

# 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 107 - Machine Transcription

**Description:** This course is designed to develop competency in transcribing letters, memoranda, and other types of written communications using transcription equipment. Language arts skills are reinforced. Formerly OFT 107. Students who have completed OFT 107 will not receive credit for ABT 107. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a  
*Offered: Fall (even years), Spring (odd 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 letters, reports, and a variety of other documents. This course is nontransferable. Formerly OFT 113. Students who have completed OFT 113 will not receive credit for ABT 113.

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

*Offered: Spring*

**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.

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

*Offered: Fall, Spring*

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

*Offered: Fall, Spring*

**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.

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

*Offered: Fall*

*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, 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. 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 (odd years), 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.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Administrative Business Tech*

### **ABT 152 - Medical Transcription**

**Prerequisites:** ABT 244 or permission of Chairperson.

**Description:** Transcription from medical dictation tapes which include letters; chart notes; histories and physicals; discharge summaries; and operative, radiology, and pathology reports. Emphasis is on comprehension of medical terminology, language arts, correct formatting, and proofreading. Formerly OFT 152. Students who have completed OFT 152 will not receive credit for ABT 152. (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 153 - Medical Coding**

**Prerequisites:** HIT 151 or permission of the Chairperson.

**Corequisites:** HIT 151 or permission of the Chairperson.

**Description:** Introduction to current medical coding and billing procedures. Students will develop an understanding of both the ICD-9-CM and CPT-4 coding systems and will be introduced to the terminology and procedures for preparing insurance claim forms. Students will apply theory through computer specific reinforcement exercises and activities. Laboratory fee applies.

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

*Offered: Please contact Department for course offering*

*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 225 - Legal Workshop**

**Prerequisites:** ABT 127 or permission of the Chairperson.

**Corequisites:** ABT 127 or permission of the Chairperson.

**Description:** Legal office procedures, case management, and the litigation process. Application assignments cover the job search, filing records, preparing the court calendar, and transcribing legal letters and documents. Practice sets are assigned to reinforce and enrich litigation procedures. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

*Credit Hours: 3*

*Department: Administrative Business Tech*

### **ABT 226 - Legal Work/Study**

**Prerequisites:** ABT 225 or permission of the Chairperson.

**Corequisites:** ABT 225.

**Description:** Supervised work experience in cooperation with the District Attorney's office and private law firms in Nassau County and New York City. Students are introduced to legal office procedures through observation, study, and work. Weekly seminars reinforce work experience.

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

*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 & 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

### **ABT 244 - Business Writing**

**Prerequisites:** ENG 100 or ENG 101.

**Description:** An introduction to the principles of writing business correspondence. Emphasis on composing and editing business documents, including letters, memos, e-mail messages, and reports. Language arts skills are reinforced. (3 lecture, 2 laboratory hours) Laboratory fee applies. (Also offered online).

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Administrative Business Tech

### **ABT 245 - Administrative Management**

**Description:** The study of managerial functions and theory. Special attention is given to issues facing office managers including the analysis of technology, office design implementation, personnel practices and concerns, and overall management of people, procedures, and equipment. Formerly OFT 245. Students who have completed OFT 245 will not receive credit for ABT 245. (Also offered online).

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **ABT 254 - Medical Workshop**

**Description:** Front office and administrative procedures for the medical office: reports, filing, telephone techniques, human relations, and office management. Patient information, procedure and diagnostic codes, claim centers and service facilities, and billing information are presented using Medical Manager software. Formerly OFT 254. Students who have completed OFT 254 will not receive credit for ABT 254. (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 255 - Medical Work/Study**

**Prerequisites:** ABT 254 or permission of the Chairperson.

**Description:** Supervised work experience in cooperation with selected hospitals, doctors, offices, and research institutions. Students are introduced to medical procedures through observation, study, and work. Weekly seminars reinforce work experience.

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

**Offered:** 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 liabilities. Formerly BUS 101. Students who have completed BUS 101 will not receive credit for ACC 101.

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

**Offered:** Fall, Spring, Summer

**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.

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

**Offered:** Fall, Spring, Summer

**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.

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

**Offered:** Summer

**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.

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

**Offered:** Fall, Spring

**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.

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

**Offered:** Fall, Spring, Summer

**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.

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

**Offered:** Fall, Spring, Summer

**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.

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

**Offered:** Fall

**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.

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

**Offered:** Fall

**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.

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

**Offered:** Spring

**Credit Hours:** 4

**Department:** Accounting and Business Admin

### ACC 295 - Independent Study-Accounting

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

**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.

SUNY GE-SHUM; SUNY GEN ED-GART, GHUM; NCC GEN ED-HUM

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Africana Studies

#### AFR 110 - African American Dance Ensemble, Rehearsal and Performance

**Description:** (Dual listed with DAN 117) 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 GE- SART; SUNY GEN ED-n/a; NCC GEN ED-HUM

**Offered:** Fall, Spring

**Credit Hours:** 1

**Department:** Africana Studies

#### AFR 111 - 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 GE-SART; 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 GE-SART, SHUM; 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 GE-SART; 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 GE-SART; SUNY GEN ED-n/a; NCC GEN ED-HUM

**Offered:** Spring

**Credit Hours:** 1

**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 GE-SDES, SHUM; 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:** ENG 100, ENG 101, or ENG 108 and ENG 102 or ENG 109.

**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. Writers such as West, Malcolm X, Ralph Ellison, James Baldwin, Gwendolyn Brooks, Hayden, Alice Walker, Toni Morrison, and Walter Moseley are read. Writing is an integral components 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

**Description:** (Dual listed with HIS 176)

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 GE- SDES, SSBS, SUSC; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI

*Credit Hours: 3*

*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 GE- SDES, SSBS, SUSC; 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-independent Africa, such as nation building, strategies of development, education, pan-Africanism; and problems of democracy in southern Africa.

SUNY GE-SSBS, SWHI; 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 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 151 - African American Choral Ensemble**

**Description:** (Dual listed with MUS 130)

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 GE-SART; SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Spring*

*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 GE- SART, SDES, SHUM; SUNY GEN ED-GART, GHUM; NCC GEN ED-PLDI, HUM, WESH

*Offered: Fall, Spring*

*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 GE-SART; 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 GE- SART; 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 GE-SART, SDES, SHUM; SUNY GEN ED-GART, GHUM; NCC GEN ED-HUM, PLDI, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Africana Studies*

### **AFR 170 - Black Social Philosophy**

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

**Description:** Dual listed with PHI 108)

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 GE- SDES, SHUM; 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 GE-SART; 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 GE-SART; SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Africana Studies*

### **AFR 191 - African American Theatre Ensemble, Rehearsal and Performance**

**Description:** (Dual listed with THR 117)

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 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**

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

**Description:** (Dual listed with COM 130)

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: Africana Studies*

### **AFR 200 - History of the Black Woman**

**Prerequisites:** Completion of RDG 001

**Description:** (Dual listed with HIS 178)

A 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 GE-SDES, SUSC; SUNY GEN ED-GAMH, GSBS; NCC GEN ED-SBS, WESH, PLDI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Africana Studies*

### **AFR 201 - History of the Black Woman in America II**

**Prerequisites:** HIS 178 or AFR 200 or permission of instructor, completion of RDG 001 and/or RDG 002.

**Description:** A historical continuation of the History of the Black Woman, from 1900 to the Post World War II Era, the decade of the 1990's and the contemporary scene.

Emphasis centers on her problems, roles and experiences in America, her changing role in the workplace, church, professions and society and the current Black Feminist Thought in the New Black Feminist Movement.

SUNY GEN ED-GAMH, GSBS; NCC GEN ED-SBS, WESH, PLDI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Africana Studies*

### **AFR 203 - The Afro-Caribbean World**

**Description:** (Dual listed with HIS 221)

A 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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GOWC, GSBS; NCC GEN ED-GLNW, WESH, PLDI, SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Africana Studies*

### **AFR 295 - Independent Study-Africa**

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

**Credit Hours:** 3

**Department:** Africana Studies

# 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:** 1

**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 116, AHS 131, 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 116

**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 116 and CHE 131

**Corequisites:** AHS 104, AHS 117

**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 113 - Respiratory Care III Lecture

**Prerequisites:** AHS 212

**Corequisites:** AHS 314 and AHS 413

**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 abnormalities, 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. (2 lecture hours)

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

**Offered:** Fall

**Credit Hours:** 2

**Department:** Allied Health Sciences

### AHS 114 - Respiratory Care IV Lecture

**Prerequisites:** AHS 113, AHS 314, AHS 413.

**Corequisites:** AHS 214 and AHS 414

**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. (2 lecture hours) SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Spring*

**Credit Hours: 2**

*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 AHS 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 116, AHS 131

**Corequisites:** AHS 104, AHS 112, AHS 132

**Description:** 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 AHS 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 117, AHS 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 AHS 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 AHS 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 121 - Surgical Technology I**

**Description:** Orientation to hospital organization, administration, and physical structure, with concentration on surgical areas. Interpersonal relationships, stressing patient welfare 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 122 - Surgical Technology II**

**Prerequisites:** AHS 121

**Description:** Development of knowledge and skills required of 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 plaster application. Selected laboratory and clinical experience in the hospital setting includes exposure to the Endoscopy Unit and Central Supply. (4 lecture, 3 laboratory hours, 4 practicum hours) Laboratory fee applies.

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

*Offered: Spring*

**Credit Hours: 6**

*Department: Allied Health Sciences*

### **AHS 123 - Surgical Technology III**

**Prerequisites:** AHS 122

**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 practicum hours) Laboratory fee applies.

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

*Offered: Fall*

**Credit Hours: 8**

*Department: Allied Health Sciences*

### **AHS 124 - Surgical Technology IV**

**Prerequisites:** AHS 123

**Description:** General orientation to specific surgical specialties including genitourinary, 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 lecture, 12 practicum hours) Laboratory fee applies.

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

*Offered: Spring*

**Credit Hours: 8**

*Department: 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) Laboratory fee applies.  
SUNY GE- SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Allied Health Sciences

### 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) Laboratory fee applies.  
SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Allied Health Sciences

### 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.

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

**Offered:** Fall

**Credit Hours:** 3

**Department:** Allied Health Sciences

### 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.

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

**Offered:** Fall

**Credit Hours:** 3

**Department:** Allied Health Sciences

### 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.

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

**Offered:** Spring

**Credit Hours:** 3

**Department:** Allied Health Sciences

### AHS 147 - Survey of Anatomy & Physiology

**Description:** This one-semester course presents basic introductory information on Human Anatomy and Physiology. An overview of structures and functions of the systems of the human body will be discussed along with the scientific method. This course is for students who are interested in pursuing a degree in the wide range of medical sciences. This course is recommended as preparation for Human Anatomy and Physiology I, Human Anatomy and Physiology II, and medical entrance exams.

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

**Offered:** Fall, Winter, Spring, Summer

**Credit Hours:** 3

**Department:** Allied Health Sciences

### AHS 151 - Physical Therapist Assistant I

**Corequisites:** AHS 234

**Description:** Majors only co-requisite AHS 234. The first of eight sequential courses in the Physical Therapist Assistant Program. The lecture includes an introduction to physical therapy across the lifespan, Scope of Physical Therapist Assistant practice and integration within the rehabilitation team, pathological conditions. The laboratory includes vital signs, body mechanics, transfers, gait training and activities of daily living (3 lecture, 3 laboratory, 3 practice laboratory hours). Laboratory fee applies.

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

**Offered:** Fall

**Credit Hours:** 4

**Department:** Allied Health Sciences

### AHS 152 - Physical Therapist Assistant II

**Prerequisites:** AHS 151, AHS 234.

**Description:** The lecture includes orthopedic and neurological conditions requiring physical therapy. The laboratory is an introduction to exercise including passive, active assistive,

active resistive and progressive resistive range of motion, stretching, goniometry, and exercise equipment. Clinical application of skills occurs in a local facility. (6 lecture hours, 3 laboratory hours, 3 practice laboratory, 3 clinic hours.) Laboratory fee applies.

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

**Offered:** Spring

**Credit Hours:** 7

**Department:** Allied Health Sciences

### AHS 153 - Physical Therapist Assistant III

**Prerequisites:** AHS 154

**Corequisites:** AHS 155

**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.

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

**Offered:** Fall

**Credit Hours:** 3

**Department:** Allied Health Sciences

### 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 fee applies.

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

**Offered:** Summer

**Credit Hours:** 3

**Department:** Allied Health Sciences

### AHS 155 - Physical Therapist Assistant V

**Prerequisites:** AHS 154

**Corequisites:** AHS 153

**Description:** The lecture includes current issues and practices in physical therapy. The laboratory involves regionally designed exercises and advanced therapeutic exercise techniques for a variety of patients. One day per week is spent in the clinic. (3 lecture, 3 laboratory, 3 practice laboratory, 8 clinic hours.) Laboratory fee applies.

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

**Offered:** Fall

**Credit Hours:** 4

*Department: Allied Health Sciences*

### **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 fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Offered:** Spring

**Credit Hours:** 4

*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 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:** Spring

**Credit Hours:** 3

*Department: Allied Health Sciences*

### **AHS 158 - 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:** 1

*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 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-n/a

**Offered:** Fall

**Credit Hours:** 4

*Department: Allied Health Sciences*

### **AHS 202 - Medical Microbiology**

**Prerequisites:** Students must have a minimum grade of C in AHS 132, Anatomy and Physiology 2, in order to register for AHS 202.

**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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-n/a

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

*Department: Allied Health Sciences*

### **AHS 203 - Clinical Pathology**

**Prerequisites:** AHS 131, AHS 132

**Description:** Pre or Concurrent Requisites: AHS 201

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 includes instruction and practice in various areas of the clinical laboratory. It provides a comprehensive study of hemostasis (the mechanisms of hemostasis, fibrinolysis and hemostatic control) and urinalysis (the principles of physical, chemical and microscopic fluid analyses). Fundamentals of phlebotomy are also introduced. Students practice routine diagnostic methods in these laboratory disciplines with emphasis on principles, sources of error, interpretation, and clinical correlation of results.

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

**Offered:** Spring

**Credit Hours:** 3

**Department:** 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 211 - Clinical Internship II**

**Prerequisites:** AHS 209 and AHS 210.

**Description:** This course is open to only those senior MLT students who have successfully

completed AHS 210. Duration 15 weeks. Students assigned to area hospitals or laboratories will complete the balance of their clinical training.

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

**Offered:** Summer

**Credit Hours:** 3

**Department:** Allied Health Sciences

### **AHS 212 - Respiratory Care Clinical I**

**Prerequisites:** AHS 313

**Description:** Comprehensive clinical practicum at an affiliating hospital. The student will practice clinically the procedures learned during AHS 311, AHS 312, AHS 313, and AHS 104. (40 clinical hours per week for 5 weeks). Registration is limited to students enrolled in the Respiratory Therapy program. Lab fee applies.

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

**Offered:** Summer

**Credit Hours:** 2

**Department:** Allied Health Sciences

### **AHS 214 - Respiratory Care Clinical IV**

**Prerequisites:** AHS 113, AHS 314 and AHS 413. C

**Corequisites:** AHS 114 and AHS 414.

**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 assesment 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. (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 215 - Diagnostic Microbiology**

**Prerequisites:** AHS 131, AHS 132, AHS 201, AHS 202

**Description:** Pre or Concurrent Requisites: AHS 209, AHS 210

A continuation of AHS 202, this course provides an overview of diagnostic microbiology that is relevant and essential for a career as a medical laboratory technician. It includes discussion of the microorganisms of importance and basic test procedures commonly encountered in clinical settings. While bacteriology is the emphasis, mycology, parasitology, and virology will also be included. For MLT majors only.

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 abnormalities, 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 217 - Respiratory Care IV Lecture**

**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 114.

Students who have completed AHS 114 will not receive credit for AHS 217. (2 lecture hours)

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

**Offered:** Spring

**Credit Hours:** 2

**Department:** Allied Health Sciences

### **AHS 218 - Respiratory Care IV Lab**

**Prerequisites:** AHS 119.

**Corequisites:** AHS 216 and AHS 219.

**Description:** The comprehensive study of the techniques and procedures of airway management, weaning from mechanical ventilation, bronchial hygiene, arterial sampling and noninvasive ventilation. Topics also covered are diseases of the neonatal and pediatric patient as well as the associated respiratory care equipment and treatment modalities and an introduction to home care, long term care, and pulmonary rehabilitation. Laboratory practice with respiratory care equipment and role playing in problem-solving situations. Formerly AHS 314. Students who have completed AHS 314 will not receive credit for AHS 218. (8 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

**Department:** Allied Health Sciences

### **AHS 219 - Respiratory Care Clinical II**

**Prerequisites:** AHS 119.

**Corequisites:** AHS 216 and AHS 218.

**Description:** Comprehensive clinical experiences in multiple clinical rotations including experience in medical and surgical intensive care, physical assessment, patient evaluation and nursing arts in the acute care hospital setting, pulmonary function testing and respiratory care in the subacute care setting. 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 three semesters of 'on campus' study. Under supervision of College faculty, the student will apply to the patient such therapeutics as medical gas therapy, aerosol therapy, mechanical ventilation, artificial airways, and airway care, and diagnostic pulmonary function testing as well as physical assessment and evaluation techniques. Formerly AHS 413. Students who have completed AHS 413 will not receive credit for AHS 219. (8 clinical hours) Lab fee applies.

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

**Fall Only**

**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 223 - Clinical Chemistry**

**Prerequisites:** CHE 131, 132 or CHE 151, 152

**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 the 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 hours, 6 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 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-n/a

**Offered:** Fall

**Credit Hours:** 4

*Department: Allied Health Sciences*

**AHS 235 - PTA Clinical Affiliation I**

**Prerequisites:** AHS 151, AHS 101, AHS 234, AHS 131

**Description:** Corequisites: AHS 252

This course is only open to Physical Therapist Assistant students. It is a 4-hour primary clinical course in a local facility. Clinical application of skills occurs in the facility under the direct supervision and expertise of a faculty member.

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

**Offered:** Spring

**Credit Hours:** 1

*Department: Allied Health Sciences*

**AHS 236 - PTA Clinical Affiliation II**

**Prerequisites:** AHS 154

**Description:** Corequisites: AHS 255, AHS 153

This course is only open to Physical Therapist Assistant students. It is a one day per week 8-hour secondary clinical experience as a Physical Therapist Assistant Student in a Physical Therapy setting.

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

**Offered:** Fall

**Credit Hours:** 2

*Department: Allied Health Sciences*

**AHS 237 - PTA Clinical Affiliation III**

**Prerequisites:** AHS 255, AHS 153, AHS 256

**Description:** Concurrent Requisites: SPS 201  
Corequisites: AHS 156, AHS 238

This course is only open to Physical Therapist Assistant students. Full-time clinical practice as a physical therapist assistant student in a physical therapy setting is required. Affiliated sites include sports medicine facilities, outpatient clinics, schools, rehabilitation centers, nursing homes, hospitals, home care, and other health service agencies. (40 hours per week/6 weeks.).

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

**Offered:** Spring

**Credit Hours:** 4

*Department: Allied Health Sciences*

**AHS 238 - PTA Clinical Affiliation IV**

**Prerequisites:** AHS 255, AHS 153, AHS 156

**Description:** Concurrent Requisites: SPS 201  
Corequisites: AHS 156, AHS 237

This course is only open to Physical Therapist Assistant students only. This is a terminal clinical course. Full-time clinical practice as a physical therapist assistant student in a physical therapy settings is required. Affiliated sites include: sports medicine facilities, outpatient clinics, schools, rehabilitation centers, nursing homes, hospitals, home care,

and other health service agencies. (40 hours per week/6 weeks.).

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

**Offered:** Spring

**Credit Hours:** 4

*Department: Allied Health Sciences*

**AHS 240 - Radiologic Technology I Lecture**

**Prerequisites:** ENG 101 and MAT Elective.

**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 241 - Radiologic Technology I Laboratory/ Clinic**

**Prerequisites:** ENG 101 and MAT Elective.

**Corequisites:** AHS 101, AHS 131 and AHS 240.

**Description:** A four-week laboratory orientation unit to prepare students for clinical education followed by 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. Upon successful completion of the orientation unit, students will begin 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:** Fall

**Credit Hours:** 5

*Department: Allied Health Sciences*

**AHS 242 - Radiologic Technology II Lecture**

**Prerequisites:** AHS 101, AHS 131 and AHS 241.

**Corequisites:** AHS 132 and AHS 243.

**Description:** Lectures in radiographic quality, special radiographic techniques, electricity and x-ray circuitry. (3 lecture hours)

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

**Offered:** Spring

**Credit Hours:** 3

*Department: Allied Health Sciences*

**AHS 243 - Radiologic Technology II Laboratory/ Clinic**

**Prerequisites:** AHS 101, AHS 131, AHS 241 and AHS 242.

**Corequisites:** AHS 132 and AHS 242.

**Description:** Instruction and practice in an energized x-ray laboratory to include selected routine and special radiographic examinations of 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*

**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 & 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 252 - Physical Therapist Assistant II****Prerequisites:** AHS 151, AHS 234, AHS 101**Description:** Corequisites: AHS 235 For students in the Physical Therapist Assistant Program only. The lecture includes orthopedic and neurologic conditions requiring physical therapy. The laboratory is an introduction to exercise including: passive, active assistive, active resistive and progressive resistive range of motion, stretching, goniometry and exercise equipment.

