 105.

Corequisites: SRT 102 and SRT 104.

Description: Continuation of the study of studio procedures, with emphasis on digital audio workstations (ProTools), virtual instruments, analog/digital signal processors, automated mixing techniques for stereo and surround formats. Limited to Studio Recording Technology students. Classes meet both on campus and at an off campus professional studio. Students must provide their own transportation.

SUNY GEN ED-n/a; NCC GEN ED-FAPA

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 107 - Studio Internship

Prerequisites: Minimum grade of C in SRT 106.

Description: Field experience internship program where students are placed as apprentice technicians in professional recording studios. Faculty field supervision at off-campus location. Students must provide their own transportation.

SUNY GEN ED-n/a; NCC GEN ED-FAPA

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 115 - Recording Session

Techniques

Description: Students will participate in live music-recording sessions. Each session will focus on a new specific skill set while continuing to rehearse basic setups and procedures. In addition to "hands-on" participation during the studio sessions, the students will be required to mix multi-track audio files from these sessions and deliver them electronically. Limited to Sound Recording Technology students.

FAPA; NCC GEN ED-HUM

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 205 - Sound Recording

Techniques III

Description: An advanced survey of equipment and procedures in sound recording. Advanced microphone placement, equalization, and compression techniques and application, audio and MIDI editing in a digital audio workstation, plug-in/hardware application, synthesizers and drum machines. Limited to Sound Recording Technology needs.

FAPA; NCC GEN ED-HUM

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 206 - Sound Recording

Techniques IV

Description: Continuation of the study of studio procedures, with emphasis on mixing and mastering techniques and application. Limited to Sound Recording Technology students.

FAPA; HUM

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music

SRT 207 - Sound Reinforcement

Description: An overview of live sound production including the basic principles of live sound reinforcement, the design and functions of a live-audio system, mixing techniques, and acoustics as they pertain to the live sound environment. Limited to Sound Recording Technology students.

FAPA; NCC GEN ED-HUM

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Music
Statistics

STA

STA 110 - Introduction to Statistical Research Design
Prerequisites: MAT 102.
Description: General elective course for Liberal Arts, Business, Social Sciences, Humanities, and Statistics students. Introduces the components of research design and research report writing. Different school research designs are included.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 3
Department: Math/Computer Science/Info Tec

Telecommunications Technology

TCT

TCT 141 - Telecommunications Circuits
Description: This course will train students in the application of Ohm's law, Kirchhoff's laws, analysis of DC and AC passive circuits (including RLC circuits), impedances, power supplies, semiconductors, resonance, and transformers. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 4
Department: Engineering/Physics/Tech

TCT 144 - Digital Electronics for Telecommunications I
Prerequisites: MAT by advisement, CMP 103, TCT 141 and ENG 100 or ENG 101.
Description: This course will prepare students in digital electronics with topics related to number systems and codes, logic functions, and Boolean algebra. IC building blocks are used in applications ranging from logic gates to flip-flops, counters, registers, and arithmetic circuits. Algebraic reduction and mapping are used to minimize Boolean expressions and combinational logic circuits. Computer simulation of digital circuits will be used to verify actual hardware setups. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

TCT 151 - Telecommunications I Voice
Description: An introduction to the techniques, principles, and terminology of voice telecommunications will be presented. Public and private telecommunication networks will be examined. Telecommunication equipment, switching and transmission technology will be demonstrated. The frequency modulation, modulation schemes and multiplexing techniques will be explored. Lectures, interactive learning, demonstrations will be employed. Laboratory exercises will be required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall, Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

TCT 252 - Telecommunications II - Data
Prerequisites: TCT 144.
Description: An introduction to the techniques, principles, and terminology of Data Communications will be presented. Public and private networks will be examined. Data communication equipment, multiplexing, and interactive learning demonstrations will be employed. Laboratory exercises will be required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Fall
Credit Hours: 4
Department: Engineering/Physics/Tech

TCT 253 - Telecommunications III - LAS
Prerequisites: TCT 144.
Description: An introduction to the technology and terminology of Local Area Networks (LANs) will be presented. The topologies, transmission media, network interfaces, and the access methods will be examined. Shared resources and interconnection of LANs will be explored. Lectures, interactive learning and demonstrations will be employed. Laboratory exercises will be required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