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

**Offered:** Spring**Credit Hours:** 7**Department:** Allied Health Sciences**AHS 255 - Physical Therapist Assistant V****Prerequisites:** AHS 235, AHS 154, AHS 252**Description:** Corequisites: AHS 236, AHS 153

This course is only open to Physical Therapist Assistant students. The lecture includes current issues and practices in physical therapy.

The laboratory involves regionally designed exercises and advanced therapeutic exercise techniques for a variety of patients.

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

**Offered:** Fall**Credit Hours:** 4**Department:** Allied Health Sciences**AHS 261 - Radiation Therapy Lecture I****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 262 - Radiation Therapy Clinic I****Corequisites:** AHS 261.**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 263 - Radiation Therapy Lecture II****Prerequisites:** AHS 261 and AHS 262.**Corequisites:** AHS 264.**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 264 - Radiation Therapy Clinic II****Prerequisites:** AHS 261 and AHS 262.**Corequisites:** AHS 263**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 265 - Radiation Therapy Clinic III****Prerequisites:** AHS 263 and AHS 264.**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 266 - 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 267 - Radiation Therapy Clinic IV****Prerequisites:** AHS 265.**Corequisites:** AHS 266.**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 268 - Radiation Therapy Lecture IV****Prerequisites:** AHS 266.**Corequisites:** AHS 269.**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 fractionation and reaction to treatment.

Emphasis on 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 Clinic V

**Prerequisites:** AHS 267.

**Corequisites:** AHS 268

**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:** Spring

**Credit Hours:** 3

**Department:** Allied Health Sciences

### AHS 270 - Radiation Therapy Clinic VI

**Prerequisites:** AHS 269.

**Description:** Clinic VI. Clinical education in Radiation Therapy Technology. Experience is obtained at one of several area 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 295 - Independent Study-AHS

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

**Credit Hours:** 3

**Department:** Allied Health Sciences

## Animation

### ANI

#### ANI 101 - Animation I

**Description:** This course provides the foundation for traditional animation techniques and introduction to animation through the Twelve Principles of Animation. Students will explore traditional animation techniques with an emphasis on figurative drawing and learn to transfer their work to digital format. The course will present concept and story development, production as well as the history and media theory of moving pictures, sound and animation. Average 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

#### ANI 102 - Animation II

**Description:** Prerequisite: ANI 101

This course will focus on a study of established practices in the field of animation. Traditional methods are combined with animation and imaging software. The focus is on individual creative growth. Fundamentals concerning the application of physics to animated movement will be covered. In addition, character emotions and body mechanics will be explored. Average cost of supplies: \$100. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

## Anthropology

### ANT

#### ANT 203 - Physical Anthropology

**Description:** The major problems, methods and theories of physical and biocultural anthropology. Topics include: primatology, human origins, evolutionary processes, human variation, origins of language, and the interaction of nature, culture and society. SUNY GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

#### ANT 204 - Cultural Anthropology

**Description:** Explores cultures holistically in preindustrial and non-Western and Western societies. Topics include: ecology and environment, economic organization, kinship and marriage patterns, political organization, social structure, religious organization, rituals, ideas, values and world view. Other topics are culture contact, technological development, and culture change.

SUNY GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS, PLDI, GLNW

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

#### ANT 205 - Women and Men in Cross-Cultural Perspective

**Prerequisites:** SOC 201 or ANT 203 or permission of instructor.

**Description:** This course uses anthropological studies to understand women and men in different cultures around the world. Gender differences are explored from a cross-cultural perspective in relation to such topics as: kinship, work, power relations, religious beliefs, sexuality, life cycle, roles and status. SUNY GEN ED-GSBS; NCC GEN ED-PLDI, SBS, GLNW

**Offered:** On Occasion

**Credit Hours:** 3

**Department:** Sociology/Anthropology/SociWrk

#### ANT 206 - Introduction to Archaeology

**Description:** The course introduces the methods and techniques used by archaeologists to understand the past, while exploring ancient cultures across the world, and including current cultural heritage management and preservation issues.

SUNY GE-SSBS; SUNY GEN ED- GOWC, GSBS; NCC GEN ED: GLNW, PLDI; SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

#### 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.

SUNY GE-SSBS; SUNY GEN ED- GOWC, GSBS; NCC GEN ED: GLNW; PLDI; SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

#### ANT 208 - Anthropology in Action

**Description:** The course explores the application of anthropology in everyday situation in a global society with a focus on topics related to cultural and biological variation. Topics include: application for developing practices suited for business, cultural awareness, innovation, appropriate technology, and the practical use of anthropology for understanding and solving contemporary problems.

SUNY GE-SSBS; SUNY GEN ED: GOWC, GSBS; NCC GEN ED: GLNW; PLDI; SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

## Arabic

### ARA

#### ARA 101 - Beginning Arabic I

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM  
**Offered:** Fall, Spring, Summer  
**Credit Hours:** 3

**Department:** Foreign Languages

### ARA 102 - Beginning Arabic II

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required. SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM  
**Offered:** Fall, Spring  
**Credit Hours:** 3

**Department:** Foreign Languages

## Art

### 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 GE-SHUM; 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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH  
**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Art

#### ART 103 - Art History (Baroque through Realism)

**Prerequisites:** Completion of remedial courses in English and Reading.

**Description:** Architecture, sculpture and painting in Europe and the Americas from the 17th century through the mid 19th century.

SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH

**Offered:** Spring

**Credit Hours:** 3

**Department:** Art

#### ART 104 - Modern and Contemporary Art

**Prerequisites:** Completion of remedial courses in English and Reading.

**Description:** Art from 1940 to the present, with special attention given to modern European and American art as a foundation. 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 GE-SHUM; 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 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.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Art

#### 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 GE-SART; 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-HUM

**Credit Hours:** 3

**Department:** Art

#### ART 108 - Advertising Art

**Description:** Pre or Concurrent Requisites: ART 130 or permission or 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 GE-SART; 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 methods 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 GE-SART; 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 GE-SART; 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 GE-SART; 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 GE-SART, SHUM; 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*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 GE-SART; 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-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 122 - 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring, Summer*

*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 GE-SART; 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, socio-cultural history, and technical advances in the field. Major photographers and trends will be analyzed.

SUNY GE-SHUM; SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 125 - Photography I**

**Description:** A basic foundation in the techniques and aesthetics of black and white photography with emphasis on the camera, film processing, print development, the digital darkroom and portfolio preparation. A 35-mm camera capable of manual operation to be provided by the student. Average cost of supplies: \$225 (does not include manual 35-mm camera). Laboratory fee applies.

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

*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 GE-SART; SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 129 - Gallery Survey**

**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 experience with industry standard software used to create commercial and fine art images. 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 GE-SART, SHUM; SUNY GEN ED-GART; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 133 - Graphic Design III**

**Prerequisites:** ART 131 and ART 140

**Description:** Hands-on experience with desktop publishing and computer hardware and software used to create professionally designed publications. Topics include word processing, page layout, creating and scanning images, typography, and print production. 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 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.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 136 - Fashion Art Techniques I**

**Prerequisites:** ART 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. Average cost of supplies: \$75. Laboratory fee applies.

SUNY GEN ED-n/a; NCC GEN ED-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 GE-SART; 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 GE-SART; SUNY GEN ED-GART;

NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 139 - Animation and Dynamic Design**

**Prerequisites:** ART 131 and ART 137.

**Description:** Basic to intermediate animation techniques with an interactive design using various computer-generated imagery (CGI) and popular design applications. This course

introduces the basic principles of composition, color, light, and motion applied to animation, focusing primarily on brand identity and interactive media. In addition, the course will give insight into theories, principles, and skills of dynamic design. Design for the screen, effective use of text, graphical elements, video, and motion, understanding fluid identity, and data drive adaptable Design are covered. These skills will be applied in projects that stress conceptual, design techniques, presentation, and technical development, concentrating on brand identity development. 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 GE-SART, SHUM; SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 141 - History of Graphic Design**

**Prerequisites:** Completion of remedial courses in English and Reading.

**Description:** A survey of the history of graphic design from the beginning of the written word through today, including discussions on typography, printing press, posters, Bauhaus, propaganda and digital media.

SUNY GE-SART; SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM, PLDI, WESH

*Offered: Fall, Spring, Summer*

*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. Lab fee applies.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 201 - Ancient Through Medieval Art**

**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 GE-SHUM; SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Art*

### **ART 202 - Renaissance Through Modern Art**

**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 GE-SHUM; SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH

*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 GE-SHUM; 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 225 - Photography II**

**Prerequisites:** ART 125 or permission of Photography Coordinator.

**Description:** An intermediate photography course involving advanced camera and darkroom photo techniques, both film based and digital. 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: \$225. Laboratory fee applies.

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

*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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 227 - Studio Photography**

**Prerequisites:** ART 159

**Description:** This course offers students a foundation in studio and location photography exploring editorial, portraiture, and still life projects. Students will learn multiple professional lighting technologies including tungsten, LED, and electronic flash systems. Emphasis is placed on critical thinking skills and creative problem-solving techniques in the production of personal projects. Medium format and other digital cameras are available for student use. Average cost of supplies: \$100. Laboratory fee applies.

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

*Offered: 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-FAPA; 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, 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 GE-SART; SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Art*

### **ART 232 - Professional Developmental: Practices and Procedures**

**Prerequisites:** ART 105 or ART 111 or ART 159 or permission of Chair

**Description:** This lecture and studio-based course offers an introduction to the skills and practices needed to become a professional fine artist or commercial photographer. Topics include exploring career options, self-promotion (printed materials and online presence), writing artist statements, applying for art exhibitions, competitions, artist residencies, grants, and freelance jobs, as well as the basics of running a business including budgeting, estimates, contracts, and record-keeping. Lessons will include follow-up practical exercises to reinforce learning. Over the course of the semester students will create print and digital promotional materials and portfolios using their own artwork. Average cost of materials: \$125.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

### **ART 235 - Fashion Art Techniques II**

**Prerequisites:** ART 135 and ART 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. Average cost of supplies: \$75. Laboratory fee applies.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Art

### **ART 236 - Fashion Art Techniques III**

**Prerequisites:** ART 135, ART 136 and ART 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. Average cost of supplies: \$75. 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 Visual 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 GE-SART; 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**

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

**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 customs, traditions and history of the deaf community. Laboratory component and attendance at Deaf community events required.

SUNY GE-SDES, SHUM; SUNY GEN ED-GFOL, GHUM; HUM; NCC GEN ED-n/a

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Communications

**ASL 153 - American Sign Language II**

**Prerequisites:** ASL152 and must have satisfied all ENG and RDG 001 remediation requirements prior to starting the course.

**Description:** Continuation of basic American Sign Language and Deaf culture, with opportunities to build receptive and expressive sign vocabulary, phrases and conversational skills; use of Non-Manual Markers; continued fingerspelling practice. Laboratory component and attendance at Deaf community events required. br> SUNY GE-SDES, SHUM; 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 GE-SDES, SHUM; SUNY GEN ED-GSBS; HUM; 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 GE-SDES, SHUM; 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 knowledge of vocabulary, grammatical features, conversational and narrative skills. Laboratory component and attendance at Deaf community events required.

SUNY GE-SDES, SHUM; SUNY GEN ED-GFOL, GHUM; HUM; NCC GEN ED-n/a

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Communications

## Astronomy

### AST

**AST 101 - Exploring the Solar System**

**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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

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

**AST 102 - Discovering Stars and Galaxies**

**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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

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

## 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

**BIO 103 - Ecology**

**Description:** A study of the relationships between the living and non-living components of the biosphere. The student examines dynamics and complexities of ecosystems, communities and populations of organisms. An examination of human impact and value systems upon ecosystems is considered throughout the course. Field work is undertaken when applicable. (3 lecture, 3 laboratory hours) Laboratory fee applies. SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

**BIO 104 - Zoology**

**Description:** A survey of the structure, physiology, adaptations, and life cycles of animals. Laboratory includes a study of microscopic forms, dissection of more advanced invertebrates, and selected vertebrates including frog, fetal pig, and perch. Field trip identification of local fauna is included as one of the course objectives. Course fulfills one semester of a laboratory science for students who have interest in or desire to pursue studies in zoology, wildlife, marine biology, and ecology. (3 lecture, 3 laboratory hours) Laboratory fee applies. SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

**BIO 107 - Phage Hunters - Discovery**

**Prerequisites:** Successful completion of all developmental/remedial coursework.

**Description:** Phage Hunters - Discovery is the first of a two-semester research based-laboratory course sponsored by the Howard Hughes Medical Institute Science Education Alliance. Students will isolate bacteriophages from local soils samples, purify and characterize their phages, and select one phage per class for genetic sequencing. Students in the course will make significant contributions to the field of genomics while gaining skill in the process of scientific inquiry, hypothesis development and testing, and practice in common microbial techniques. SUNY GE-SSCI; NCC GEN ED-LSCI.

**Offered:** Fall

**Credit Hours:** 4

**Department:** Chemistry

**BIO 108 - Phage Hunters - Genomics and Bioinformatics**

**Prerequisites:** Successful completion of all developmental/remedial coursework.

**Description:** Phage Hunters - Genomics and Bioinformatics is the second of a two-semester research based-laboratory course sponsored by the Howard Hughes Medical Institute Science Education Alliance. Students will characterize and analyze the genomes of phages obtained in the wild with bioinformatics tools and compare their discoveries with those of phages isolated at other locations around the United States. The research goals of this course will be to identify bacteriophage genes and their organization, examine their similarities and differences that may characterize different phage groups, and determine how these groups may have arisen during evolution. SUNY GE-SSCI; NCC GEN ED-LSCI.

**Offered:** Spring

**Credit Hours:** 4

**Department:** Chemistry

**BIO 109 - General Biology I**

**Prerequisites:** High school biology, high school chemistry (or equivalent, such as CHE 107), successful completion of all remedial English, reading, and math requirements.

**Description:** This is the first course in the BIO 109 - BIO 110 sequence. This sequence is intended for students majoring in the sciences, including the health sciences, and secondary science education. These courses cover the basic concepts of biology that are derived from the study of living things. In the first semester, emphasis is placed upon the molecular and 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 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 I". (3 lecture, 3 laboratory hours) Laboratory fee applies to each course.

SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

**BIO 110 - General Biology II**

**Prerequisites:** BIO 109.

**Description:** This is the second course in the BIO 109 - BIO 110 sequence. This sequence is intended for students majoring in the sciences,

including the health sciences, and secondary science education. These courses cover the basic concepts of biology that are derived from the study of living things. In the first semester, emphasis is placed upon the molecular and 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Spring*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-NSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 121 - A Survey of Mammals**

**Description:** The course introduces students to the biology of mammals. The characteristics of mammals, how they evolved and their phylogenetic relationships are examined. A survey of the living mammalian orders, their features, life history characteristics, physiological and behavioral specializations, and habitat and ecological significance is discussed. Field trips are a required portion of the course.

SUNY GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-NSCI

*Offered: Spring*

*Credit Hours: 3*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Fall, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Chemistry*

### **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. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: On Occasion*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 131 - Pathophysiology**

**Prerequisites:** AHS 131 and AHS 132

**Description:** The course is designed to familiarize students with a host of clinical diseases and their signs, symptoms, risk factors, and treatments. Case studies will be used throughout the course: including use of Internet information from national disease websites. Students will also be required to demonstrate their knowledge of human anatomy.

SUNY GE-SSCI; SUNY GEN ED-n/a; NCC  
GEN ED-NSCI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Chemistry*

### **BIO 150 - Biology for Educators**

**Prerequisites:** Successful completion of all developmental/remedial coursework.

**Description:** This course will prepare future educators to understand fundamental biological concepts and theories through lectures and experiments. The characteristics of living things, including the transmission of genetic information and mechanisms of evolution, will be considered. This course will also explore life processes that maintain equilibrium at both the organismal and ecological levels.

NCC GEN ED-LSCI.

*Offered: Fall*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 2*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 2*

*Department: Chemistry*

### **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. SUNY GE-SSCI; NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 201 - Anatomy**

**Prerequisites:** 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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-LSCI

*Offered: Fall, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEB ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Spring, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: On Occasion*

*Credit Hours: 4*

*Department: Chemistry*

### **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 of course. (3 lecture, 3 laboratory hours, including field trips) Laboratory fee applies.

SUNY GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI

*Offered: Fall, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 209 - Principles of Nutritional Science**

**Prerequisites:** BIO 109 and BIO 110  
Recommend

**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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-LSCI

*Offered: On Occasion*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 210 - Current Concepts in Nutritional Science**

**Prerequisites:** BIO 109 and BIO 110 (maybe co-requisite) or AHS 131 and AHS 132 (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 BIO 226 will not receive credit for BIO 210.

SUNY GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-NSCI

*Offered: On Occasion*

*Credit Hours: 3*

*Department: Chemistry*

### **BIO 211 - Developmental Biology**

**Prerequisites:** 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

*Offered: Spring*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 212 - Comparative Anatomy**

**Prerequisites:** 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

*Offered: Spring*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 215 - Histology**

**Prerequisites:** 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

*Offered: On Occasion*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-LSCI

*Offered: Fall*

*Credit Hours: 4*

*Department: Chemistry*

### **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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-LSCI

*Offered: On Occasion*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 221 - Transmission Electron Microscopy**

**Prerequisites:** BIO 109 and BIO 110 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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-LSCI

*Offered: Fall*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 222 - Scanning Electron Microscopy**

**Prerequisites:** BIO 109 and BIO 110 or permission of the Department.

**Description:** An introduction to the theoretical and practical concepts of biological scanning electron microscopy (SEM). Topics studied include SEM optical principles, preparative techniques, SEM photographic techniques, SEM micrograph analysis. Through hands-on SEM operation, students will produce a portfolio of micrographs of a variety of biological samples. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-LSCI

*Offered: Spring*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 226 - Investigations in Human BioNutrition**

**Prerequisites:** BIO 101 or BIO 115 or permission of the Department

**Description:** This course explores current theories and controversies in the field of nutritional science. Students will evaluate research trends and critically analyze the influence of nutrition on health promotion and disease prevention. Beginning Fall 2017 students who have completed BIO 210 will not receive credit for BIO 226.

SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-NSCI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Chemistry*

### **BIO 230 - Molecular Approaches to Modern Medicine**

**Description:** Prerequisite: BIO 109; Corequisite BIO 110

Molecular Medicine is highly dynamic, fast evolving field of life science research. It combines classical disciplines such as cell biology, molecular biology, biochemistry and medicine. This course will provide an introduction to molecular medicine and advances in the field. Topics will include the basic principles of molecular medicine, discoveries in cellular and molecular biology, disease mechanisms and development, clinical research, therapy, biomedical ethics and personalized medicine. Students interested in the medical field will greatly benefit from this course. SUNY GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-NSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Chemistry*

### **BIO 231 - Biotechnology: Recombinant DNA Science**

**Prerequisites:** BIO 109, BIO 110, MAT 109 or higher, CHE 151 or higher or permission of the Department.

**Description:** An investigation of DNA, the molecule of the gene, and recombinant DNA technology (genetic engineering). The student will explore the Central Dogma of gene structure and function; gene regulation in embryology and in cancer development. Applications of biotechnology to human genetics, forensics, gene cloning, agriculture, medicine and industry are included. Through

hands-on biotechnology laboratories, students will perform fundamental modern recombinant DNA techniques, including bacterial transformation, restriction enzyme analysis and polymerase chain reaction. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

*Offered: On Occasion*

*Credit Hours: 4*

*Department: Chemistry*

### **BIO 295 - Independent Study-Biology**

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

*Credit Hours: 3*

*Department: Chemistry*

## **Business**

### **BUS**

#### **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-n/a

*Offered: Fall, Spring, Summer*

*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 110 - Introduction to Business**

**Description:** An introduction to the role of business in American life as a primary source of goods, services, employment and income. The course provides the beginning business student and the non-business student with an understanding of the basic nature and scope of business and its relation to government and all members of society. Students examine the operation and activities of large and small enterprises and the interrelationship of the various specialized fields of business.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Accounting and Business Admin*

#### **BUS 111 - Entrepreneurship**

**Description:** An introduction to the management of small business. The course covers the role of small business in the economy, and is designed both for those interested in establishing businesses as well as those who have already established them.

Emphasis is placed on development of a managerial philosophy for entrepreneurs, managers, and potential managers. Course work includes operational techniques, legal and environmental relationships, and analysis of the risks and rewards of managing or owning small enterprises.

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

*Offered: Fall, Spring*

*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 130 - Current Issues in Business**

**Description:** This course will analyze current issues in business so students will think critically and creatively to address these issues with solutions. Current events, journal articles, case studies, discussions and the textbook will be utilized to engage students.

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

*Offered: Fall, Winterim, Spring, Summer*

*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 GE-SDES; 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: 3*

*Department: Accounting and Business Admin*

### **BUS 180 - Sport Facility Management**

**Description:** An overview of the challenges and issues facing sport facility managers. The course will introduce students to issues such as introduction to sport facility management, facility management, facility systems and operations, facility administration and event and activity management.

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

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: Accounting and Business Admin*

### **BUS 280 - Introduction to Sports Management**

**Description:** An overview of the structure of the sports industry, as well as issues facing sports organizations. Emphasis on how management techniques can be applied to solve sports business problems. Discussion of sports management career opportunities will be included.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Accounting and Business Admin*

### **BUS 288 - Co-op Partnership with Industry**

**Prerequisites:** Completion of remedial and/or ESL courses are required. In addition, students must have completed a minimum of 12 credits and be in good academic standing prior to the commencement of the course or obtain permission of the chairperson. Students who are not department majors must be recommended by an instructor and obtain the permission of the department chairperson.

**Description:** The course provides supervised, practical, paid, full-time experience at institutions that offer students opportunities to which they apply concepts learned in the classroom. Written reports demonstrating the understanding of theories and their applications are an integral part of the curriculum. Travel and living expenses may be incurred contingent upon placement. Formerly BUS 600. Students who have completed BUS 600 will not receive credit for BUS 288.

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

*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 295 - Independent Study-Business**

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

*Credit Hours: 3*

*Department: Accounting and Business Admin*

# Civil Engineering Technology

## CET

### CET 001 - College Preparatory Physics

**Description:** (Dual Listed with ELT 001 and PHY 001)

A non-credit one-semester course for students lacking a high school background in physics. The course will cover selected topics in mechanics, hydraulics, heat, sound, light and electricity. Emphasis will be placed on problem solving. The theory will be heavily supplemented by demonstrations. Report writing and the reporting of experimental data will be stressed. (3 lecture, 3 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 0

**Department:** Engineering/Physics/Tech

### 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

**Credit Hours:** 2

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

### CET 103 - Introductory Civil Engineering Technology

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

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

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

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

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

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

### 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.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

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

### 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:** Spring

**Credit Hours:** 3

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

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

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

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

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

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

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

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

### **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. This 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: Math/Computer Science/Info Tec*

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

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

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

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

## 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 GE-SSCI; 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 GE-SSCI; 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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-NSCI

**Offered:** Spring, Summer

**Credit Hours:** 3

**Department:** Chemistry

#### CHE 110 - Introduction to Chemical Technology

**Description:** The purpose of this orientation course is to provide students an overall view on the chemical industry primarily for employment as a chemical technician. The course will help students gain an insight in the chemical field and basic laboratory skills. The topics covered include collecting and preparing data, interpretation of graphs, study skills, writing reports, literature search and presentation. It may also involve field trips to neighboring industries.

SUNY GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-NSCI

**Offered:** Fall, 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** Chemistry

#### CHE 132 - College Chemistry II

**Prerequisites:** Completion of College Chemistry I (CHE 131), and all ENG, RDG and MAT remediation requirements.

**Description:** College Chemistry II is the second course of a two-course sequence. This course covers fundamental principles of modern chemistry including problem-solving techniques. Topics include thermochemistry,

thermodynamics, kinetics, equilibrium, acid-base theory, solubility products, oxidation-reduction, nuclear chemistry, and organic chemistry. Note: This course is not the designated SUNY Seamless Transfer Path course. Before the Fall 2017 this course was entitled "General Chemistry II" (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GE-SSCI; 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

**Offered:** Fall, Spring

**Credit Hours:** 4

**Department:** Chemistry

#### CHE 151 - General Chemistry I

**Prerequisites:** Completion of all English and Reading developmental courses.

**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. This course is designed for students that have taken high school chemistry. If you have not taken high school chemistry, it is advised that you take

CHE 107 before taking this course. (3 lecture, 3 laboratory hours) Laboratory fee applies. SUNY GE-SSCI; 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. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Chemistry*

### **CHE 155 - Chemical Calculations and Computer Interfaces**

**Prerequisites:** CHE151

**Description:** Concurrent Requisite: CHE152 This course trains students on how to use the computer as both a scientific instrument, and publication tool in the increasingly important field of cheminformatics. Students will use new and familiar software suites to collect scientific data and analyze it. They will also learn how to format and present chemical structures in vector format. A basic introduction to molecular computational chemistry will be presented for the purposes of geometry optimization and reaction modeling. SUNY GEN ED-n/a; NCC GEN ED-NSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 5*

*Department: Chemistry*

*Department: Chemistry*

### **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 GE-SSCI; 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 251 - Analytical Chemistry I**

**Prerequisites:** CHE 151 and CHE 152 or CHE 131 and CHE 132

**Description:** This course is the first in a two-semester course in analytical chemistry. Students are introduced to the fundamental concepts of the chemical analysis. The course discusses analytical methods and techniques in a variety of specific topics: quantitative chemistry in equilibrium applied to acid-base, precipitation, and chelation; electrochemistry; spectroscopy; introductory mass spectrometry; and introductory separation science in chromatography and electrophoresis; etc. Students will be expected to perform chemical analysis; and develop problem-solving and laboratory skills.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 5*

*Department: Chemistry*

### **CHE 252 - Analytical Chemistry II - Instrumental Methods**

**Prerequisites:** CHE 251

**Description:** This course is the second in a two-semester course in analytical chemistry. The course covers the design, operational principles and practical application of modern instrumental methods used in chemical analysis. These methods are used in the separation, identification, and quantification of samples. Using a combination of problem-based learning approaches, case studies and traditional lectures, the student will develop critical thinking skills in the areas of instrument selection, method development and data interpretation.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 5*

*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 GE-SSCI; 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*

### **CHE 297 - Chemistry Research**

**Prerequisites:** Minimum of "C" in CHE 152 or equivalent.

**Description:** This course is designed to give a chemistry-based research experience to undergraduate students. It includes developing problem-solving skills, using critical thinking, understanding scientific processes, and developing an interest in the field of science for future career pathways. It involves research experiences through working on a research project, exploring scientific interest in intellectual challenges, and developing confidence in problem solving through addressing complex research problems. The students will be working either individually or in groups. Students would require meeting weekly with their professor to discuss progress and their composite research plan. The students will require doing weekly journal entries through the learning management system (eg. blackboard) that will be confirmed by the principal investigator for the integrity of information.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Chemistry*

## Chinese

### **CHI**

#### **CHI 101 - Beginning Chinese I**

**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 GE-SWOL; SUNY GEN ED-GFOL; NCC GEN ED-GLNW, HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

#### **CHI 102 - Beginning Chinese II**

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required. SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-GLNW, HUM

*Offered: Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

## Climatology

### **CLI**

#### **CLI 101 - Introduction to Climatology: Climates of the World**

**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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-GLNW, LSCI.

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

## Computer Processing

### **CMP**

#### **CMP 100 - Computing Technology in Today's Society**

**Prerequisites:** All MAT, ENG 001 and RDG 001 developmental courses requirements must be compl

**Description:** Prerequisites: All MAT, ENG 001 and RDG 001 developmental courses requirements must be completed.

This course provides the general liberal arts student with a non-technical overview of the roll 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 Arduinio, an open source electronics platform, and App Inventor, a block language used to develop mobile applications.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*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, presentation software, and an introduction to programming algorithms. Students will have the opportunity to earn digital badges in Digital Competency and PowerPoint Introductory that can be shared with prospective employers via social media sites such as LinkedIn. 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*

#### **CMP 103 - 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, Spring,*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### **CMP 104 - Programming Logic and Problem Solving**

**Prerequisites:** Students must have satisfied all MAT, ENG and RDG remediation 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. (3 lecture hours) Laboratory fee applies.

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

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **CMP 105 - Microsoft Excel Spreadsheets**

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

**Description:** This course covers spreadsheets using Microsoft Excel, the most widely used spreadsheet software in business. Topics include formatting, formulas and functions, charts, tables, pivot tables, what-if analysis tools, multiple worksheets, power add-ins, specialized functions, and basic macros. It is designed for general liberal arts students interested in obtaining comprehensive hands-on training in Excel. Students will have the opportunity to earn digital badges in Excel Introductory and Excel Advanced that can be shared with prospective employers via social media sites such as LinkedIn. (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

*Offered: On Occasion*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### **CMP 110 - Data Communications and the Internet**

**Prerequisites:** At least a C in ITE 101 or CMP 103 or permission of Department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**Description:** 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.

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

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **CMP 112 - Hypermedia**

**Prerequisites:** CMP 103, CMP 110 and CMP 210, or permission of the Department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**Description:** This course introduces the student to the essentials of developing multimedia presentations for on-line documentation and system tutorials. Various commercial computer hardware and software are employed throughout the course. Programming skills are utilized to combine

video and audio, and text to compile effective and powerful presentations. Topics include programmatic animation, image and voice digitizing and their associated file formats, hypertext, system requirements, integration into other software products and presentation techniques. Laboratory fee applies.

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

*Credit Hours: 3*

*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 analysis and design. Electronic spreadsheets are used to emphasize business analysis and decision-making using computers. Students will not receive credit for both CMP 115 and CMP 117. 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*

### **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.

Laboratory fee applies.

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

*Offered: Fall, 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: On Occasion*

*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

*Offered: On Occasion*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **CMP 207 - Computer Organization & Assembly Language Programming**

**Prerequisites:** At least a C in CMP 211. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**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 methods, bit and byte manipulations, I/O, user and system interrupts, routines and macros. Intended for Computer Science majors (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 208 - Network Management**

**Prerequisites:** CMP 103 and CMP 110, or permission of the Department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**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: management of devices, application software and mail systems, data communications, network security, setting up and maintaining user accounts, protecting network data, and network printing. This course contains knowledge units typically needed for professional certification. The lab portion of the course will incorporate a widely used network operating system (4.5 lecture hours). Students may be required to purchase compatible hard drives and/or slide trays. (Approximate cost: \$125) Laboratory fee applies.

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

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### **CMP 209 - Network Server Configuration**

**Prerequisites:** At least a C in CMP 208 or permission of the Department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**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 migration 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. Students may be required to purchase compatible hard drives and/or slide trays. (Approximate cost: \$125) Laboratory fee applies.

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

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **CMP 210 - Computer Science I**

**Prerequisites:** At least a C in CMP 104 or equivalent, or prior programming experience including HS programming courses, or MAT 111 or equivalent including HS pre-calculus, or permission of department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**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. (4 lecture, 2 laboratory hours) Laboratory fee applies.

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

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### **CMP 211 - Computer Science II**

**Prerequisites:** At least a C in CMP 210. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**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. (4 lecture, 2 laboratory hours) Laboratory fee applies.

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

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### **CMP 214 - Applications Development**

**Prerequisites:** CMP 218 or CMP 219, and CMP 252. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**Description:** This course is an introduction to computer programming using a GUI (Graphical User Interface) programming language. Business and information system applications are developed using Visual Basic. The course introduces the concepts of event-driven programming, terms, rules, and programming components. Laboratory fee applies.

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

**Credit Hours:** 3

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

### **CMP 217 - C Programming Language**

**Prerequisites:** At least a C in CMP 211 or CMP 219 or CMP 218, or permission of the Department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**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 traditional C are discussed with emphasis on the former. This course is designed to meet the needs of the student considering further study in the area of Computer Science and Information Processing, and the computer science professional. Laboratory fee applies.

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

**Credit Hours:** 3

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

### **CMP 218 - Java Programming Language**

**Prerequisites:** At least a C in ITE 154, or permission of Department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**Description:** As part of this course, students should avail themselves of further study and/or educational assistance available in the Computer Center in B225. Use of the resources in the Computer Centers is deemed an integral part of the course, and will help the student master necessary knowledge and skills. 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. (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 219 - Object Oriented Programming in C++**

**Prerequisites:** At least a C in CSC 130 or ITE 204 (or equivalent).

**Description:** This is a course in object-oriented design and programming using C++ and is intended for students who already have a firm understanding of the object-oriented paradigm including objects, classes, and inheritance. The topics presented prepare the student for advanced study in Computer Science and Information Systems. Topics include C++ basics, I/O streams, class definition, friend functions and operator overloading, dynamic memory allocation/deallocation, dynamic binding, and virtual functions. Laboratory fee applies.

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

Offered: On Occasion

**Credit Hours:** 3

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

### **CMP 220 - Analysis of Computer Architecture and Software**

**Prerequisites:** At least a C in CMP 207. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**Description:** The fundamentals of computer systems are examined. Computer architecture and the many levels of software systems are studied. Topics include microarchitecture, microprogramming, conventional machine language, operating system software, assemblers, linkers and loaders, compilers and interpreters, codes and networks. A term project is directed in one of these areas. Intended for Computer Science majors. Fall evening and spring day only. Laboratory fee applies.

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

**Credit Hours:** 3

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

### **CMP 251 - Data Structures**

**Prerequisites:** A grade of C or better in CMP 211. Students must have satisfied all MAT, ENG and RDG remediation prior to starting the course.

**Description:** Concepts, implementations, and applications of advanced data types and structures. Data structures presented include priority queues, hash tables, and search trees. Concepts covered include recursion, algorithm

efficiency, best and worst time analysis, and advanced tree structures and graphs. Fall evening and spring day only. Laboratory fee applies.

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

**Credit Hours:** 3

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

### **CMP 252 - Database Management and Development**

**Prerequisites:** At least a C in ITE 154, or permission of Department. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting the course.

**Description:** This course is an introduction to database processing for business. Emphasis is placed on the planning, administration, control and design of database systems. Students learn to develop applications using a popular DBMS software package. (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 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 000 - Academic Listening and Speaking for Beginner ESL Students**

**Prerequisites:** Placement into class.

**Description:** COM 000 is for English language learners at a beginner level whose goal is to be successful in credit-bearing courses at NCC. This course will strengthen conversation skills and introduce speaking and listening in the academic setting. Students will expand their vocabulary to improve oral comprehension and production. Emphasis will be placed on guided pronunciation and grammar practice in oral expression. The students will be assessed through numerous measures, including written and spoken responses to beginner academic audio and video material, conversations, and roleplays. Mastery of these skills will prepare the student for entrance into COM 010 or higher. Laboratory component required. (3 class hours)

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Communications

### COM 010 - Academic Listening and Speaking for Low Intermediate ESL Students

**Prerequisites:** Successful completion of COM 000 or placement into the class.

**Description:** COM 010 is for English language learners at a low intermediate level whose goal is to be successful in credit-bearing courses at NCC. This course will build academic listening and speaking skills. Students will expand their vocabulary and improve oral comprehension and production for effective participation in college classes. Emphasis will be placed on pre-listening strategies, notetaking, and guided listening comprehension practice. Additional emphasis will be placed on improving pronunciation, grammar, the ability to express opinions, and other speaking skills. The students will be assessed through numerous measures, including written and spoken responses to low intermediate academic audio and video material, discussions, short group presentations, and simple debates. Mastery of these skills will prepare the student for entrance into COM 020 or higher. Laboratory component required.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Communications

### COM 020 - Academic Listening and Speaking for Intermediate ESL Students

**Prerequisites:** Successful completion of COM 010 or placement into the class.

**Description:** COM 020 is for English language learners at an intermediate level whose goal is to be successful in credit-bearing courses at NCC. This course will strengthen academic listening and speaking skills and introduce presentational speaking. Students will develop college-level communicative competence through guided practice in pre-listening strategies, notetaking, and guided listening comprehension practice. Emphasis will be placed on improving pronunciation, grammar, pacing, projection, vocal variation, and other delivery skills. Students will be assessed through numerous measures, including written and spoken responses to intermediate academic audio and video material, short speeches, presentations, and debates. Proficiency in these skills will prepare the students for entrance into ESL-designated COM 103/201 courses or placement out of the Communications requirement altogether. Laboratory component required.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Communications

### 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:** 3

**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 GE-SCOO, SCOW, SHUM; SUNY GEN ED-GBCM, GHUM, 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 GE-SCOO, SCOW, SHUM; SUNY GEN ED-GBCM, GHUM 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 GE-SART, SDES, SHUM; 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 GE-SART, SHUM; 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 GE-SCOO, SCOW; 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 GE-SHUM; 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 remediation requirements and RDG 001 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 GE-SART, SDES, SHUM; 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 GE-SART, SDES, SHUM; 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:** Experiences in interacting with an audience, using prose and poetry as vehicles for oral interpretation. Different types of literature are used to develop skills in analysis and performance based on understanding principles of interaction in oral interpretation. Final goal consists of original programs, created and performed by students in class.

SUNY GE-SART; SUNY GEN ED-GART; NCC GEN ED-HUM

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Communications

### COM 121 - Small Group Communication

**Prerequisites:** Students must have satisfied English 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 GE-SHUM; 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.

SUNY GE-SCOO, SCOW, SHUM; 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 GE-SCOO, SCOW, SHUM; 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 GE-SHUM; 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 GE-SHUM; 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 GE-SHUM; 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 ENG remediation requirements and RDG 001 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 non-linear post-production software.

SUNY GE-SART, SHUM; 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

**Description:** Students who have taken COM 102 will not receive credit for COM 202. Students must have satisfied all ENG remediation requirements and RDG 001 prior to starting the course.

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 GE-SOO, SCOW, SHUM; 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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM  
*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Communications*

### COM 210 - Global Media

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

**Description:** The study of international, national, transnational, and global media. The course will deal with the media systems in other countries, the exportation of American media products, and how other cultures use the media to tell stories.

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

*Offered: Spring, Summer*

*Credit Hours: 3*

*Department: Communications*

### COM 220 - Communication and Language

**Prerequisites:** Students must have satisfied all ENG remediation requirements and RDG 001 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 GE-SDES, SHUM; 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 GE-SHUM; 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 developmental 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 GE-SDES, SHUM; 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 remediation requirements and RDG 001 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**

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

**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**

**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**

**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**

**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 GE-SSBS; 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**

**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**

**Description:** This course focuses on two important components of the correctional system which are frequently used as alternatives to incarceration of offenders. Students are introduced to the historical development of these systems, as well as to their legal aspects and the theories governing probation and parole. This course gives particular emphasis to the impact of these systems in the Criminal Justice System.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Criminal Justice*

#### **CRJ 112 - Probation and Parole II**

**Prerequisites:** 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.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Criminal Justice*

#### **CRJ 113 - Community Based Corrections**

**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.

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

*Offered: Spring*

*Credit Hours: 3*

*Department: Criminal Justice*

#### **CRJ 201 - Criminal Investigation**

**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).

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 203 - Police and the Community**

**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.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 206 - Dispute Resolution (Mediation)**

**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.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 207 - Criminal Justice Internship**

**Description:** Permission of Department required.

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.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 212 - Research in Crime and Security**

**Prerequisites:** 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.

SUNY GE-SCOO, SCOW; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 215 - Introduction to Juvenile Delinquency and Justice**

**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.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 216 - Investigation Interviewing and Counseling**

**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.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 217 - Contemporary Issues in Corrections**

**Prerequisites:** 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**

**Description:** Permission of instructor.

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:** 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**

**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**

**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 225 - Criminal Law**

**Description:** Introduction to the origin and function 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**

**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 GE-SDES; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 227 - Constitutional Law**

**Description:** Introduces the student to the institutional aspects of the U.S. Constitutional system. Historically, the relationship between the Federal Constitution (the Bill of Rights and 14th Amendment) and the states is traced through a study of the decisions of the United States Supreme Court.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 228 - Law of Evidence**

**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 and law.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Criminal Justice*

### **CRJ 230 - Introduction to White Collar Crime**

**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 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*

## **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.

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

*Offered: Fall*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### **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.

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

*Offered: Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

## **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) SUNY GEN ED-n/a; NCC GEN ED-CMPS, FBAE, MBAE

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### CSC 120 - Computer Science I

**Prerequisites:** At least a C in CSC 104 or at least a C in MAT 111 or permission of 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 receive credit for CSC 120. (4 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-CMPS

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### 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 receive credit for CSC 130. (4 lecture, 2 laboratory hours) Laboratory fee applies.

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

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### 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 receive credit for CSC 217. 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*

### 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 receive credit for CSC 230. 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*

### 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: 3*

*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 receive credit for CSC 250. (4.5 lecture hours) Laboratory fee applies.

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

*Offered: On Occasion*

*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.

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

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

## Culinary

### CUL

#### 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:** 3

**Department:** Hospitality Business

### **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, Floribbean, 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 155 - International Travel Culinary/ Hospitality**

**Description:** This course provides the opportunity for students to study abroad at various culinary, hospitality and tourism facilities with a purpose of enhancing their skills and cultural understanding. It will include hands on training at distinguished culinary schools, research on visits to cultural sites, farms, food producers, and hospitality facilities. Special expenses for students will include airfare, food and lodging, taxes, etc. for up to two weeks..