TCT 254 - Telecommunications IV
Prerequisites: TCT 144.
Description: A survey of current and emerging technologies in telecommunications will be presented. Lectures, interactive learning, demonstrations, and site visits will be employed. Laboratory exercises will be required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Offered: Spring
Credit Hours: 4
Department: Engineering/Physics/Tech

Theatre

THR

THR 100 - Theatre Appreciation
Prerequisites: Satisfactory completion of remedial reading.
Description: A survey of the aesthetic and technical factors involved in the emergence of written drama as a produced work of theatre art. For students whose curricular emphasis is not theatre. Attendance at theatrical productions required.
SUNY GEN ED-GART; NCC GEN ED-WESH, FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Theatre & Dance

THR 101 - Introduction to Theatre History I
Prerequisites: Satisfactory completion of remedial reading.
Description: An introduction to the arts of the theatre with special emphasis on (1) the evolution and historical development of the play and the physical theatre and (2) the function and interdependence of the various artists and craftsmen in the theatre from primitive times through the Renaissance. Attendance at theatrical productions required. (See THR 201)
SUNY GEN ED-GHUM, GART; NCC GEN ED-WESH, FAPA, HUM
Offered: Fall
Credit Hours: 3
Department: Theatre & Dance

THR 102 - Introduction to Black Theatre in America
Description: (Dual listed with AFR 190) An introduction to the literature and artists of the contemporary African American theatre. The course includes representative playwrights, actors and technicians as speakers in the class and field trips to theatre productions. Students have the opportunity to work in at least one production per semester, selected from contemporary African American
COURSE DESCRIPTIONS

THR 103 - Acting I
Prerequisites: Satisfactory completion of remedial reading.
Description: Fundamental training of the actor as a theatrical instrument. Physicalization, characterization and interpretation are applied to improvisations, monologues and scenes. Actor's script analysis, psychological and emotional preparation are emphasized in scene and monologue study.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring, Summer
Credit Hours: 3
Department: Theatre & Dance

THR 104 - Acting II
Prerequisites: Minimum Grade of C in THR 103.
Description: Fundamental training of the actor as a theatrical instrument. Physicalization, characterization and interpretation are applied to improvisations, monologues and scenes. Actor's script analysis, psychological and emotional preparation are emphasized in scene and monologue study.
SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Theatre & Dance

THR 107 - Stagecraft
Prerequisites: Satisfactory completion of remedial reading.
Description: Introduction to the principles and techniques of technical theatre production, including scene design, construction, stage lighting, and costuming. Practical emphasis will be placed on scenery construction and the use of hand and power tools. Course requirements include an assignment to a theatre production.
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM
Offered: Fall
Credit Hours: 3
Department: Theatre & Dance

THR 108 - Technical Production
Prerequisites: Minimum grade of C in THR 107.
Description: Intermediate study of the techniques and principles of stage construction and technical production.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Theatre & Dance

THR 110 - Movement for Stage I
Prerequisites: for Acting A.A. degree majors only or permission of Chairperson.
Description: Training in movement to prepare the body as a dramatic instrument. Emphasis on flexibility so the actor may express physically a wide range of attitudes, traits, and emotions. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-HUM
Fall Only
Credit Hours: 1
Department: Theatre & Dance

THR 113 - Summer Theatre Workshop I
Description: This is the first course in the THR 117-THR 118 sequence. Participation in the production, rehearsal and performance of the African-American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Summer
Credit Hours: 3
Department: Theatre & Dance

THR 115 - Production and Performance
Description: This is the first course in the THR 115-THR 116 sequence. Participation in the production, rehearsal and performance of major College theatre productions. Assignments include constructing and painting scenery, hanging lighting instruments, stage management, running crew, etc. Students who are cast in productions (by audition only) are also required to participate in technical production tasks. Open to Theatre and Acting degree students; others by Department permission only.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Theatre & Dance

THR 116 - Production and Performance
Description: This is the second course in the THR 115-THR 116 sequence. Participation in the production, rehearsal and performance of major College theatre productions. Assignments include constructing and painting scenery, hanging lighting instruments, stage management, running crew, etc. Students who are cast in productions (by audition only) are also required to participate in technical production tasks. Open to Theatre and Acting degree students; others by Department permission only.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Theatre & Dance