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

**Offered:** Summer

**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 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 History**

**Prerequisites:** Satisfactory completion of Remedial Reading.

**Description:** A study of the development of dance as an art form from the Romantic Era at the end of the 19th century to the contemporary scene. Representative choreographers, dance theories, trends and personalities are discussed. The course

includes film shows and subsequent seminar discussion related to the films, as well as practical workshops for exploring movement concepts and styles. Attendance at dance performances is required.

SUNY GE-SART; SUNY GEN ED-GART;

NCC GEN ED-FAPA, HUM

**Offered:** Fall

**Credit Hours:** 3

**Department:** Theatre & Dance

#### **DAN 105 - Choreography 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).

SUNY GE-SART; SUNY GEN ED-GART;

NCC GEN ED-HUM

**Offered:** Spring

**Credit Hours:** 2

**Department:** Theatre & Dance

#### **DAN 106 - Choreography 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).

SUNY GE-SART; SUNY GEN ED-GART;

NCC GEN ED-HUM

**Offered:** Spring

**Credit Hours:** 2

**Department:** Theatre & Dance

#### **DAN 109 - Dance for Musical Theater I**

**Prerequisites:** for Acting A.A. degree majors only or permission of the Department.

**Description:** Training for movement for musical theatre with emphasis in modern jazz and tap (3 hours).

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

**Offered:** Spring

**Credit Hours:** 1

**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 GE-SART; 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 GE-SART; 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 GE-SART, SHUM; 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-PED, HUM

*Offered: Fall, Spring, Summer*

*Credit Hours: 1*

*Department: Theatre & Dance*

### **DAN 127 - Contemporary 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-HUM

*Offered: Spring*

*Credit Hours: 2*

*Department: Theatre & Dance*

### **DAN 128 - Contemporary 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*

### **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-FAPA

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Theatre & Dance*

### **DAN 140 - Ballet and Dance Technique I**

**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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: Fall*

*Credit Hours: 3*

*Department: Theatre & Dance*

### **DAN 141 - Ballet and Dance Technique II**

**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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: Spring*

*Credit Hours: 3*

*Department: Theatre & Dance*

### **DAN 217 - African American Dance Ensemble, Rehearsal and Performance**

**Description:** (Dual listed with AFR 113) This is the first course in the DAN 217 - DAN 218 sequence. Participation in the production, rehearsal and performance of the African-American dance ensemble productions. SUNY GE-SART; SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall*

*Credit Hours: 1*

*Department: Theatre & Dance*

### **DAN 218 - African American Dance Ensemble, Rehearsal and Performance**

**Description:** (Dual listed with AFR 114) This is the second course in the DAN 217 - DAN 218 sequence. Participation in the production, rehearsal and performance of the African American Dance Ensemble Productions.

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

*Offered: Spring*

*Credit Hours: 1*

*Department: Theatre & Dance*

### **DAN 240 - Ballet and Dance Technique III**

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Theatre & Dance*

### **DAN 241 - Ballet and Dance Technique IV**

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

*Offered: Spring*

*Credit Hours: 3*

*Department: Theatre & Dance*

### **DAN 295 - Independent Study-Dance**

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

*Credit Hours: 3*

*Department: Theatre & Dance*

## **Economics**

### **ECO**

#### **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 GE-SSBS; 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 GE-SSBS; 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 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 GE-SSBS; 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 GE-SSBS; 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 GE-SSBS; 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 GE-SSBS; 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 instructor.

**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-n/a; 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 GE-SDES, SSBS; 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 220 - American Banking Practice**

**Prerequisites:** ECO 213 or permission of instructor.

**Description:** (Dual listed with FIN 220) The purpose is to provide the student with an insight into the organization and internal operation of various departments of a bank. Concentration on what a bank does, rather than the exact procedure of how it works, is the core of this course.

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

*Credit Hours: 3*

*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 GE-SDES, SSBS; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-GLNW, PLDI, 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 problems and international capital mobility; and international monetary institutions. SUNY GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-WESH, SBS

*Offered: Spring*

*Credit Hours: 3*

*Department: Economics and Finance*

### **ECO 280 - History of Economic Thought**

**Description:** General examination of ancient and medieval economic institutions with special emphasis on its modern relevance. Specific study of economic thought and practice of mercantilism, physiocrats, classical economics, 19th century socialist dissent, neoclassical and modern schools of economics and its contemporary significance. This study directs students' attention, whatever their field of interest, to man's economic world and the forces that are shaping it.

SUNY GEN ED-n/a; NCC GEN ED-WESH, SBS

*Credit Hours: 3*

*Department: Economics and Finance*

### **ECO 294 - 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: 4*

*Department: Economics and Finance*

### **ECO 295 - Independent Study-Economics**

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

*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 GE-SSBS; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Economics and Finance*

#### **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: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SDES, SSBS; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-n/a; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

### **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 GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

# Electrical Engineering Technology

## ELT

### **ELT 001 - College Preparatory Physics**

**Description:** (Dual listed with CET 001 and PHY 001)

A non-credit one-semester course for students lacking a high school background in physics. The course will cover selected topics in mechanics, hydraulics, heat, sound, light and electricity. Emphasis will be placed on problem solving. The theory will be heavily supplemented by demonstrations. Report writing and the reporting of experimental data will be stressed. (3 lecture, 3 laboratory hours) Laboratory fee applies.

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

*Credit Hours: 0*

*Department: Engineering/Physics/Tech*

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

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

### **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, Thevenin'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: Math/Computer Science/Info Tec*

### **ELT 113 - Electronics I**

**Prerequisites:** ELT 112 and MAT 109

**Description:** Corequisite: ELT 115  
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: Math/Computer Science/Info Tec*

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

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

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

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

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

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

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

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

### ELT 295 - Independent Study-Electrical Engineering Technology

**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:** 3

*Department: Math/Computer Science/Info Tec*

## English

### ENG

#### ENG 000 - ENG 000 Academic Writing for Beginner ESL Students

**Prerequisites:** Placement into course.

**Description:** ENG 000 is for English language learners at a beginner level whose goal is to be successful in credit-bearing courses at NCC. This course prepares beginner students for ENG 010 or higher. It introduces English grammar, vocabulary, sentence structure and basic composition. Students will also read and analyze sentences and be introduced to the concept of paragraphing. By the end of the semester, students are expected to write basic sentences and improve them through editing strategies.

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

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

**Credit Hours:** 0

*Department: English*

#### 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 010 - ENG 010 - Academic Writing for Low Intermediate ESL Students (ESL ENG I)

**Prerequisites:** Successful completion of ESL ENG 000 or placement into the course.

**Description:** ENG 010 is for English language learners at a beginner level whose goal is to be successful in credit-bearing courses at NCC. This course prepares beginner students for ENG 020 or higher. It introduces English grammar, vocabulary, sentence structure, and basic composition. Students should also read and analyze sentences and will be introduced to the concept of paragraphing. By the end of the semester, students are expected to write basic sentences and improve them through editing strategies.

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

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

**Credit Hours:** 0

*Department: English*

#### ENG 020 - ENG 020 - Academic Writing for Intermediate ESL Students (ESL ENG II)

**Prerequisites:** Successful completion of ENG 010 or placement into the course.

**Description:** ENG 020 is for English language learners at an intermediate level whose goal is to be successful in credit-bearing courses at NCC. This course prepares students for ENG 030 or higher. It focuses on the development of English grammar, vocabulary, sentence structure and basic composition. Students should also read and analyze extensive passages. By the end of the semester, students are expected to write well-

developed essays and improve them through editing strategies. Students will be assessed through numerous measures including written responses to intermediate texts. The primary means of passing English 020 with a score of "Satisfactory" is through the successful completion of a timed departmental exit exam (i.e., argumentative essay) in accordance with the ESL English Department rubrics.

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: 0*

*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 GE-SCOO, SCOW, SINP; 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 GE-SCOO, SCOW; 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 GE-SCOO, SCOW, SHUM; 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 student research. SUNY GE-SCOO, SCOW, SHUM; SUNY GEN ED-GHUM, GBCM; NCC GEN ED-COMP, HUM

*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 GE-SCOO, SCOW; 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 GE-SCOO, SCOW, SHUM; SUNY GEN ED-GBCM, SUNY GEN ED-GHUM, NCC GEN ED-COMP, HUM

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: English*

### **ENG 111 - Technical Writing**

**Prerequisites:** Completion of the composition requirement in the student's major.

**Description:** This course examines the principles of technical writing and enables students to learn writing skills required in the technical job market. Style, strategy, and format in published samples of workplace writing are analyzed. Student writings include reports, proposals, memos, outlines, and abstracts. Regular attention is paid to grammar and techniques of revision.

SUNY GE-SCOO, SCOW; SUNY GEN ED-GBCM; NCC GEN ED-HUM

*Offered: Fall, Spring*

*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.

**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 117 - Fiction Writing**

**Prerequisites:** ENG 102 or ENG 109 and permission of instructor or Department Chair.

**Description:** This course, conducted as a workshop, is for students who are interested in exploring fiction writing and discovering unique voices as storytellers. Students will read and analyze literary models to explore narrative techniques and then produce 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 317. Students who have completed ENG 317 will not receive credit for ENG 117.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: English*

### **ENG 118 - Poetry Writing**

**Prerequisites:** ENG 102 or ENG 109 and permission of instructor or Department Chair.

**Description:** This course, conducted as a workshop, is for students interested in exploring the craft or poetry. Students will read and analyze classic and contemporary poems and then craft their own property, 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. Formerly ENG 318. Students who have completed ENG 318 will not receive credit for ENG 118.

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 200 - Advanced Composition : The Art of Essay Writing**

**Prerequisites:** B+ or better in ENG 101 and 108.

**Corequisites:** ENG 102 and 109.

**Description:** Advanced students learn to write thoughtful, creative essays with an emphasis on acquiring a polished, professional style. Rhetorical techniques are examined in classical as well as innovative, modern prose. Writing projects are developed through group discussion and one-on-one editorial revision. In addition to the three classroom hours, students are required to tutor for at least one hour per week in the College's Writing Center or in a community setting.

SUNY GEN ED-GBCM; NCC GEN ED-HUM

*Credit Hours: 3*

*Department: English*

### **ENG 203 - Early American Literature to 1865**

**Prerequisites:** ENG 102 or ENG 103 or ENG 109.

**Description:** This course studies American literature through 1865. It examines the creation and emergence of American culture by engaging indigenous texts and colonial literatures (some in translation), Revolutionary Era writers, and early National writers, including some texts by formerly enslaved persons. 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 103 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 GE-SHUM; 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 GE-SHUM; 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 GE-SHUM; 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 100 or ENG 101 and ENG 102 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 Renaissance. Writing is an integral component of the course.

SUNY GE-SDES, SHUM; 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:** ENG 100, ENG 101, or ENG 108 and ENG 102 or ENG 109.

**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. Writers such as West, Malcolm X, Ralph Ellison, James Baldwin, Gwendolyn Brooks, Hayden, Alice Walker, Toni Morrison, and Walter Moseley are read. Writing is an integral components 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 GE-SHUM; 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 newswriting 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 GE-SCOO, SCOW; 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 GE-SHUM; SUNY GEN ED-n/a; NCC GEN ED-HUM, LIT

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: English*

### **ENG 217 - Autobiographical Writing**

**Prerequisites:** ENG 102 or ENG 109.

**Description:** Students read representative examples of autobiography which serve as models and inspiration for their own writing. Writing assignments include frequent journal writing and formal essays in which students use skills such as narration, description, and analysis to explore their world and examine their own ideas.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: English*

**ENG 218 - 20th Century Literature of the Non-Western World**

**Prerequisites:** ENG 102 or ENG 109.

**Description:** This course introduces students to the diversity of literatures from the non-Western traditions. It will examine the development of literary styles and traditions as responses to specific cultural and historical conditions. A wide range of novels, short stories, poems, and plays will be studied from the literatures of Africa, Asia, the Caribbean, Latin America, and the Middle East. Writing is an integral component of the course.

SUNY GEN ED-GHUM; NCC GEN ED-GLNW, HUM, LIT

**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-n/a; 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 GE-SDES, SHUM; 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 GE-SHUM; 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 GE-SDES, SHUM; 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 Illiad*, *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 GE-SHUM; 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 GE-SHUM; 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 GE-SDES, SHUM; 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 examines literature by writers of Asian ancestry living in the United States, from the early 1900s to the present. It explores 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, Indian 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 GE-SDES, SHUM; 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 GE-SDES, SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI  
**Offered:** Spring

**Credit Hours:** 3

**Department:** English

### ENG 230 - Modern British & American Drama

**Prerequisites:** ENG 102 or ENG 103 or ENG 109.

**Description:** This survey of 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 Becket, Harold 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 GE-SHUM; 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 GE-SHUM; 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 is a study of children's literature as it responds to children's aesthetic as well as developmental needs. A variety of prose and poetic genres are examined, including fables, fairy tales, fantasy, and others. Writing is an integral component of the course. Formerly ENG 314. Students who have completed ENG 314 will not receive credit for ENG 232. SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** English

### ENG 233 - Studies in Science Fiction

**Prerequisites:** ENG 102 or ENG 103 or ENG 109.

**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, Lessing, LeGuin, Atwood, Delany, and Butler are studied. Writing is an integral component of the course.

SUNY GE-SHUM; 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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH

**Offered:** Spring

**Credit Hours:** 3

**Department:** English

### ENG 243 - LGBTQ 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 GE-SDES, SHUM; 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 GE-SDES, SHUM; 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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT

*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:** (Dual listed with THR 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 ENG 300. Students who have completed ENG 300 will not receive credit for ENG 252.

SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, WESH

*Offered: Spring*

*Credit Hours: 3*

*Department: English*

### **ENG 253 - Shakespeare Comedies & Histories**

**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 *A Midsummer's Night's Dream*, *Twelfth Night*, *The Tempest*, *Richard II*, *Henry IV and Richard III*. Attention will be paid to influences of the Elizabethan Era on Shakespeare drama, 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 253.

SUNY GE-SHUM; 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 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 GE-SHUM; 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.

SUNY GE-SDES, SHUM; 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 GE-SHUM; 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 GE-SHUM; 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, Jonathon 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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT

*Offered: Fall*

*Credit Hours: 3*

*Department: English*

### **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 GE-SHUM; 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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT

**Offered:** Spring

**Credit Hours:** 3

**Department:** English

### ENG 294 - Cooperative Education Internship

**Prerequisites:** One of the following: ENG 111, ENG 200, ENG 215, ENG 216, or ENG 115 and permission of the Department Chair.

**Description:** By matching internships with pertinent class work in English, students will study the connection between the practical experience in the workplace with the theoretical concepts explored in the appropriate classroom setting. Occupational titles for which internships are appropriate may include Fact Finder, Copy Editor, Reporter, Photo Caption Editor, Columnist, Production Manager, and Report Writer. Formerly ENG 490. Students who have completed ENG 490 will not receive credit for ENG 294.

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

**Credit Hours:** 4

**Department:** English

### ENG 295 - 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 295.

**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 GE-SHUM; 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:** Math/Computer Science/Info Tec

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

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

#### 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, Summer

**Credit Hours:** 2

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

#### ENS 106 - Computer Aided Drafting

**Prerequisites:** Prer

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

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

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

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

### **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-part 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: Math/Computer Science/Info Tec*

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

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

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

## **Environmental Sciences**

### **ENV**

#### **ENV 101 - Introduction to 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 101.

SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### **ENV 102 - Introduction to Environmental Resources, Energy & Pollution**

**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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### **ENV 103 - Mapping the Environment using 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: Math/Computer Science/Info Tec*

#### **ENV 104 - Field Exploration of Environmental Issues around Metro NY**

**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 120. Students who have completed SCI 120 will not receive credit for ENV 104. SUNY GEN ED-GLAB; NCC GEN ED-LSCI.  
*Offered: May Special*

**Credit Hours:** 4

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

### 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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-ASC, NSCI.

*Offered: Fall, Winterim, Spring, Summer*

**Credit Hours:** 3

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

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## EOP

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DATA COULD NOT BE LOADED

## Exercise Science

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### EXS

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#### EXS 193 - Introduction to Exercise Science

**Prerequisites:** HED 202. May be taken concurrently.

**Description:** Students will be introduced to a variety of topics within exercise science and their impact on health and fitness. This introductory course will cover cardio vascular and musculoskeletal fitness principles, diseases process, energy systems, and current research in the field. Physiologic adaptation to exercise and the impact of inactivity are discussed in depth. Opportunities for employment and career options will be explored. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 3

**Department:** Health/Physical Ed/Recreation

#### EXS 194 - Fitness Assessment

**Prerequisites:** HED 202 May be taken concurrently.

**Description:** This course prepares students to administer a series of resting and active fitness assessments and screenings. Exercise prescriptions are made based on measurements and evaluation of athletic performance and personal health. The focus is on proper technique and participant safety. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 3

**Department:** Health/Physical Ed/Recreation

## Fashion Buying and Merchandising

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### FBM

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#### 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 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 130 - Fashion and Home Accessories

**Description:** Construction, quality and product features of leather, shoes, gloves, furs, jewelry, dinnerware, glassware, silverware and cosmetics are studied. The care, selection, promotion, and sales of these non-textiles are evaluated according to government regulations.

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

*Offered: Summer*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **FBM 140 - Introduction to Interior Design**

**Description:** A survey course exploring the various periods of furniture design with emphasis on complete room planning.

Decorative arts studied include color and design, fabrics, window treatments, accessories, arrangements and harmony.

Career opportunities in the home fashion field are emphasized.

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

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **FBM 142 - Fashion Buying and Merchandising Field Training**

**Prerequisites:** Permission of Department Chairperson.

**Description:** Students intern with fashion buying and merchandising firms to enrich the theoretical concepts previously learned in the classroom.

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

*Offered: Summer*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **FBM 150 - 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*

### **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 295 - Independent Study-Fashion/ Buying/Merchandising**

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

*Credit Hours: 3*

*Department: Marketing & Retailing*

## **Finance**

### **FIN**

#### **FIN 110 - Personal Finance**

**Description:** (Dual listed with ECO 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 help students with their personal finances. SUNY GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **FIN 111 - Introduction to Finance**

**Description:** (Dual Listed with ECO 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 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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **FIN 112 - Introduction to Investments**

**Description:** (Dual listed with ECO 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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **FIN 213 - Money and Banking**

**Prerequisites:** ECO 207 or permission of instructor.

**Description:** (Dual listed with ECO 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-n/a; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **FIN 214 - Corporation Finance**

**Prerequisites:** ECO 207 or permission of instructor.

**Description:** (Dual listed with ECO 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*

#### **FIN 220 - American Banking Practice**

**Prerequisites:** ECO 213 or permission of instructor.

**Description:** (Dual listed with ECO 220)

The purpose is to provide the student with an insight into the organization and internal operation of various departments of a bank. Concentration on what a bank does, rather than the exact procedure of how it works, is the core of this course.

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

**Credit Hours:** 3

**Department:** Economics and Finance

### **FIN 230 - Introduction to International Economics and Finance**

**Prerequisites:** ECO 207 or permission of instructor.

**Description:** (Dual listed with ECO 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 payments problems and international capital mobility, and international monetary institutions. SUNY GE-SSBS; SUNY GEN ED-n/a; NCC GEN ED-SBS

**Offered:** Spring

**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**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

#### **FRE 102 - Beginning French II**

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

#### **FRE 201 - Intermediate French I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall

**Credit Hours:** 3

**Department:** Foreign Languages

#### **FRE 202 - Intermediate French II**

**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 GE-SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Spring

**Credit Hours:** 3

**Department:** Foreign Languages

#### **FRE 225 - French for Business**

**Prerequisites:** 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**

**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**

**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**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM. Formerly FRE 699. Students who 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**

**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, Summer

**Credit Hours:** 3

**Department:** Criminal Justice

#### **FRS 102 - Fire Safety and Tactics**

**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

**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:** 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

**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

**Corequisites:** FSD 120

**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 GE-SART; SUNY GEN ED-n/a; NCC GEN ED-n/a

**Offered:** Fall, Spring

**Credit Hours:** 4

**Department:** Marketing & Retailing

#### FSD 102 - Draping and Design II

**Prerequisites:** FSD 101 (previously APD 101).

**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:** 4

**Department:** Marketing & Retailing

#### FSD 103 - Draping and Design III

**Prerequisites:** FSD 102 (previously APD 102).

**Description:** Continuation of more advanced draping projects includes 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 104 - Draping and Design IV

**Prerequisites:** FSD 103 (previously APD 103).

**Description:** An original collection of garments, in an area of specialization, is designed, draped and/or drafted and constructed in fabric. Material cost and laboratory fees apply.

SUNY GE-SART; 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 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 111 - Flat Pattern Design II

**Prerequisites:** FSD 110 (previously APD 110).

**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:** 2

**Department:** Marketing & Retailing

#### FSD 120 - Garment Construction

**Description:** Students learn the fundamentals of design room sewing techniques utilizing step samples to execute seam 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 GE-SART; 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:** FSD 103

**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

**Credit Hours:** 3

**Department:** Marketing & Retailing

**FSD 135 - Fashion Art I**

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Marketing & Retailing

**FSD 136 - Fashion Art II**

**Prerequisites:** FSD 135

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Marketing & Retailing

**FSD 142 - Field Training**

**Prerequisites:** FSD 104.

**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 III**

**Prerequisites:** ART/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 GE-SART; SUNY GEN ED-GART;  
NCC GEN ED-HUM

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Marketing & Retailing

**FSD 236 - Fashion Art IV**

**Prerequisites:** 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 GE-SART; SUNY GEN ED-GART;  
NCC GEN ED-HUM

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Marketing & Retailing

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**GAM**

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**GAM 101 - Game Design I**

**Description:** Students will develop plans for one or more comprehensive game designs for computer games. The development of story and game design concept will be emphasized. An overview of production technologies and asset pipelines will be discussed. This course includes critique, formal reviews and

group presentations. The course covers an introduction to the roles of members of a team game design, game development and project management. Average 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

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# Geography

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**GEO**

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**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 GE-SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; NCC GEN ED-SBS, GLNW

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

**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 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:** His/PolSci/Geo/LatinAm Studies



**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 GE-SDES, SSBS, SUSC; SUNY GEN ED-n/a; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

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## German

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### GER

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**GER 101 - Beginning German I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

**GER 102 - Beginning German II**

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening, comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Foreign Languages

**GER 201 - Intermediate German I**

**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 GE-SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall

**Credit Hours:** 3

**Department:** Foreign Languages

**GER 202 - Intermediate German II**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Spring

**Credit Hours:** 3

**Department:** Foreign Languages

**GER 261 - Advanced German 1**

**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 GE-SHUM; SUNY GEN ED-n/a; NCC GEN ED-HUM, WESH

**Offered:** Fall

**Credit Hours:** 3

**Department:** Foreign Languages

**GER 262 - Advanced German 2**

**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**

**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

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## Geology

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### GLY

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**GLY 101 - Introduction to 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

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

**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 104 will not receive credit for GLY 102.

SUNY GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

**Offered:** Fall, Spring

**Credit Hours:** 4

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

**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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI.

**Offered:** *May Special*

**Credit Hours:** 4

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

### **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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-ASC, NSCI

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

**Credit Hours:** 3

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

### **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 GE-SSCI; SUNY GEN ED-GLAB;

NCC GEN ED-NSCI.

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

**Credit Hours:** 3

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

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

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

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

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

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

### **GSD 206 - HVAC \ Air Quality**

**Prerequisites:** GSS 128

**Description:** This course will introduce students to the various factors in building design and construction that affect the indoor air quality including the comparison of various passive and mechanical ventilation systems. Compliance with ASHRAE standard 189.1, Standard for the Design of High Performance Green Buildings, MERV ratings, use of low and zero volatile organic compounds and construction air quality control plans will be discussed.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **GSD 295 - Independent Study-Green Sustainable Design**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a.

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

## General Science Studies

### **GSS**

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

#### **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

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### **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 GE-SSCI; SUNY GEN ED-GLAB;

NCC GEN ED-LSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### **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 GE-SSCI; SUNY GEN ED-GLAB;

NCC GEN ED-LSCI

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### **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 GE-SSCI; SUNY GEN ED-GLAB;

NCC GEN ED-LSCI

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

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

#### **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 include applications in the area of electronics (entertainment, business, communication, home electronics). Aspects of sound, light, heat, and mechanics are included with applications in today's electronic world. Laboratory work will consist of hands-on experience with actual measuring devices. (3 lecture, 3 laboratory hours) Laboratory fee applies.

SUNY GE-SSCI; SUNY GEN ED-GLAB;

NCC GEN ED-LSCI

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### **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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-NSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-NSCI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-NSCI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

# 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**

**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**

**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**

**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*

*Department: Administrative Business Tech*

# Hebrew

## HEB

### **HEB 101 - Beginning Hebrew I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

### **HEB 102 - Beginning Hebrew II**

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN-HUM, GLNW

*Offered: Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

### **HEB 201 - Intermediate Hebrew I**

**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**

**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**

**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*

# Health, Physical Education and Recreation

## **HED**

### **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 201 - Personal and Family Health**

**Description:** Students receiving credit for PED 201 will not receive credit for HED 201.

The focus of this course is on the essential behavior necessary for a healthy lifestyle.

Included is the opportunity to evaluate and improve physical as well as emotional well being in light of the most current information available in each topic. The student is presented with strategies that have proven successful in moderating individual behavior. Topics that deal with improving the physical health level include physical fitness, weight control and nutrition, while topics that explore the development of positive mental and emotional health and stress management, intimate personal relationships and human sexuality.

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

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 2*

*Department: Health/Physical Ed/Recreation*

### **HED 202 - Health Through Exercise, Nutrition and Weight**

**Description:** Students are introduced to the concepts and principles of energy balance, body composition, weight control, and physical fitness as they relate to personal health. The exploration of genetic and lifestyle related risk factors for disease will enable students to develop a comprehensive nutrition and exercise program.

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

*Offered: Fall, Spring, Summer, Winterim*

*Credit Hours: 3*

*Department: Health/Physical Ed/Recreation*

### **HED 203 - Infant Health and Care**

**Description:** The course introduces cognitive, physical and socio-emotional development of children birth through 36 months. Students will learn appropriate, inclusive, and respectful care practices, including Sudden Infant Death Syndrome (SIDS), Shaken Baby Syndrome, Immunizations and pediatric doctor visits, Nutrition, Infant CPR, Accident Prevention, Childhood diseases, Cognitive and physical development, Community resources and early intervention programs for diagnosed/noticed developmental delays.

*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 fads, 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 211 - Women's Health**

**Description:** The course explores cross-cultural approaches to women's health and reproductive issues. In particular, it will explore gendered, ethnic, culture, and class dimensions that underlie the patterning of disease and illness with attention to the long-term health effects of racism, poverty, and sexism. Topics will include: world views and usage of birth control, gender and racial discrepancies in health care, diseases of the female body and reproductive system, mortality and morbidity, abortion, menstruation and menopause, cardiovascular, physical and mental health, globalization of contraception, STI's, pregnancy, midwifery, breastfeeding and reproductive rights.

SUNY GE-SDES

*Offered: Fall, Spring, Summer*

*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 GE-SDES, SSBS; 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 GE-SDES, SSBS; SUNY GEN ED-GSBS; 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-psycho-addictive syndrome on diverse populations that reflect issues of race, ethnicity, gender and sexual orientation.

SUNY GE-SDES; 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**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

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

**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, contemporary world conflicts, and prospects for the future.

SUNY GE-SDES, SSBS, SWHI; SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 103 - History of the United States through the Civil War**

**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 climaxes with the bitter struggle of the Civil War.

SUNY GE-SDES, SSBS, S USC; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 104 - History of the United States since the Civil War**

**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 GE-SDES, SSBS, S USC; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 105 - The World, 1945-Present**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; NCC GEN ED-GLNW, SBS, HISSD

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 106 - U.S.A., 1945-Present**

**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 GE-SDES, SSBS, S USC; SUNY GEN ED-GAMH, GSBS; NCC GEN ED-SBS, WESH

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 107 - A Pictorial Approach to European History Since 1500**

**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 GE-SSBS, SWHI; SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 108 - Honors History: Western Roots through the 18th Century**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 109 - Honors History: Western Roots since the 18th Century**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GWEH, GSBS; NCC GEN ED-SBS, WESH

*Credit Hours: 3*  
*Department: His/PolSci/Geo/LatinAm Studies*

### **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 GE-SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 124 - Women in the Western World**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH, PLDI

*Credit Hours: 3*

*Department: His/PolSci/Geo/LatinAm Studies*

### **HIS 125 - The Role of Women in American History**

**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 GE-SDES, SSBS, SUCS; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 130 - Race and Ethnicity in America**

**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 GE-SDES, SSBS, SUCS; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, PLDI

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 136 - History of Latinos in the U.S.**

**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 GE-SDES, SSBS, SUCS; SUNY GEN ED-n/a; NCC GEN ED-SBS, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 137 - Native Americans**

**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 GE-SDES, SSBS, SUCS; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 140 - Nassau County: History and Government**

**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 GE-SDES, SSBS, SUCS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 150 - History of the American Labor Movement**

**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 GE-SDES, SSBS, SUCS; SUNY GEN ED-GAMH, GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 161 - World History: Antiquity to 1500**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-GLNW, SBS, PLDI

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 162 - World History: 1500 to the Present**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; NCC GEN ED-GLNW, SBS, PLDI

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 165 - Religion in World History**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI, SBS

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 176 - African-American History I**

**Prerequisites:** Completion of RDG 001

**Description:** (Dual Listed with AFR 140)

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 GE-SDES, SSBS, SUCS; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **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 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 GE-SDES, SSBS, SUCS; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies



**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 GE-SDES, SUSC; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI

**Offered:** Fall, Spring, Summer**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**HIS 179 - History of the Black Woman in America II****Prerequisites:** HIS 178 or AFR 200 or permission of instructor, completion of RDG 001 and/or RDG 002.**Description:** (Dual listed with AFR 201)

An historical continuation of the History of the Black Woman, from 1900 to the Post World War II Era, the decade of the 1990's & the contemporary scene. Emphasis centers on her problems, roles, experiences in America, her changing role in the workplace, church, professions, society and the current Black Feminist.

SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS, WESH, PLDI

**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH

**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**HIS 190 - The History of Sports in America**

**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 GE-SDES, SSBS, SUSC; SUNY GEN ED-n/a; NCC GEN ED-SBS

**Offered:** Summer**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW

**Offered:** Summer**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH

**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**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 GE-SSBS, SWHI; SUNY GEN ED-n/a; NCC GEN ED-SBS, WESH

**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**HIS 209 - Twentieth-Century Europe**

**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 GE-SSBS, SWHI; SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, WESH

**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**HIS 210 - The Modern Middle East**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, PLDI

**Credit Hours:** 3**Department:** His/PolSci/Geo/LatinAm Studies**HIS 212 - History of the Islamic World**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 219 - The History of Latin America: The Ancient World to Independence**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED- GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 220 - The History of Latin America: Independence to the Present**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 221 - The Afro-Caribbean World**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 222 - Modern Mexico and Central America**

**Description:** This course examines the history of Mexico and Central America from independence in the 1820s to the present. Attention will be paid to political events, such as the Wars of Independence, the Mexican Revolution and the Sandinista and FMLN movements, and to such long-term processes as the relationships among agrarian development, social movements and state-building.

SUNY GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW, WESH, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 228 - Modern China**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED- GSBS, GOWC; NCC GEN ED-SBS, GLNW, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 230 - Modern Imperialism**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, PLDI, WESH, GLNW

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 232 - The History of the Cold War**

**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 GE-SDES, SSBS, SWHI;

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

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; NCC GEN ED-SBS, WESH

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 235 - Russia Since Peter The Great**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; NCC GEN ED- n/a

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 236 - History of Israel**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 240 - Revolutions in the Modern World**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, WESH

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 250 - Era of the American Revolution**

**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 GE-SDES, SSBS, S USC; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 255 - The Civil War and Reconstruction**

**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 GE-SDES, SSBS, S USC; SUNY GEN ED-GSBS, GAMH; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 260 - Twentieth Century Genocide**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; NCC GEN ED-SBS, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 270 - Racism in the Modern World**

**Description:** 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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GWEH; NCC GEN ED-SBS, PLDI

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **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:** His/PolSci/Geo/LatinAm Studies

### **HIS 290 - Religion in American History**

**Description:** Religion has played an important role in the political, social, cultural, and intellectual history of America from the colonial era to the present. This course examines the diverse religions that have influenced and that have been influenced by the American past. Some of the belief systems considered are Protestant denominations, Roman Catholicism, Judaism, Islam, Buddhism, Hinduism, Mormonism, and African-American and Native-American religions.

SUNY GE-SDES, SSBS, S USC; SUNY GEN ED-n/a; NCC GEN ED-PLDI, SBS, WESH

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **HIS 295 - Independent Study-History**

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

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

## Health Information Technology

### HIT

#### **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 OFT 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

**Department:** Administrative Business Tech

#### **HIT 154 - Computer Software Applications in Healthcare**

**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**

**Description:** Concurrent Requisite: (AHS 131 or AHS 225 or BIO 101) and HIT 151 (with a grade of C or better in both courses) or permission of the Chairperson. Cannot be in the same semester with HIT 170 and/or HIT 171.

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 157 - Medical Coding ICD-9**

**Prerequisites:** HIT 151 (with a grade of C or better) or permission of the Chairperson.

**Description:** This course will familiarize students with all practices and conventions of ICD Coding. Students will learn to assign numeric codes for medical diagnoses and procedures carried out in medical offices, hospitals, ambulatory surgery centers and other types of health care facilities. Emphasis will be placed on accurate code selection following approved guidelines and coding conventions. Students will use popular coding software. Laboratory fee applies. (Students receiving credit for OFT 157 will not receive credit for HIT 157.)

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 (with a grade of C or better) or permission of the Chairperson.

**Description:** Concurrent Requisite: HIT 170 (with a grade of C or better) 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 159 - ICD-10 Medical Coding**

**Prerequisites:** HIT 151 and AHS131 or AHS225 or BIO101 (with a grade of C or better)

**Description:** Cannot be taken concurrently with HIT156.

This course will familiarize students with all practices and conventions of ICD-10-CM/PCS coding classification. Students will learn to assign alphanumeric codes for medical diagnoses and procedures carried out in medical offices, hospitals, ambulatory surgery centers, and other types of healthcare facilities. Emphasis will be placed on accurate code selection following approved guidelines and coding conventions. Students will learn to use the En-coder Pro software program.

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:** 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.

**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**

**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: AHS131 or AHS225 or BIO101 and HIT151 with a grade of C or better in both courses. Cannot be taken concurrently with HIT156.

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: AHS132 or BIO101 and HIT151 with a grade of C or better in both courses or permission of the Chairperson.

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 the 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 256 - Advanced CPT Coding**

**Prerequisites:** BIO101 or AHS132, BIO131, HIT 151, HIT 156, HIT 158 (with a grade of C or better in each course) or permission of the Chairperson.

**Description:** This course focuses on the advanced practice of the application of CPT coding. Students review and code advanced clinical and medical scenarios related to various body systems. Software coding packages and the use of CPT and HCPCS manuals to code for physician procedures and services are reviewed. Emphasis is placed on surgical coding. The students are introduced to procedure based payment systems including RBRVS, E&M codes and APC assignments. Laboratory fee applies.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Administrative Business Tech

**HIT 257 - Advanced ICD Coding**

**Prerequisites:** HIT 151, HIT 156, HIT 157 (with a grade of C or better in each course) or permission of the Chairperson.

**Description:** This course focuses on the advanced practice of the application of ICD-9 coding. Students review and code advanced clinical and medical scenarios related to various body systems. Coding standards guidelines and regulatory requirements for each system are discussed. The students are introduced to diagnostic based prospective payment groupers including MS-DRG, APR-DRG and RUGS, as well as diagnostic coding systems including ICD-10 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). 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 101, HIT 154, HIT 158 and HIT 171 (with a grade of C or better in each course) or permission of the Chairperson.

**Description:** Concurrent Requisite: HIT 272 (with a grade of C or better in each course) or permission of the Chairperson. Cannot be taken in same semester with HIT 278.

This course is a supervised work experience that provides students with exposure to coding practices in a hospital, physician's office, clinic or other healthcare 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. Students must be available to complete a 90-hour internship during normal business hours Monday through Friday 8 am to 5 pm.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Administrative Business Tech

**HIT 259 - Advanced ICD-10 Coding**

**Prerequisites:** BIO 101 or AHS132, BIO131, HIT 156, HIT 159 (with a grade of C or better in each course) or permission of the Chairperson.

**Description:** Pre or Concurrent Requisites: AHS 132, BIO 131 or permission of the Chairperson.

This course focuses on the advanced practices and conventions of ICD-10-CM/PCS coding. Students review and code 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 based prospective payment groupers including DRG, APR-DRG and RUGS, as well as diagnostic coding systems including ICD-0 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).

**Credit Hours:** 3

**Department:** Administrative Business Tech

**HIT 260 - Quality Management and Organizational Resources in HIM**

**Prerequisites:** HIT 101 and HIT 154 (with a grade of C or better in each course) 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 prepare 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 265 - Health Data Statistics

**Prerequisites:** HIT 151, HIT 154, HIT 250, 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 covers the application of basic hospital and vital statistics related to health information management. Correlations are made to explain how statistical information in the medical record is utilized within the health care facility and by outside governmental and private agencies. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Please contact Department for course offering

**Credit Hours:** 3

**Department:** Administrative Business Tech

### HIT 270 - HIM Regulatory Issues in the Law

**Prerequisites:** HIT 101 (with a grade of C or better) 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: (AHS 132 or BIO 101) and HIT 151, HIT 156, HIT 170, HIT 171 (with a grade of C or better in all courses) or permission of the Chairperson.

Concurrent Requisite: HIT 175 (with a grade of C or better) or permission of the Chairperson. 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/grouper computer 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 101 and HIT 154 (with a grade of C or better in each course) or permission of the Chairperson.

**Description:** Concurrent Requisite: HIT 260 and HIT 270 (with a grade of C or better) or permission of the Chairperson. Cannot be taken in the same semester with HIT 258. 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 healthcare 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. Student must be available to complete a 90-hour internship during normal business hours Monday through Friday 8

am to 5 pm. (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

## 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:** Economics and Finance

#### 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:** Economics and Finance

#### HMS 117 - Introduction to Social Work

**Description:** This course focuses on roles helpers play and locations for social work practice. Topics include professional values, the knowledge base of the profession and introduction to case management. 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. Students begin to formulate a professional identity. SUNY GE-SDES, SSBS; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

### **HMS 200 - Human 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 a review of case management, working with families and groups, cultural competency, research skills and bio-psychosocial assessments.

\*This course includes an applied learning component. 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: Economics and Finance*

### **HMS 205 - Human Services Internship**

**Prerequisites:** HMS 117 and permission of instructor.

**Description:** The course includes seventy-five field hours spread out across the semester, 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 cultural competency and professionalism. SUNY GE-SDES, SSBS; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

## 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-GLNW, PLDI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: English*

#### **HRS 105 - Introduction to Peace Studies**

**Description:** This interdisciplinary course examines theories of war and non-violence; literature of domestic and foreign peace movements; the gender-military/war/peace connection; and global, national, and local organizations committed to non-violent conflict resolution. With both domestic and global components, the course would satisfy credit requirements in both Global/Non-Western and Pluralism and Diversity categories. Writing is an integral component of the course, as is the use of other media, including art, music, and film. SUNY GEN ED-N/A; NCC GEN ED-GLNW, PLDI

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: English*

#### **HRS 294 - Human Rights Studies Internship**

**Prerequisites:** HRS 101 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: English*

## 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**

**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 161 - Hospitality Management**

**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 162 - Hospitality Human Resources**

**Description:** Advanced management techniques and problems confronting the hotel-motel industry. Emphasis on personnel and labor relations. Dimensions of personnel management and responsibilities, operational problems of seasonal arrangements and various aspects of employee development and career potential are covered. Current and future industry-wide trends and problems are also investigated.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Hospitality Business*

#### **HTL 165 - Facilities Planning and Design**

**Description:** The course of study concentrates on the hotel/restaurant complex, taking into consideration all phases of the enterprise, including coverage of topics in equipment selection, mechanical operations, traffic flow, hotel operations, and other ancillary functions

to prepare the innkeeper and his/her staff for effective decision making.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Hospitality Business*

### **HTL 171 - Food and Beverage Operations**

**Description:** Prerequisite or Corequisite: HTL 174

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 172 - Food Services Cost Analysis**

**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*

### **HTL 174 - Fundamentals of Food Production**

**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, Summer*

*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 Techniques**

**Prerequisites:** HTL 174

**Description:** Commercial food preparation emphasizing quantity food production, the elements of baking, and the institutional approach to volume feeding. Chef Instructor also demonstrates more advanced techniques of food preparation. Students are required to produce foods and clean and sanitize the kitchen laboratory. Lifting required. Uniform required. Laboratory fee applies.

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 opportunity for hands-on experience in the catering, banquet, convention and function business. Topics include banquet service, convention sales and packaging, catering menus, recipes, and food preparation. The student meets one class lecture per week and actually produces two catered special functions (approximately 17 hours per function) per semester. The student plans, costs-out, prepares and serves the special function for the advancement of the College community on dates established by the instructor.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Hospitality Business*

### **HTL 180 - Front Office Management**

**Description:** The analysis of the coordination of all departments emphasizing the control function. Topics include front office procedure, cash control, credit and collections, record keeping, equipment management and the integration of business machines in posting and auditing procedures. Computer lab will be utilized.