THR 117 - African American Theatre Ensemble, Rehearsal and Performance
Prerequisites: THR 117.
Description: (Dual listed with AFR 192) This course is the second half of the THR 117-THR 118 sequence. Participation in the production, rehearsal and performance of the African-American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Theatre & Dance

THR 118 - African American Theatre Ensemble, Rehearsal and Performance
Prerequisites: THR 117.
Description: (Dual listed with AFR 191) This is the first course in the THR 117-THR 118 sequence. Participation in the production, rehearsal and performance of the African-American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 1
Department: Theatre & Dance

THR 119 - Movement for Stage II
Description: Prerequisite: for Acting A.A. degree majors only or permission of the Department. There is no further description of this course.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Theatre & Dance

THR 120 - Voice for Stage
Prerequisites: for Acting A.A. degree majors only or permission of Chairperson.
Description: Practice in the development of voice for the stage; concentrated practice in developing more effective voice and diction habits for the individual actor. (3 hours)
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 1
Department: Theatre & Dance

THR 201 - Introduction to Theatre History II
Prerequisites: Satisfactory completion of remedial reading.
COURSE DESCRIPTIONS

THR 202 - Lighting Design
Prerequisites: Minimum Grade of C in THR 108.
Description: A program of instruction in the principles of theatrical lighting design, consisting of lab sessions, and lectures on equipment, color, optics, and lighting techniques. Students are to make light plots for analysis in class and advanced design problems are discussed.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 3
Department: Theatre & Dance

THR 203 - Scene Design
Prerequisites: Minimum Grade of C in THR 202.
Description: A program of instruction in the theory and practice of scene design, consisting of demonstrations, lectures, and critiques of student work. Students are to make scene sketches, models, and working drawings for assigned projects, and move on to more advanced design problems.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Theatre & Dance

THR 207 - Acting III
Prerequisites: Minimum Grade of C in THR 104.
Description: This is the first course in the THR 207-THR 208 sequence. Designed especially for the third semester student in acting. Classroom study and coaching with emphasis on advanced monologues and scene study.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Theatre & Dance

THR 208 - Acting IV
Prerequisites: Minimum Grade of C in THR 207.
Description: This is the second course in the THR 207-THR 208 sequence. Designed especially for the fourth semester student in acting. Classroom study and coaching with emphasis on advanced monologues and scene study.
SUNY GEN ED-GART; NCC GEN ED-HUM
Offered: Fall, Spring
Credit Hours: 3
Department: Theatre & Dance

THR 215 - Production and Performance
Prerequisites: for Acting A.A. and Technical Theatre A.A. degree students or permission of the Department.
Description: This is the first course in the THR 215-THR 216 sequence. Participation in the production, rehearsal and performance of major college theatre productions. Assignments include construction and painting scenery, hanging lighting instruments, stage management, running crew, etc. Students who are cast in productions (by audition only) are also required to participate in technical production tasks.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Fall
Credit Hours: 3
Department: Theatre & Dance

THR 216 - Production and Performance
Prerequisites: for Acting A.A. and Technical Theatre A.A. degree students or permission of the Department.
Description: This is the second course in the THR 215-THR 216 sequence. Participation in the production, rehearsal and performance of major college theatre productions. Assignments include construction and painting scenery, hanging lighting instruments, stage management, running crew, etc. Students who are cast in productions (by audition only) are also required to participate in technical production tasks.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Theatre & Dance

THR 217 - African American Theatre Ensemble, Rehearsal and Performance
Description: (Dual listed with AFR 194). This is the second course in the THR 217 - THR 218 sequence. Participation in the production, rehearsal and performance of the African-American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Theatre & Dance

THR 218 - African American Theatre Ensemble, Rehearsal and Performance
Description: (Dual listed with AFR 194). This is the second course in the THR 217 - THR 218 sequence. Participation in the production, rehearsal and performance of the African-American Theatre Ensemble productions.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 1
Department: Theatre & Dance

THR 225 - Shakespeare: Stage/Page
Prerequisites: ENG 102 or ENG 109.
Description: (Dual listed with ENG 252) This interdisciplinary course, team-taught by members of the English and Theatre Departments, offers a performance-oriented view of Shakespeare's plays. Students see films and videotapes as well as perform segments of the plays in class. Writing is an integral component of the course. Formerly THR 300. Students who have completed THR 300 will not receive credit for THR 225.
SUNY GEN ED-GHUM; NCC GED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: Theatre & Dance

THR 252 - Shakespeare: Stage/Page
Prerequisites: ENG 102 or ENG 109.
Description: (Dual listed with ENG 252) This interdisciplinary course, team-taught by members of the English and Theatre Departments, offers a performance-oriented view of Shakespeare's plays. Students see films and videotapes as well as perform segments of the plays in class. Writing is an integral component of the course. Formerly THR 300. Students who have completed THR 300 will not receive credit for THR 252.
SUNY GEN ED-GHUM; NCC GED-HUM, LIT
Offered: Spring
Credit Hours: 3
Department: Theatre & Dance

THR 295 - Independent Study-Theatre
Description: Students who have completed THR 300 will not receive credit for THR 295.
SUNY GEN ED-n/a; NCC GEN ED-HUM
Offered: Spring
Credit Hours: 3
Department: Theatre & Dance

Telecommunications

TNY

TNY 171 - Telecommunications Circuits
Prerequisites: CMP 101, MAT 117.
Description: This course will train students in the application of Ohm's Law, Kirchhoff's laws, Thevenin's and Norton's theorem, and superposition to the analysis of DC and AC passive circuits, including R-L-C circuits, impedances, phase angles, resonance, and transformers. This course makes extensive use of computer simulations and communications both in and out of the classroom; use of a laptop computer is required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4
TNY 173 - Telecommunications Electronics I

Prerequisites: PHY 110, TNY 171.
Corequisites: TNY 181.

Description: This course will train students in the physical principles underlying the analysis and application of electronic circuits as applied to the telecommunications industry. Topics include concepts of amplification; frequency response of one and two stage amplifiers; op-amps; filters; troubleshooting; and analysis by computer simulation. This course makes extensive use of computer simulations and communications both in and out of the classroom; use of a laptop computer is required. Lab fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

TNY 174 - Telecommunications Digital Electronics I

Description: This course will prepare students in digital electronics with topics related to number systems and codes, logic functions, and Boolean algebra. IC building blocks are used in applications ranging from logic gates to flip-flops, counters, registers, and arithmetic circuits. Algebraic reduction and mapping are used to minimize Boolean expressions and combinational logic circuits. Computer simulation of digital circuits will be used to verify actual hardware setups. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

TNY 175 - Telecommunications Digital Electronics II

Description: This course is designed to train students in the organization, architecture, and hardware aspects of digital microcomputer systems. Topics include an introduction to microprocessors, types and characteristics of different chips, motherboards, bus structures, memory, I/O interface devices, disk drives, video displays, and printers. Serial and parallel buses are discussed. Applications include the interfacing of peripherals, data communications between computers, and team project. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

TNY 273 - Telecommunications Electronics II

Prerequisites: TNY 173.
Corequisites: TNY 282.

Description: This course is designed to train students in the analysis and application of advanced electronic circuits as applied to the Telecommunications industry. Topics include gain in decibels, Bode plots, filters, frequency modulation, transmission lines, fiber optics and analysis by computer simulation. This course makes extensive use of computer simulations and communications both in and out of the classroom; use of a laptop computer is required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

TNY 275 - Telecommunications Digital Electronics II

Description: This course is designed to train students in the organization, architecture, and hardware aspects of digital microcomputer systems. Lectures, interactive learning, and demonstrations will be employed. This course makes extensive use of computer simulations and communications both in and out of the classroom; use of a laptop computer is required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

TNY 282 - Telecommunications II

Prerequisites: TNY 181 and CRT 202.
Corequisites: TNY 273.