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

*Offered: Fall, Spring, Summer*

*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 203 - Hospitality Operations Research Seminar**

**Description:** Prerequisite: 15 credits in hotel/restaurant courses completed prior to registration.

This course is an analysis of contemporary developments and problems in the hospitality industry. All facets are explored including luxury to boutique hotels, institutional feeding, fast foods, and specialty restaurants from gourmet to catering. 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 GE-SART; 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 GE-SART; 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 108 - Final Thesis and Portfolio Development**

**Prerequisites:** INT 101, INT 105, INT 106, ART 111 and ENS 101 with a minimum grade of C in all prerequisites or permission of Department.

**Description:** This course develops and refines skills necessary to execute effective design presentations for submission to clients. It teaches concepts and techniques for compiling portfolios suitable to obtaining work in the profession. The student will submit an Exit Portfolio and present a final thesis with emphasis on universal design. Student must have a minimum of ten completed Interior Design Projects for Portfolio Development. Average Materials Cost: \$150.

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

**Credit Hours:** 3**Department:** Marketing & Retailing**INT 115 - Kitchen and Bath Design I****Prerequisites:** INT 101, ENS 101

**Description:** This course is intended to educate the professional residential interior kitchen and bath designer with the appropriate applications for kitchen and bath design in compliance with industry and manufacturers' standards. The student will learn local and state building codes, licensing, and legislative requirements that are necessary to perform all tasks associated with kitchen and bath design and installation standards. Student must be enrolled in Kitchen and Bath Design Certificate Program.

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

**Offered:** Please Contact Department**Credit Hours:** 3**Department:** Marketing & Retailing**INT 118 - Presentation Standards for Kitchen and Bath Design****Prerequisites:** INT 101, INT 103, INT 105, ENS 101, CET 101, CET 107.

**Description:** Student must be enrolled in the Kitchen and Bath Certificate Program. This course teaches students to read architectural drawings used in the design process of a kitchen or bathroom. Students learn to produce working documents according to NKBA (National Kitchen and Bath Association) Graphics and Presentation Standard Manual. Students will become competent in the following: proper use of equipment, architectural lettering, drawing of floor plans, elevations, mechanical, section and detail drawing. NKBA Standards are used in all drawings including perspective and isometrics.

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

**Offered:** Please Contact Department**Credit Hours:** 3**Department:** Marketing & Retailing**INT 142 - Field Training****Prerequisites:** INT 201

**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, studio 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 GE-SART; 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 GE-SART; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **INT 215 - Kitchen and Bath Design II**

**Prerequisites:** INT 101, ENS 101, CET 101, INT 115, MKT 170.

**Description:** This course offers the Kitchen and Bath design professional a guide to be used in the planning of Kitchen and Bath at an advanced level. The focus of this course is to enforce the design elements of kitchen and bathroom design and learn the parameters for both universal and sustainable design as applies to kitchen and bath installations. This course enables the kitchen and bath professional to make the proper choices in planning and installing kitchens and baths. The learner will understand the value and techniques of designing universal and sustainable areas suitable to the needs of a client. Each student will learn to create and maintain a design portfolio of projects showing skill and ability to successfully prepare a design presentation. Student must be enrolled in the Kitchen and Bath Design Certificate Program.

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

*Offered: Please Contact Department*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **INT 220 - Interior Design Studio IV**

**Prerequisites:** INT 210.

**Description:** Through research, design analysis, and problem solving students 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 GE-SART; 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**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a. Formerly INT 699. Students who have

completed INT 699 will not receive credit for INT 295.

*Credit Hours: 3*

*Department: Marketing & Retailing*

## **Italian**

### **ITA**

#### **ITA 101 - Beginning Italian I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Foreign Languages*

#### **ITA 102 - Beginning Italian II**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Foreign Languages*

#### **ITA 201 - Intermediate Italian I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Fall*

*Credit Hours: 3*

*Department: Foreign Languages*

#### **ITA 202 - Intermediate Italian II**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

#### **ITA 225 - Italian for Business**

**Prerequisites:** 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*

#### **ITA 261 - Advanced Italian 1**

**Description:** This is the first course in the ITA 261-ITA 262 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 Italian. Formerly ITA 301. Students who have completed ITA 301 will not receive credit for ITA 261

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Fall*

*Credit Hours: 3*

*Department: Foreign Languages*

#### **ITA 262 - Advanced Italian 2**

**Description:** This is the second course in the ITA 261-ITA 262 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 Italian. Formerly ITA 302. Students who have completed ITA 302 will not receive credit for ITA 262

SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Spring*

*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, Spring

**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 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, Spring

**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, Spring

**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 receive credit for ITE 204. (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 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

**Credit Hours:** 3

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

### ITE 217 - Information Security

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

**Description:** Information security has risen to a prominent place in the ever expanding information technology field. This course will cover major topics associated with a balance of system access and system security. It will provide students with an overview of security challenges and strategies of counter measures in the information systems environment. Topics covered in this course include understanding information security terminology, identifying network security vulnerabilities and understanding how malicious attacks, threats, and vulnerabilities impact an IT infrastructure. Cryptography and its use in the field of information security will enable students to understand system architecture in security operations.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**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 receive 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:** 4

**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 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

**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 foot-printing, 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

**Credit Hours:** 3

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

### ITE 252 - Database Management

**Prerequisites:** A grade of C or better in either CSC 104 or CSC 120.

**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 receive 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 receive credit for ITE 253. 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 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

**Credit Hours:** 6

**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 covers writing GUI business database applications in a modern high-level programming language using the three tiered business model. 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

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW  
**Offered:** Fall, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

#### JPN 102 - Beginning Japanese II

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

#### JPN 103 - Beginning Japanese III: Discover Japan

**Prerequisites:** JPN 101

**Description:** This course is a language immersion course, that covers fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. The highlight of which is a 2-week visit to Japan. The course also includes one week of preparatory classes prior to travel. Travel is designed to enhance opportunities for students to apply their knowledge and language skills among native speakers in a variety of situations in Japan. Students will also have a chance to deepen their cultural understanding as well as historical knowledge of Japan. Laboratory component required.

SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI, HUM

**Offered:** Summer

**Credit Hours:** 3

**Department:** Foreign Languages

## Jewish Studies

### JWS

#### JWS 101 - Introduction to World Jewish Studies

**Description:** This course introduces students to the multicultural diversity of the Jewish community. By reading, viewing, and discussing historical and contemporary material, students learn about Jewish traditions and cultures, including Mizrahi (Eastern, African), Sephardi (Iberian), Ashkenazi (non-Iberian European). Students explore the global spectrum of Jewish experience and identity.

SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI, WESH

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Multidisciplinary Studies

#### JWS 102 - Jews in Biblical and Medieval Cultures

**Description:** This course examines Jewish life and culture, from the Biblical period in the Middle East through the Renaissance in Europe, including Mizrahic and Shephardic populations. We begin with Jewish origins and identities, noting how the earliest Jewish communities developed and changed. We consider specific challenges, such as the destruction of the temples and life in the diaspora, as Jews settled and struggled in foreign lands. With attention to an emerging global Jewish community, the course employs primary and secondary sources from multiple disciplines, including literature, music, and art.

SUNY GEN ED-n/a; NCC GEN ED-GLNW, HUM, PLDI, WESH

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

**Credit Hours:** 3

**Department:** English

#### JWS 104 - Jews in the Modern World

**Description:** This course identifies Jewish responses to modernity from interdisciplinary and multicultural perspectives. We examine the impact of the Enlightenment on traditional communities, including the effects of the new conceptual frameworks such as Chassidism, Reform Judaism, Zionism, and Feminism. Using primary and secondary sources from a variety of disciplines, students learn how Jewish identity has been defined and redefined in evolving cultural contexts.

SUNY GEN ED-n/a; NCC GEN ED-GLNW, HUM, PLDI, WESH

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

**Credit Hours:** 3

**Department:** English

## Korean

### KOR

#### KOR 101 - Beginning Korean 101

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. This course is not intended for students of Korean speaking background. Laboratory component required.

SUNY GE-SHUM, SWOL  
**Offered:** Fall, Winter, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

#### KOR 102 - Beginning Korean 102

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. This course is not intended for students of Korean speaking background. Laboratory component required.

SUNY GE-SHUM, SWOL  
**Offered:** Fall, Winter, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

## Latin American Studies

### 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 GE-SDES, SHUM, SWHI; SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

**LAS 105 - Introduction to Latino/a American Studies in the U.S.**

**Description:** This course is an introduction to the interdisciplinary study of Latinas and Latinos in the U.S. Students will examine the integration of various groups such as Puerto Rican, Mexican-American, Cuban, and Central American into a large society; the diverse contributions made by and issues facing the communities: immigration, assimilation, racism, identity, bilingualism, generational differences, political representation, social and economic status, education, and forms of art; music and entertainment.

SUNY GE-SDES, SHUM, SUSC; SUNY GEN ED-n/a; NCC GEN ED-PLDI

**Offered:** Spring

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

**LAS 222 - Latin American Literature**

**Prerequisites:** ENG 102 or ENG 109.

**Description:** (Dual Listed with ENG 222) This course introduces students to the range of traditions that comprise the literatures of Latin America. It will examine literary productions in specific cultural and historical contexts. Spanish, Portuguese, and Francophone literature, as well as indigenous works from such countries as Brazil, El Salvador, Argentina, Cuba, Puerto Rico, and Mexico will be studied in translation. Writing is an integral component of this course. This course may not be used for foreign language credit.

SUNY GE-SDES, SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, LIT, PLDI

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

# Latin

## LAT

**LAT 101 - Beginning Latin I**

**Description:** The essentials of Latin grammar and vocabulary. Selected readings from prose authors. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall

**Credit Hours:** 3

**Department:** Foreign Languages

**LAT 102 - Beginning Latin II**

**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:** Spring

**Credit Hours:** 3

**Department:** Foreign Languages

# Legal Studies

## LAW

**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, Summer

**Credit Hours:** 3

**Department:** Accounting and Business Admin

**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, Summer

**Credit Hours:** 3

**Department:** Accounting and Business Admin

**LAW 105 - Introduction to Current Law**

**Description:** The course explores the structure and function of our judicial system, focusing on basic areas of civil law including those dealing with employment, housing, marriage, contracts and banking. Legal transactions such as wills, mortgages and leases will be analyzed. The course prepares students for the myriad of real life situations they will encounter. For non-business majors only.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Accounting and Business Admin

**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:** Accounting and Business Admin

**LAW 107 - Hotel Management Law**

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

**Offered:** Intermittently

**Credit Hours:** 3

**Department:** Accounting and Business Admin

**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.

SUNY GE-SDES; SUNY GEN ED-n/a; NCC GEN ED-PLDI

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Accounting and Business Admin

**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, Summer

**Credit Hours:** 3

**Department:** Accounting and Business Admin

**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 GE-SDES; SUNY GEN ED-n/a; NCC GEN ED-PLDI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Accounting and Business Admin*

### **LAW 202 - Partnerships & Corporations**

**Prerequisites:** LAW 205.

**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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **LAW 204 - Real Property**

**Prerequisites:** LAW 205.

**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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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.

SUNY GE-SDES

*Credit Hours: 3*

*Department: Accounting and Business Admin*

### **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 GE-SDES; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Accounting and Business Admin*

### **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.

**Description:** This domestic study course will examine the role, challenges and inner workings of the United States Court System. Students will have an opportunity to view trials and oral arguments in state and federal courts throughout the country and will visit legislative bodies and offices of court administration. Students will develop an understanding of court procedures, protocols and various aspects of civil and criminal law and will be able to compare, contrast and differentiate trial and appellate courts on the state and federal level. Discussions with court personnel, judges and government officials are planned. This course may be offered during the winter and summer sessions only. Formerly LAW 315. Students who have completed LAW 315 will not receive credit for LAW 215. SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Intermittently*

*Credit Hours: 3*

*Department: Accounting and Business Admin*

### **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.

*Offered: Spring (Second Half Session)*

*Attribute NCC GEN ED-WESH*

*Credit Hours: 3*

*Department: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **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: Accounting and Business Admin*

### **LAW 295 - Independent Study-Legal Studies**

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

*Credit Hours: 3*

*Department: Accounting and Business Admin*

## **Library**

### **LIB**

#### **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 GE-SHUM; SUNY GEN ED-n/a; NCC GEN ED-HUM

*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 GE-SHUM; SUNY GEN ED-n/a; NCC GEN ED-HUM

*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*

# Logistics and Transportation Management

## **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 106 - Intermodal Transportation and Logistics in International Trade**

**Prerequisites:** LOG 101 or LOG 102.

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

**Description:** Growing interdependence between domestic and international trade and business relationships; terminology of international trade, role of international corporations; documentation; financial procedures; communications; regulations; political issues.

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*

# Medical Assistant

## **MAP**

**MAP 130 - Administrative Medical Office Procedures**

**Description:** Concurrent Requisite: HIT 151 Medical Terminology with a grade of C or better

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Administrative Business Tech

**MAP 132 - Clinical Documentation Procedures**

**Description:** Prerequisite: AHS 131, HIT 151 with a grade of C or better in each course.

Concurrent Requisite: AHS 132, MAP 134 with a grade of C or better in each course.

This course covers entry-level medical office clinical procedures including patient intake procedures and documentation of care. Patient education regarding wellness and preventative care are reviewed, as well as health literacy. 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 medical record software.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Administrative Business Tech

**MAP 134 - Medical Assistant Laboratory Procedures**

**Description:** Prerequisites/Concurrent Requisite: AHS 132

Prerequisite: HIT 151 with a grade of C or better in each course.

Concurrent Requisite: HIT 175 with a grade of C or better.

This course includes instruction and practice in various clinical areas of private medical office and hospital based medical practices. Instruction includes patient care skills during examination and treatment. Students will learn and demonstrate through role-play procedures for preparing and maintaining the examination and treatment area before, during, and after patient care; sanitization; sterilization and autoclaving; infection control and safety procedures; obtaining patient medical history;

measuring and recording vital signs and anthropometric measurements; preparing the patient and assisting with examination and/or treatment. Student will learn and demonstrate the use of sterile technique. Basic principles for assisting with specialty exams will be taught.

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

**Offered:** Fall, Spring,

**Credit Hours:** 3

**Department:** Administrative Business Tech

**MAP 138 - EKG & Phlebotomy Procedures**

**Description:** This course prepares students to obtain employment as EKG technicians, phlebotomists, or medical assistants. Students are introduced to the basic principles of electrocardiography and will learn cardiac anatomy and physiology and electrophysiology. Students are taught to use and operate electrocardiogram (EKG) equipment and are trained in basic interpretation of the results. Students are instructed in all aspects of blood collection for adults and children and develop comprehensive skills to perform venipunctures for lab analysis. Students learn how to safely and effectively draw blood using both venipuncture and capillary puncture methods along with finger sticks and heel sticks. Non-blood specimen collection and infection control procedures will be reviewed. Classroom lecture and lab sessions provide hands-on practice allowing students to perform EKGs on other students as well as perform venipuncture on practice arms.

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

**Offered:** Fall, Spring,

**Credit Hours:** 4

**Department:** Administrative Business Tech

**MAP 236 - Medical Assistant Administrative Internship**

**Description:** Prerequisite: AHS 131, HIT 151, HIT 156, HIT 170, MAP 130 with a grade of C or better in each course

Concurrent Requisite: HIT 158, MAP 132 with a grade of C or better in each course.

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, hospital, or other healthcare facility. Students will prepare a portfolio and practice interviewing skills. Students must be available to complete the administrative internship during normal business hours Monday through Friday 8 am to 5 pm

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Administrative Business Tech

**MAP 238 - Medical Assistant Clinical Practicum**

**Description:** Prerequisite: AHS 100, AHS 132, HIT 151, MAP 132, MAP 134 (with a grade of C or better in each course)

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, hospital, or other healthcare facility. Students must be available to complete the clinical practicum during normal business hours Monday through Friday 8 am to 5 pm.

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

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Administrative Business Tech

# Mathematics

## MAT

**MAT 001 - College Preparatory Mathematics**

**Prerequisites:** Students placed in math 001 or choosing to meet placement of Math 003 or 013 with the sequence of Math 001 and Math 002 or Math 012.

**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).

SUNY 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.

**Description:** A non-credit course that prepares students to take a credit-level liberal arts mathematics course or MAT 109 - College Algebra and Trigonometry. All students with a MAT 002 or MAT 012 placement are eligible to take this course. Topics include: fundamental processes of arithmetic and algebra, factoring, linear and fractional equations, exponents, radicals, quadratic equations and right triangle trigonometry. Hand-held scientific 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**

**Description:** A non-credit course that prepares students to take a credit-level liberal arts mathematics course or MAT 109 - College Algebra and Trigonometry. All students with MAT 001, MAT 013 or MAT 003 placement are eligible to take this course. 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 scientific calculators will be used (6 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 009 - Support for College Algebra and Trigonometry**

**Prerequisites:** MAT 100 placement or S in MAT 012 or MAT 013. Student must have satisfied ENG 001 and RDG 001 developmental requirements.

**Description:** Co-requisite: MAT 109 This course is intended for students who otherwise would have to take MAT 002 prior to enrolling in MAT 109. These are students who have a MAT 100 placement or who have satisfactorily completed MAT 012 or MAT 013. The course is designed to support students taking MAT 109, College Algebra and Trigonometry, by reviewing material recently covered in the course and strengthening students' skills in preparation for upcoming topics.

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 012 - Quantitative Reasoning 1**

**Description:** Prerequisite: Satisfactory completion of MAT 001 or by college placement; RDG 001 (may be taken concurrently).

A non-credit course that prepares students to take a credit-level general liberal arts course in mathematics. All non-STEM students with a MAT 002 or MAT 012 placement are eligible to take this course. Students who intend to take MAT 109 and/or major in a science, technology, engineering or mathematics related discipline should take MAT 002

instead of this course. This course integrates quantitative literacy with mathematical concepts such as fluency with numbers, proportional reasoning, data interpretation, algebraic reasoning, graphing lines, and modeling. 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 consumer literacy. Students should be prepared to actively participate in class discussions during every class meeting. Hand-held scientific calculators will be used (4.5 lecture hours).

Students who intend to major in science, technology, engineering or mathematics should take MAT002 or MAT 003 instead of this course. Graded on an S-U basis.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 0

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

### **MAT 013 - Integrated Arithmetic and Quantitative Reasoning I**

**Description:** Prerequisite: RGD 001 (may be taken concurrently).

A non-credit course that prepares students to take a credit-level general liberal arts course in mathematics. All non-STEM students with MAT 001, MAT 013 or MAT 003 placement are eligible to take this course. Students who intend to take MAT 109 and/or major in science, technology, engineering or mathematics related discipline should take MAT 003 instead of this course. This course integrates arithmetic and quantitative literacy with mathematical concepts such as fundamental operations of integers and rational numbers, ratio and proportion, percents, proportional reasoning, data interpretation, algebraic reasoning, graphing lines, and modeling. 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 consumer literacy. Students should be prepared to actively participate in class discussions during every class meeting. Hand-held scientific calculators will be used (6 lecture hours.)

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 0

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

### **MAT 100 - A Topical Approach to Mathematics**

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

**Description:** Fundamental Mathematics topics and their applications. Topics include: problem solving, number systems, geometry, consumer mathematics, mathematical modeling, probability, management science, and social choice and decision making. A scientific calculator is required. (4.5 lecture hours) (Students will not receive credit for both MAT 100 and MAT 114).

SUNY GE-SMAT; SUNY GEN ED-GMAT; NCC GEN ED-MATH

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

**Credit Hours:** 4

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

### **MAT 101 - Concepts of Mathematics**

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

**Description:** Topics include: formal symbolic logic, arguments, methods of proof; basic concepts of sets, set operations and probability. Consideration of number systems and computers.

SUNY GE-SMAT; SUNY GEN ED-GMAT; NCC GEN ED-MATH

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

**Credit Hours:** 3

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

### **MAT 102 - Introduction to Statistics**

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

**Description:** \*See calculator note in catalog. Appropriate and inappropriate uses of statistics, measures of central tendency and variability, basic concepts of probability, the binomial, normal and 't' distributions, testing hypotheses, estimation, chi-square, linear regression, and correlation.

SUNY GE-SMAT; SUNY GEN ED-GMAT; NCC GEN ED-MATH

**Offered:** Fall, Winterim, 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.

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 GE-SMAT; SUNY GEN ED-GMAT;  
NCC GEN ED-MATH

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **MAT 109 - College Algebra and Trigonometry**

**Prerequisites:** Students are to be placed into MAT 109 by the following:

**Description:** College Placement Test (For some students whose College Placement Test scores allow for MAT 109, MAT 002 might be recommended prior to taking MAT 109) 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 GE-SMAT; 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 GE-SMAT; SUNY GEN ED-GMAT;  
NCC GEN ED-MATH

*Offered: Fall, 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 GE-SMAT; SUNY GEN ED-GMAT;  
NCC GEN ED-MATH

*Offered: 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-GMAT, NCC GEN ED-MATH

*Offered: Fall, 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 117 - Engineering Technical Math II**

**Prerequisites:** Three years of Regents H.S. mathematics, with at least a 78% on Math B Regents; or at least a 75% average in three years of Regents H.S. mathematics (including trigonometry - i.e. Sequential 3); or at least a C in MAT 109 or MAT 116.

**Description:** \*See calculator note in catalog. Designed for students in Engineering Technology. Rational exponents and radicals; functions and their graphs; polynomial, exponential, logarithmic and trigonometric functions; conic sections; introduction to derivatives and integrals. Applications are considered from various scientific, technical and practical areas. (4.5 lecture hours) Students will not receive credit for both MAT 111 and MAT 117.

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 GE-SMAT; SUNY GEN ED-GMAT;  
NCC GEN ED-MATH

*Offered: Spring, Summer*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **MAT 119 - Data Science/Analytics**

**Prerequisites:** 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.

**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. SUNY GEN ED-GMAT; NCC GEN ED-MATH

*Offered: Fall, 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: College Placement Test or at least a C in MAT 111 or MAT 117.

**Description:** \*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 GE-SMAT; SUNY GEN ED-GMAT;  
NCC GEN ED-MATH

*Offered: Fall, 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 GE-SMAT; SUNY GEN ED-GMAT;  
NCC GEN ED-MATH

*Offered: Fall, 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).

**Description:** \*See calculator note in catalog. Probability as a mathematical system: sample spaces, probability axioms, simple theorems. Permutations, combinations, Bayes theorem. Random variables; discrete and continuous probability and distribution functions: binomial, hypergeometric, Poisson, and normal distributions. Methods of estimation and hypothesis testing.

SUNY GE-SMAT; SUNY GEN ED-n/a;  
SUNY GEN ED-MATH

*Offered: Spring*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **MAT 150 - Data Science/Analytics**

**Prerequisites:** At least a C in MAT 102 or at least a C in MAT 131.

**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: On Occasion*

*Credit Hours: 3*

*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 reasoning.

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

*Offered: Fall*

*Credit Hours: 3*

*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, 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 GE-SMAT; 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, 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 GE-SMAT; 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**

**Description:** 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:** *English*

#### **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:** *English*

#### **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:** *English*

#### **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:** *English*

#### **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:** *English*

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

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

# Meteorology

## MET

### MET 101 - Introduction to Meteorology/Weather

**Description:** To understand the daily and seasonal weather, students will be introduced to the basic weather elements such as temperature, atmospheric pressure, wind, humidity, precipitation and cloudiness. Real-time weather maps and forecast models 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 through video media. Laboratory exercises include the study of weather observations and radar images from the WSR-88D, analysis of surface maps, including the plotting the location of warm and cold fronts, upper-air maps, the analysis of soundings on Skew-T diagrams and weather forecasting. Hybrid-online sections of this course may be offered. For these hybrid-online sections, students will meet the professor on campus to take exams and perform the labs. Students will learn the lecture material using web-based learning activities posted by the professor to the Blackboard learning management system. Students enrolling in a hybrid section must have access to a computer, the internet and a printer in order to complete on-line assignments. (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 GE-SSCI; SUNY GEN ED-GLAB;  
NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

# Marketing

## MKT

### 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*

*Credit 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*

*Credit 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*

*Credit 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*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### 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*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### MKT 107 - E-Sports Event Marketing

**Prerequisites:** MKT 105.

**Description:** In this course students apply their knowledge of E-sports marketing and relevant functional areas of business to plan and execute an E-sports event. Using case studies, students identify and apply best practices for planning and executing an E-sports event with special attention to marketing. Students are required to create and market an E-sports event prior to completion of the course.

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

*Offered: Spring, Fall, Summer*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### MKT 108 - Direct and Interactive Response Marketing

**Description:** An introduction to the specialized field of direct response marketing, with a focus on digital. Topics include marketing plans, use of databases, media strategy, content 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*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### MKT 112 - 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 guerilla 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*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### MKT 130 - Marketing Research

**Prerequisites:** MKT 100.

**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*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 134 - Sales Management**

**Prerequisites:** MKT 103.

**Description:** Students investigate the dynamics of managing the selling function. Case analysis and role playing exercises are utilized to develop better understanding of the importance of planning, organizing, directing, and controlling the sales department.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 136 - Marketing Management**

**Prerequisites:** MKT 100.

**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*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 138 - Public Relations**

**Description:** Essentials of public relations practice as related to business problems. Organization of public relations work, analysis of major sectors of the public and application of latest public relations techniques.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 142 - Field Training**

**Prerequisites:** Permission of Department Course Coordinator.

**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, Summer*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 145 - Consumer Motivation and Buyer Behavior**

**Description:** This course is 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*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 155 - Introduction to International Marketing**

**Description:** This course will introduce the student to the fundamentals of International/Multinational Marketing. The course of study includes: The International Environment, International Marketing Activities, Global Marketing Management. It covers the channels of international distribution and the financial and logistical aspects of International Marketing.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 160 - Customer Service**

**Description:** This survey course will prepare the student for advanced study in the area of customer service. An extensive vocabulary of customer service terms will be developed and students will understand the basics of customer service, credit, collection, authorization services and fraud control.

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

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 170 - Procedures and Salesmanship for Kitchen and Bath Designers**

**Prerequisites:** INT 101, INT 104, INT 105, INT 115, ENS 101.

**Description:** Must be enrolled in the Kitchen and Bath Certificate Program. Completion of this course allows Kitchen and Bath Design students to demonstrate ethical knowledge of business practices including the NKBA Standards of Conduct in conjunction with common business contracts to be inclusive of NKBA business tools and forms. Students will develop an understanding of management policies including profit margin, business plans, human resource practices, marketing and advertising. Students will also learn

the key presenting and selling techniques required of successful designers and business professionals.

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

*Offered: Please Contact Department*

*Credit Hours: 3*

*Department: Marketing & Retailing*

### **MKT 295 - Independent Study-Marketing**

**Description:** Formerly MKT 699. Students who have completed MKT 699 will not receive credit for MKT 295.

*Credit Hours: 3*

*Department: Marketing & Retailing*

## **Mortuary Science**

### **MSC**

#### **MSC 111 - Funeral Orientation**

**Description:** The survey and study of funeral practices from the year 4000 B.C. in Egypt to the present in America.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Mortuary Science*

#### **MSC 112 - Public Health and Sanitation**

**Description:** A survey of Public Health problems, organisms causing infectious diseases, agencies, etc.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Mortuary Science*

#### **MSC 124 - Anatomy for Embalmers I**

**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: Spring*

*Credit Hours: 3*

*Department: Mortuary Science*

#### **MSC 127 - Funeral Home Management**

**Description:** A detailed study of management techniques and procedures used in the operation of a funeral home. This study will include an examination of broad-based goals and objectives required of a successful Funeral Home Manager. This course will then take a specific look at concepts and procedures

designed to maximize the profitability of the funeral home operation. Topics such as employee relations, professional associates and client family relationships will be examined. The procedures related to management of disaster planning and multiple funeral industry cooperative procedures will be investigated as they pertain to recent industry innovations. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Fall

**Credit Hours:** 3

**Department:** Mortuary Science

### **MSC 234 - Mortuary Law and Ethics**

**Description:** A study of mortuary jurisprudence and business law. Application to professional and business aspects of funeral home operation. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Fall

**Credit Hours:** 3

**Department:** Mortuary Science

### **MSC 235 - 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

**Department:** Mortuary Science

### **MSC 236 - Embalming Theory I**

**Prerequisites:** MSC 124.

**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

**Department:** Mortuary Science

### **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:** 1.50

**Department:** Mortuary Science

### **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

**Department:** Mortuary Science

### **MSC 241 - Restorative Art**

**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:** Spring

**Credit Hours:** 3

**Department:** Mortuary Science

### **MSC 242 - Human Disposition: Burial and Cremation**

**Description:** This course will discuss and explain the final disposition of human remains. This course will explore the preparation of remains for earth burial, cremation and shipping. The operation of a cemetery and crematory will be discussed as well as the legal and regulatory compliance of each. The course will emphasize the proper identification of human remains, required forms, and size of cremation containers and caskets. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Fall

**Credit Hours:** 3

**Department:** Mortuary Science

### **MSC 245 - Funeral Directing with Practicum**

**Prerequisites:** MSC 237.

**Description:** A detailed study of management techniques and procedures used in the operation of a funeral home. A supervised practicum assignment at cooperating funeral homes is included. (3 lecture hours, 6 laboratory hours) Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Spring

**Credit Hours:** 3

**Department:** Mortuary Science

### **MSC 247 - Embalming Theory II**

**Prerequisites:** MSC 236.

**Description:** Lectures continuing with the principles, techniques, and practices of the embalming process. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Spring

**Credit Hours:** 2

**Department:** Mortuary Science

### **MSC 248 - Embalming Laboratory II**

**Prerequisites:** MSC 236.

**Corequisites:** MSC 247.

**Description:** Clinical experience continues in practical embalming processes taught at Bellevue Hospital in New York City. (4 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Spring, Summer

**Credit Hours:** 1.50

**Department:** Mortuary Science

### **MSC 249 - Funeral Counseling and Psychology**

**Prerequisites:** PSY 203.

**Description:** An introductory study of behavioral emotions and needs of an individual that has recently experienced a death in the family or of a close friend. Counseling techniques and recommendations are introduced and discussed through the use of study groups and role playing. Practical situations are portrayed and analyzed. Selected current readings are discussed. SUNY GEN ED-n/a; NCC GEN ED-n/a  
**Offered:** Spring

**Credit Hours:** 3

**Department:** Mortuary Science

## **Music**

### **MUS**

#### **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). SUNY GEN ED-n/a; NCC GEN ED-n/a  
**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***MUS 057 - Preparatory Trumpet I****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 058 - Preparatory Trumpet II****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 059 - Preparatory Trombone I****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 060 - Preparatory Trombone II****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 061 - Preparatory Baritone I****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 062 - Preparatory Baritone II****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 063 - Preparatory Tuba I****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 064 - Preparatory Tuba II****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 065 - Preparatory Percussion I****Description:** SUNY GEN ED-n/a; NCC GEN ED-n/a*Offered: Fall, Spring**Credit Hours: 2**Department: Music***MUS 066 - Preparatory Percussion II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 067 - Preparatory Violin I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 068 - Preparatory Violin II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 069 - Preparatory Viola I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 070 - Preparatory Viola II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 071 - Preparatory Violoncello I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 072 - Preparatory Violoncello II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 073 - Preparatory String Bass I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 074 - Preparatory String Bass II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 075 - Preparatory Classical Guitar I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 076 - Preparatory Classical Guitar II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 077 - Preparatory Organ I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 078 - Preparatory Organ II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 079 - Preparatory Harp I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 080 - Preparatory Harp II**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **MUS 081 - Preparatory Electric Bass I**

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

**Offered:** Fall, Spring

**Credit Hours:** 2

**Department:** Music

### **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 GE-SHUM; 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 GE-SART; 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 GE-SART; 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 GE-SART; 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 GE-SART, SHUM; 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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, GLNW, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Music*

### **MUS 108 - Folk Music**

**Description:** This course explores folk music in Western culture, focusing on folk music performance styles; its dissemination and preservation; its role in articulating social, economic, and racial disparities; and its impact on and interaction with popular music. Open to all students.

SUNY GE-SDES, SHUM; 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: 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 GE-SART; 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: 2*

*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 GE-SART; 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 GE-SART; 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 GE-SART; SUNY GEN ED-GART; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Music*

### **MUS 134 - Intermediate 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 GE-SART; 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. SUNY GE-SART, SDES, SHUM; 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 deportment. 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 GE-SART; 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*

### **MUS 155 - French Horn I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 156 - French Horn II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 157 - Trumpet I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 158 - Trumpet II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 159 - Trombone I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 160 - Trombone II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 161 - Baritone I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 162 - Baritone II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 163 - Tuba I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 164 - Tuba II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 165 - Percussion and Drum Set I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 166 - Percussion and Drum Set II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 167 - Violin I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 168 - Violin II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 169 - Viola I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 170 - Viola II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 171 - Violoncello I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 172 - Violoncello II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 173 - String Bass I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 174 - String Bass II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 175 - Classical Guitar I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 176 - Classical Guitar II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 177 - Organ I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 178 - Organ II**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 179 - Harp I**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 180 - Harp II**

**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: 1*

*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: 1*

*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 GE-SART; 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 GE-SART; 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 GE-SART, SDES, SHUM; SUNY GEN ED-GART, GHUM; 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, harmony, voicings, textures, forms, jazz orchestration and idiomatic writing.

SUNY GEN ED-GART; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Music*

### **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.

SUNY GE-SART, SDES, SHUM; SUNY GEN ED-GART, GHUM; NCC GEN ED-PLDI, HUM, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Music*

### **MUS 208 - History of Western Music III**

**Prerequisites:** ENG 100 or ENG 101, MUS 104 (C) or permission of Chairperson.

**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- through 21st-century composers.

SUNY GE-SHUM; SUNY GEN ED-GHUM, GART; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Music*

### **MUS 209 - Orchestra III**

**Prerequisites:** MUS 110 (3 hours).

**Description:** This is the first course in the MUS 209-MUS 210 sequence.

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

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 210 - Orchestra IV**

**Prerequisites:** MUS 110. (3 hours)

**Description:** This is the second course in the MUS 209-MUS 210 sequence.

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

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 211 - Chorus III**

**Prerequisites:** MUS 112.

**Description:** This is the first course in the MUS 211-MUS 212 sequence.  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM  
*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 212 - Chorus IV**

**Prerequisites:** MUS 112.

**Description:** This is the second course in the MUS 211-MUS 212 sequence.  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 213 - Band III**

**Prerequisites:** MUS 114. (3 hours)

**Description:** This is the first course in the MUS 213-MUS 214 sequence.  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 214 - Band IV**

**Prerequisites:** MUS 114. (3 hours)

**Description:** This is the second course in the MUS 213-MUS 214 sequence.  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 215 - Jazz Ensemble III**

**Prerequisites:** MUS 116.

**Description:** This is the first course in the MUS 215-MUS 216 sequence.  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 216 - Jazz Ensemble IV**

**Prerequisites:** MUS 227.

**Corequisites:** MUS 218.

**Description:** This is the second course in the MUS 215-MUS 216 sequence.  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 217 - Elements of Music III**

**Prerequisites:** MUS 118. Minimum grade of C required.

**Corequisites:** MUS 227.

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

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 218 - Elements of Music IV**

**Prerequisites:** MUS 217. 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. (3 hours)  
SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **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)  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **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)  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

*Offered: Fall, Spring*

*Credit Hours: 1*

*Department: Music*

### **MUS 225 - Vocal Ensemble III**

**Prerequisites:** MUS 126.

**Description:** This is the first 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 226 - Vocal Ensemble IV**

**Prerequisites:** MUS 126.

**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 GE-SART; 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 GE-SART; 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*

*Department: Music*

**MUS 256 - French Horn IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

**MUS 257 - Trumpet III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

**MUS 258 - Trumpet IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

**MUS 259 - Trombone III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

**MUS 260 - Trombone IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

**MUS 261 - Baritone III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

**MUS 262 - Baritone IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 263 - Tuba III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 264 - Tuba IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 265 - Percussion and Drum Set III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 266 - Percussion and Drum Set IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 267 - Violin III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 268 - Violin IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 269 - Viola III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 270 - Viola IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 271 - Violoncello III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 272 - Violoncello IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 273 - String Bass III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 274 - String Bass IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 275 - Classical Guitar III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring, Summer*

*Credit Hours: 2*

*Department: Music*

### **MUS 276 - Classical Guitar IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 277 - Organ III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 278 - Organ IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 279 - Harp III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 280 - Harp IV**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 281 - Electric Bass III**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 2*

*Department: Music*

### **MUS 282 - Electric Bass IV**

**Description:** 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

### MUS 287 - Jazz Improvisation Ensemble III

**Prerequisites:** MUS 186.

**Description:** This is the first course in the MUS 287-MUS 288 sequence. Rehearsal and performance of works for small jazz ensembles with an emphasis on improvisatory techniques and skills. (3 hours)  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

**Offered:** Fall, Spring

**Credit Hours:** 1

**Department:** Music

### MUS 288 - Jazz Improvisation Ensemble IV

**Prerequisites:** MUS 188.

**Description:** This is the second course in the MUS 287-MUS 288 sequence. Rehearsal and performance of works for small jazz ensembles with an emphasis on improvisatory techniques and skills. (3 hours)  
SUNY GEN ED-n/a; NCC GEN ED-FAPA, HUM

**Offered:** Fall, Spring

**Credit Hours:** 1

**Department:** Music

### MUS 295 - Independent Study-Music

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

**Credit Hours:** 3

**Department:** Music

## Music Technology

### MUT

#### MUT 100 - Introduction to Music Technology

**Prerequisites:** None.

**Description:** This course introduces students to music notation software, digital audio

workstations, and basic live sound recording system operations. Emphasis will be placed on the operation of music notation software, the principles and function of digital audio workstations and techniques on how to use software in the production and creation of digitally based music, and the principles and application of sound systems.

FAPA; HUM

**Credit Hours:** 3

**Department:** Music

#### MUT 101 - 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.  
SUNY GEN ED- n/a; NCC GEN ED- FAPA; HUM

**Offered:** Please contact Department for course offering

**Credit Hours:** 3

**Department:** Music

## NCC 101

### NCC

#### 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:** 1

**Department:** Student Personnel Services

## Nutrition

### NTR

#### 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 GE-SDES; 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:** Prerequisites 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:** Hospitality Business

### **NTR 202 - Nutrition Applications**

**Prerequisites:** NTR 201

**Description:** Prerequisites 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

## **Nursing**

### **NUR**

#### **NUR 100 - Introduction to 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 - Fundamentals of Nursing**

**Description:** Pre-requisite: ENG 100 or ENG 101, or ENG 108; MAT 102, PHI 110, PSY 203

Concurrent Requisites: AHS 131, PSY216 Pre or Concurrent Requisites Courses with SUNY Empire: HIS 3345, SOCI 3010 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 credit hours of lecture (1:1) 1:5 credit hours of lab (1:3) 2.5 credit hours clinical (1:3) = 7 credits for NUR101 Laboratory fee applies.

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

**Offered:** Fall, Spring

**Credit Hours:** 7

**Department:** Nursing

#### **NUR 105 - Comprehensive Nursing Care I**

**Prerequisites:** NUR 101 or equivalent, AHS 131, ENG 100 or ENG 101, or ENG 108, MAT 102, PHI 110, PSY 203

**Description:** Concurrent Requisites: AHS 132 Pre or Concurrent Requisites Courses with SUNY Empire: HIS 3345, SOCI 3010, NURS 3010

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: 3.5 credit hours of lecture (1:1) 2.0 credit hours of lab (1:3) 2.5 credit hours clinical (1:3) = 8 credits for NUR105 Laboratory fee applies.

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

**Offered:** Fall, Spring

**Credit Hours:** 8

**Department:** Nursing

#### **NUR 125 - Intermediate Nursing Skills**

**Prerequisites:** NUR 101 or permission of the Chairperson.

**Description:** This course offers the student the opportunity to learn or reinforce current knowledge of technical nursing skills. Opportunities are provided for both demonstration and practice of learned

skills. Skills and theoretical background are organized into a six-week module of two hours per week. This module consists of content representing an intermediate level of nursing skills. This course is open to registered nurses, licensed practical nurses, students registered in the NCC Nursing curriculum, advanced standing students, and Regents external degree candidates. This course is not part of the required nursing curriculum. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 1

**Department:** Nursing

### **NUR 135 - Advanced Nursing Skills**

**Prerequisites:** NUR 105 or NUR 125 or permission of the Chairperson.

**Description:** This course offers the student the opportunity to learn or reinforce current knowledge of technical Nursing skills. Opportunities are provided for both demonstration and practice of learned skills. Skills and theoretical background are taught in a six-week module of two hours per week. This module consists of content representing an advanced level of complexity. This course is not intended as preparation for employment in a critical care setting. It is open to registered nurses and students enrolled in the NCC Nursing Program. This course is not part of the required nursing curriculum. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 1

**Department:** Nursing

### **NUR 203 - Comprehensive Nursing Care II**

**Prerequisites:** NUR 101 and NUR 105 with a C+ or better grade, AHS 131, AHS 132, ENG 100 or ENG 101 or ENG 108, MAT 102, PSY 203.

**Description:** Pre or Concurrent Requisites: AHS 202

Pre or Concurrent Requisites Courses with SUNY Empire: HIS 3345, SOCI 3010, NURS 3010, NUR 3015.

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: 3.5 credit hours of lecture (1:1) 2.0 credit hours of lab (1:3) 2.5 credit hours clinical (1:3) = 8 credits for NUR203 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 III**

**Prerequisites:** NUR101, NUR 105, NUR 203, AHS 131, AHS 132, AHS 202, ENG 100 or ENG 101 or ENG108, MAT 102, PHI110, PSY 203, PSY 216.

**Corequisites:** ENG102 or ENG103 or ENG109, BIO131.

**Description:** Pre or Concurrent Requisites Courses with SUNY Empire: HIS 3345, HUDV 3075, SOCI 3010, NURS 3010, NURS 3015.