Description: An introduction to the techniques, principles, and terminology of Data Communications will be presented, stressing the basics of Voice over Internet Protocol (VoIP) systems, interactive learning, and demonstrations will be employed. Laboratory exercises will be required. This course makes extensive use of computer simulations and communications both in and out of the classroom; use of a laptop computer is required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

TNY 283 - Telecommunications III

Prerequisites: TNY 282

Description: An introduction to the technology and terminology of Networks will be presented, including the organization, architecture, setup, hardware and software aspects of networked video delivery systems. Lectures, interactive learning, and demonstrations will be employed. This course makes extensive use of computer simulations and communications both in and out of the classroom; use of a laptop computer is required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

Department: Engineering/Physics/Tech

TNY 284 - Telecommunications IV

Prerequisites: TNY 283

Description: A survey of current and emerging technologies in telecommunications will be presented. Lectures, interactive learning, demonstrations, and site visits will be employed. Laboratory exercises will be required. This course makes extensive use of computer simulations and communications both in and out of the classroom; use of a laptop computer is required. Laboratory fee applies.
SUNY GEN ED-n/a; NCC GEN ED-n/a
Credit Hours: 4

Department: Engineering/Physics/Tech

Critical Reading and Academic Advancement

WRT

WRT 001 - Foundations of Writing
Prerequisites: NCC Placement Test of Reading 001. This course is designed to help students strengthen their basic writing skills in preparation for the demands of college-level writing. Students create essays through the process of prewriting, drafting, revising and editing their work with the help of peer and instructor feedback to develop a sense of purpose and audience. Students learn to incorporate ideas gleaned through reading expository text into their essays to strengthen their arguments and develop appropriate techniques for writing in timed and untimed settings. The class meets three times a week and provides intensive, active educational experience within the framework of classroom and learning center support. Students assigned to this course must pass it before proceeding to ENG 100 or ENG 101. (4 class hours)
COURSE DESCRIPTIONS

WST 101 - Introduction to Women's Studies

Description: Focusing on the roles of women in a cross-cultural context, this course introduces the student to the discipline of Women's Studies and serves as a basis for more specialized courses. It treats such issues as women in the family, workplace, and community; images of women in the arts, professions and popular culture; and women's contributions in a variety of fields.

SUNY GEN ED-n/a; NCC GEN ED-PLDI, WESH

Offered: Fall, Spring, Summer

Credit Hours: 3

Department: Multidisciplinary Studies

WST 105 - Gender in Popular Culture

Description: Popular culture portrays a range of femininities and masculinities which influence our sense of who we are as men and women. In this course we will look at material from a wide range of gender constructions—in texts; in Hollywood, independent, and foreign films; in television shows and commercials; in cartoons, graphic art and video games; in music videos; and/or on the Internet in social networking sites like Facebook and Twitter. Using a variety of critical and theoretical approaches, we will examine how pop culture representations of gender reflect social conditions, how they construct social possibilities, and how they change over time.

SUNY GEN ED-n/a; NCC GEN ED-PLDI

Offered: Fall, Spring

Credit Hours: 3

Department: Multidisciplinary Studies

WST 107 - The Philosophy of Sex & Gender

Prerequisites: ENG and RDG Remedials completed.

Description: (Dual listed with PHI 107)
Many people distinguish males and females along two different dimensions: biological endowment and social role. The first dimension is labeled 'sex', the second 'gender'. this course examines the nature and development of the sex-gender distinction, its application to issues surrounding sexual equality, as well as contemporary challenges to the distinction that arise within conversations regarding intersexuality and transgenderism. The course also explores the intersection between sex, gender, and sexual desire.

SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI

Offered: Fall and Spring

Credit Hours: 3

Department: Multidisciplinary Studies

WST 110 - The Goddess in World Religions

Description: This course will explore the images of the Goddess in world religions such as Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, traditional African religions, and Native American traditions. It will look at both iconography and literary texts to examine how the Goddess as a representation of the Divine affects women's spirituality and the larger culture.

SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI

Offered: Fall, Spring

Credit Hours: 3

Department: Multidisciplinary Studies

WST 201 - Women's Issues in Global Context

Description: This course explores some of the major issues that affect women around the world. It focuses on the global labor force, reproductive rights, gay and lesbian politics, sexual identity, and education in Asia, Africa, Latin America, Europe, and the United States. Students will learn how women's experiences affect law and politics and how local conditions (here and elsewhere) intersect with global concerns and movements. Particular emphasis will be placed on goals and accomplishments of women's grassroots activism in many cultures.

SUNY GEN ED-GOWC; NCC GEN ED-GLNW, PLDI

Offered: Fall, Spring

Credit Hours: 3

Department: Multidisciplinary Studies

Women's Studies

Nassau Community College: https://collegecatalog.ncc.edu/current