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: 3.5 credit hours of lecture (1:1) 2.0 credit hours of lab (1:3) 2.5 credit hours clinical (1:3) = 8 credits for NUR204 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

. Formerly 699. Students who have completed NUR 699 will not receive credit for NUR 295.

**Credit Hours:** 3

**Department:** Nursing

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## **OFT**

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### **OFT 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. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 102 - College Keyboarding**

**Prerequisites:** OFT 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. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 105 - Executive Workshop**

**Prerequisites:** OFT 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. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 107 - Machine Transcription I**

**Description:** This course is designed to develop competency in transcribing letters, memoranda, and other types of written communications using transcription equipment. Language arts skills are reinforced. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 109 - Word Processing Applications I**

**Prerequisites:** OFT 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. (2 lecture, 2 laboratory hours) Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 110 - Word Processing Applications II**

**Prerequisites:** OFT 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. (2 lecture, 2 laboratory hours) laboratory fee applies.

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

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 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 letters, reports, and a variety of other documents. This course is nontransferable. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 1

*Department: Administrative Business Tech*

### **OFT 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.

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

**Credit Hours:** 1

*Department: Administrative Business Tech*

### **OFT 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. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 1

*Department: Administrative Business Tech*

### **OFT 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. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 1

*Department: Administrative Business Tech*

### **OFT 119 - Word Processing Applications III**

**Prerequisites:** OFT 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, linking, and embedding data from a source application into a destination application. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 120 - Office Technology 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 (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 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. Laboratory fee applies. SUNY GEN ED-n/a; NCC GEN ED-n/a

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 128 - Legal Office Procedures II**

**Prerequisites:** OFT 127 or permission of the Chairperson.

**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

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 142 - Medical Transcription I**

**Prerequisites:** HIT 151 and OFT 100 or permission of the Chairperson.

**Description:** This course is designed to develop competency in transcribing medical letters. Emphasis is on comprehension of medical terminology, language arts, correct formatting, and proofreading. Laboratory fee applies.

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

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 152 - Medical Transcription**

**Prerequisites:** OFT 244 or permission of Chairperson.

**Description:** Transcription from medical dictation tapes which include letters; chart notes; histories and physicals; discharge summaries; and operative, radiology, and pathology reports. Emphasis is on comprehension of medical terminology, language arts, correct formatting, and proofreading. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

*Department: Administrative Business Tech*

### **OFT 153 - Medical Coding**

**Prerequisites:** HIT 151 or permission of the Chairperson.

**Corequisites:** HIT 151 or permission of the Chairperson.

**Description:** Introduction to current medical coding and billing procedures. Students will develop an understanding of both the ICD-9-CM and CPT-4 coding systems and will be introduced to the terminology and procedures for preparing insurance claim forms. Students will apply theory through



computer specific reinforcement exercises and activities. Laboratory fee applies.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 205 - Executive Work/Study**

**Prerequisites:** OFT 105, OFT 110 or permission of the Chairperson.

**Description:** Supervised work experience in financial and government institutions, advertising, travel, publishing, banking, and insurance giving students the opportunity to apply their classroom skills to office situations and alert them to the realities of the business environment. Weekly seminars reinforce work experience.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 207 - Machine Transcription II**

**Prerequisites:** OFT 107 or permission of the Chairperson.

**Description:** This course develops competency in transferring recorded dictation in printed form. This course includes technical skills of transcribing documents while strengthening language, punctuation, spelling, grammar, vocabulary, editing, & proofreading skills. This course also teaches listening & decision-making skills needed to produce a perfect final copy.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 225 - Legal Workshop**

**Prerequisites:** OFT 127 or permission of the Chairperson.

**Corequisites:** OFT 127 or permission of the Chairperson.

**Description:** Legal office procedures, case management, and the litigation process. Application assignments cover the job search, filing records, preparing the court calendar, and transcribing legal letters and documents. Practice sets are assigned to reinforce and enrich litigation procedures. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 226 - Legal Work/Study**

**Prerequisites:** OFT 225 or permission of the Chairperson.

**Corequisites:** OFT 225.

**Description:** Supervised work experience in cooperation with the District Attorney's office

and private law firms in Nassau County and New York City. Students are introduced to legal office procedures through observation, study, and work. Weekly seminars reinforce work experience.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 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 & management tools on the market. This course is open to all NCC students. No prerequisite.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 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.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 240 - Formatting Business Presentations**

**Description:** This course introduces students to the basics of managing and updating a business presentation through the use of popular presentation products. Topics include the structure of a business presentation, editing, and linking to other documents.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 244 - Business Writing**

**Prerequisites:** ENG 101.

**Description:** An introduction to the principles of writing business correspondence. Emphasis on composing and editing business documents, including letters, memos, e-mail messages, and reports. Language arts skills are reinforced. (3 lecture, 2 laboratory hours) Laboratory fee applies. (Also offered online).

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

**Credit Hours:** 4

**Department:** Administrative Business Tech

### **OFT 245 - Administrative Management**

**Description:** The study of managerial functions and theory. Special attention is given to issues facing office managers including the analysis of technology, office design implementation, personnel practices and concerns, and overall management of people, procedures, and equipment. (Also offered online).

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 254 - Medical Workshop**

**Description:** Front office and administrative procedures for the medical office: reports, filing, telephone techniques, human relations, and office management. Patient information, procedure and diagnostic codes, claim centers and service facilities, and billing information are presented using Medical Manager software. (2 lecture, 2 laboratory hours) Laboratory fee applies.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

### **OFT 255 - Medical Work/Study**

**Prerequisites:** OFT 254 or permission of the Chairperson.

**Description:** Supervised work experience in cooperation with selected hospitals, doctors, offices, and research institutions. Students are introduced to medical procedures through observation, study, and work. Weekly seminars reinforce work experience.

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

**Credit Hours:** 3

**Department:** Administrative Business Tech

## Physical Education

### **PED**

#### **PED 106 - Team Sports: Soccer, Volleyball and Basketball**

**Description:** This course is designed for physical educators to acquire a background on basic skills in the area of team sports, and will provide individuals with teaching tools, fundamentals, concepts and techniques on how to instruct a soccer, volleyball and basketball unit. In addition, students will expand their knowledge of the physical conditioning components necessary to participate in team

sports. Through active participation, students will be provided with a means for planning, sequencing, and teaching the fundamental skills of team sports. Upon completion of this course students will demonstrate game performance skills in soccer, volleyball and basketball, and will be able to instruct these team sports to any k-12 class of varying abilities in a fun, non-threatening environment. SUNY GEN ED-n/a; NCC GEN ED-PED  
*Offered: Fall and Spring*

*Credit Hours: 2*

*Department: Health/Physical Ed/Recreation*

### **PED 107 - Racquet Sports: Tennis, Badminton and Pickleball**

**Description:** This course is designed for physical educators to acquire a background on basic skills in the area of racquet sports, and will provide individuals with teaching tools, fundamentals, concepts, and techniques on how to instruct a tennis, badminton, and pickleball unit. In addition, students will expand their knowledge of the physical conditioning components necessary to participate in racquet sports. Through active participation, students will be provided with a means for planning, sequencing, and teaching the fundamental skills of racquet sports. Upon completion of this course students will demonstrate game performance skills in tennis, badminton, and pickleball, and will be able to instruct these racquet sports to any k-12 class of varying abilities in a fun, nonthreatening environment. SUNY GEN ED-n/a; NCC GEN ED-PED

*Offered: Fall and Spring*

*Credit Hours: 2*

*Department: Health/Physical Ed/Recreation*

### **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:** Swimming  
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  
*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: Spring*

*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 178 - 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 187 - Badminton**

**Description:** Lab fee applies.  
SUNY GEN ED-n/a; NCC GEN ED-PED  
*Offered: Spring*

*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 philosophy, 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: 0.50*

*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:** 0.50

**Department:** Health/Physical Ed/Recreation

### **PED 209 - Men's Physical Condition/Weight Training I**

**Description:** Formerly PED 301. Students who have completed PED 301 will not receive credit for PED 209. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED  
**Offered:** Fall, Winterim, Spring, Summer

**Credit Hours:** 0.50

**Department:** Health/Physical Ed/Recreation

### **PED 210 - Men's Physical Condition/Weight Training II**

**Description:** Formerly PED 303. Students who have completed PED 303 will not receive credit for PED 210. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED  
**Offered:** Fall, Winterim, Spring, Summer

**Credit Hours:** 0.50

**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:** 0.50

**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:** 0.50

**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:** 0.50

**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:** 0.50

**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:** 0.50

**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:** 0.50

**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:** 0.50

**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

**Credit Hours:** 0.50

**Department:** Health/Physical Ed/Recreation

### **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:** 0.50

**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:** Fall, Spring, Summer

**Credit Hours:** 0.50

**Department:** Health/Physical Ed/Recreation

### **PED 233 - Women's Weight Training**

**Description:** Lab fee applies. Formerly PED 403. Students who have completed PED 403 will not receive credit for PED 233. SUNY GEN ED-n/a; NCC GEN ED-PED  
**Credit Hours:** 0.50

**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:** 0.50

**Department:** Health/Physical Ed/Recreation

### **PED 235 - Women's Physical Conditioning & Weight Training**

**Description:** 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 253 - Tennis I Coed**

**Description:** Formerly PED 502. Students who have completed PED 502 will not receive credit for PED 253. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED  
**Offered:** Fall, Winterim, Spring, Summer

**Credit Hours:** 0.50

**Department:** Health/Physical Ed/Recreation

### **PED 254 - Tennis II Coed**

**Prerequisites:** PED 253/502 or PED 214/322 or PED 228/422

**Description:** Formerly PED 524. Students who have completed PED 524 will not receive credit for PED 254. Lab fee applies. SUNY GEN ED-n/a; NCC GEN ED-PED  
**Offered:** Fall, Winterim, Spring, Summer

**Credit Hours:** 0.50

**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: Fall, Spring, Summer*

*Credit Hours: 0.50*

*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: Fall, Spring, Summer*

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

### **PED 257 - Jogging Coed**

**Description:** Lab fee applies. Formerly PED 523. Students who have completed PED 523 will not receive credit for PED 257.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

### **PED 258 - Bowling I Coed**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-PED

Formerly PED 539. Students who have completed PED 539 will not receive credit for PED 258.

*Offered: Fall, Spring, Summer*

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

### **PED 259 - Bowling II Coed**

**Prerequisites:** PED 258/539

**Description:** Lab fee applies. Formerly PED 540. Students who have completed PED 540 will not receive credit for PED 259.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

### **PED 260 - Racquetball Coed**

**Description:** Formerly PED 520. Students who have completed PED 520 will not receive credit for PED 260. Lab fee applies.

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

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

### **PED 261 - Yoga Coed**

**Description:** Lab fee applies. Formerly PED 551. Students who have completed PED 551 will not receive credit for PED 261.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 0.50*

*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: Fall, Winterim, Spring, Summer*

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

### **PED 263 - Self Defense Coed**

**Description:** Lab fee applies. Formerly PED 519. Students who have completed PED 519 will not receive credit for PED 263.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 0.50*

*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. Lab fee applies. Formerly PED 657. Students who have completed PED 657 will not receive credit for PED 264.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 1*

*Department: Health/Physical Ed/Recreation*

### **PED 265 - Karate II Coed**

**Prerequisites:** PED 264/657 Formerly PED 658. Students who have completed PED 658 will not receive credit for PED 265.

**Description:** Formerly PED 658. Students who have completed PED 658 will not receive credit for PED 265.

*Credit Hours: 1*

*Department: Health/Physical Ed/Recreation*

### **PED 266 - Basic Tap Dance Coed**

**Description:** Lab fee applies. Formerly PED 530. Students who have completed PED 530 will not receive credit for PED 266.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

### **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: 0.50*

*Department: Health/Physical Ed/Recreation*

### **PED 268 - Stunts & Tumbling Coed**

**Description:** The purpose of this course is to introduce and familiarize students of theater to advance skills in stunts and tumbling, acrobatics and pyramid building. Lab fee applies. Formerly PED 621. Students who have completed PED 621 will not receive credit for PED 268.

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

*Offered: Fall*

*Credit Hours: 1*

*Department: Health/Physical Ed/Recreation*

### **PED 269 - Fundamental Dance Coed**

**Description:** Studio activity in basic contemporary techniques as they apply to performance and social dance forms for physical activity and self-expression. Emphasis placed upon elements of dance to stimulate interest in dance as participant and spectator. Lab fee applies. Formerly PED 611. Students who have completed PED 611 will not receive credit for PED 269.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 1*

*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*

*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 281 - Social Dance**

**Description:** Lab fee applies. Students who have completed PED 527 will not receive credit for PED 281.

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

*Credit Hours: 0.50*

*Department: Health/Physical Ed/Recreation*

#### **PED 282 - Outdoor Living: Wilderness, Canoeing and Camping**

**Description:** This course is designed to provide students with practical experiences 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:** Formerly 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, Summer*

*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, Summer*

*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, Winter, Spring, Summer  
**Credit Hours:** 1

**Department:** Health/Physical Ed/Recreation

**PED 288 - TRX Suspension Training**

**Description:** TRX Suspension Training uses body weight exercises to develop strength, balance, flexibility, and core stability simultaneously. It requires the use of TRX Suspension Trainer, a performance training tool that leverages gravity and the user's body weight to complete the exercises. This course is designed to provide education and instruction on the concepts and components of suspension training. Students will use the suspension system to apply foundational movement based training techniques.

Demonstration of correct form, equipment set up and use safe appropriate techniques will be implemented. Materials on current topics including, nutrition, body composition, heart rate training zones, and risk factors of heart disease will be provided. SUNY GEN ED-n/a; NCC GEN ED-PED

**Offered:** Fall, Spring, Winter, Summer  
**Credit Hours:** 1

**Department:** Health/Physical Ed/Recreation

**PED 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 will not receive credit for PED 290.

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

**PED 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

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

**Credit Hours:** 3

**Department:** Health/Physical Ed/Recreation

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## Philosophy

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**PHI****PHI 100 - Streaming Philosophy: Philosophy Through Popular Culture**

**Description:** This course serves to introduce students to the field of philosophy. Through an exploration of readings, television, movies, and other media, students will survey a range of philosophical topics. In particular, the course pairs contemporary readings on philosophical topics such as the nature of morality, justice, freedom, existence, truth, knowledge, and meaning with television shows, movies, and other media that illustrate core philosophical views on those topics. In addition, the course investigates a number of philosophical questions raised by our interactions with popular media.

SUNY GE-SDES, SHUM; SUNY GEN ED n/a  
 NCC GEN ED-HUM and WESH

**Credit Hours:** 3

**Department:** Philosophy

**PHI 101 - Introduction to Philosophy**

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

**Description:** This course serves to introduce students to the field of philosophy. Through an exploration of classic and contemporary texts, students will survey a range of philosophical topics. These topics include the nature of morality, justice, freedom, existence, truth, knowledge, meaning, and the mind.

SUNY GE-SHUM; 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 developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** This course introduces students to philosophy through contemporary texts that explore analytic and continental philosophy. Topics include the nature of meaning, language, identity, the self, social consciousness, and political action. Philosophers studied include Sartre, Wittgenstein, Arendt, Cassirer, Dewey, Russell and others.

SUNY GE-SHUM; 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 developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** This course introduces students to the elements of logical reasoning and aims to develop students' analytical and critical thinking abilities. Students will develop reasoning skills to rigorously analyze, 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 GE-SHUM; 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 developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** This course explores major philosophers from the ancient and medieval world. It begins with the transition from a mythological consciousness to philosophical reasoning in the thought of the Presocratics, and then moves on to Socrates, Plato, and Aristotle. Topics include the nature of morality, justice, freedom, existence, truth, belief, and knowledge. The tension between reason and faith in the Medieval period is examined in the works of representative thinkers of the three major monotheistic traditions.

SUNY GE-SHUM; 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 developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** This course explores central philosophical views during the Renaissance and the period following the Scientific Revolution. Topics discussed include Renaissance Humanism, the Enlightenment, God, the rise of modern science, skepticism, human rights, and the place of human beings in the universe. Representative philosophers studied are Bacon, Galileo, Descartes, Princess Elisabeth of Bohemia, Locke, Cavendish, Hume, and Kant.

SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 106 - Introduction to Ethics

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**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. Philosophers studied will include Plato, Aristotle, Immanuel Kant, John Stuart Mill and others. Special attention will be paid to how philosophy can help us to address issues such as free

speech, affirmative action, poverty, the use of technology, and environmental concerns.

SUNY GE-SHUM; SUNY GEN ED-n/a; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 107 - The Philosophy of Sex & Gender

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**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 transgender identity. The course also explores the possible connections between sex, gender, and sexual desire.

SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI

*Offered: Fall and Spring*

*Credit Hours: 3*

*Department: Philosophy*

### 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 GE-SDES, SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 110 - Biomedical Ethics

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** This course examines ethical issues that arise in the field of medicine and related areas of biomedical research. Several traditional ethical theories are introduced, theories which establish the

foundations needed for later thoughtful analysis and evaluation of specific issues. Issues analyzed typically include: truth-telling, informed consent, research on human subjects, euthanasia, disability and healthcare policy. SUNY GE-SDES, SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 111 - Business Ethics in the Digital Age

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** This course explores the ethical challenges that the digital revolution poses for businesses and the larger society, as well as ethical issues related to business in general. Attention will be given to the ways in which technological advances, especially in computing and information technology, have reshaped the relationships between businesses, workers, customers, regulators, and citizens. Some of the issues studied include: the nature of property ownership, the tension between consumer convenience, public security, and individual privacy; the potential for the pursuit of profit to undermine social and environmental well-being; the adverse effects of targeted advertising; the concern that programmers unwittingly encode discriminatory social practices; the social, political, and moral dimensions of the internet of things and 'share'/'gig' economy; the nature of corporate agency; the moral implications of corporate mergers; the moral problems with insider trading.

SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM

*Offered: Spring*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 201 - Ethics and Law Enforcement

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** Recommended for all students, and especially pertinent for pre-Law and Criminal Justice students, the course examines our legal tradition. Emphasis is placed upon the analysis of key concepts of legal and philosophical importance such as justice, freedom, civil disobedience, equality, rights, duties, and property. The relation of law to questions of race and gender will also be examined. The course readings draw from the

Constitution and Supreme Court decisions as well as classical and contemporary works. SUNY GE-SDES, SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH  
*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 203 - Philosophy of Art

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** A philosophical examination of the nature and value of the visual, musical and literary arts. Taking as examples primarily works from the contemporary period, we explore the intersections between art and related notions such as craft, decoration, beauty, entertainment, self-expression, pictorial representation and politics.

SUNY GE-SDES, SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 204 - Philosophy of Religion

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** A critical examination of the nature of religion and of religious doctrine. Topics discussed include the concept of religion, various arguments for the existence of God, the problem of evil, the rationality of faith, the nature of religious experience, and the compatibility of religion and science. Readings are drawn from philosophical, scientific, and theological sources.

SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 208 - Asian Philosophy and Religion

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**Description:** Recommended for all students interested in non-Western philosophical traditions. The course examines central themes in classical Indian and Chinese systems of thought (Daoism, Confucianism, and Buddhism) as developed in texts such as The Upanishads, The Bhagavad-Gita, the Buddhist scriptures, the Analects of Confucius, and the

Daodejing. Topics to be discussed include: the nature of virtue, the reality of the self, and the possibility of enlightenment.

SUNY GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-GLNW, HUM, PLDI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Philosophy*

### PHI 295 - Independent Study-Philosophy

**Prerequisites:** Students must have satisfied all ENG and RDG developmental requirements prior to starting the course. Please note that PHI 101 is not a prerequisite.

**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:** MAT 109. 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

#### PHY 102 - General Physics II

**Prerequisites:** PHY 101

**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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### 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, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### PHY 120 - Physics 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 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-GLAB; NCC GEN ED-LSCI.

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### PHY 122 - Engineering Physics I

**Description:** Prerequisite or Corequisite: MAT 122

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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

*Offered: Fall*

*Credit Hours: 4*

*Department: Math/Computer Science/Info Tec*

### 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI, ASC

**Offered:** Spring

**Credit Hours:** 4

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

### PHY 151 - Physics Science and Math I

**Description:** Pre or Concurrent Requisites: 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

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

### PHY 152 - Physics Science and Math II

**Prerequisites:** MAT 122 and PHY 151

**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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

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

### 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-LSC.

**Offered:** Fall

**Credit Hours:** 4

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

### 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 on basic principles rather than on applications. (5 lecture hours)

SUNY GEN ED-GLAB; NCC GEN ED-LSC.

**Offered:** Spring

**Credit Hours:** 3

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

### PHY 295 - Independent Study-Physics

**Description:** SUNY GEN ED-n/a; NCC GEN ED-ASC, LSCI

. Formerly PHY 699. Students who have completed PHY 699 will not receive credit for PHY 295.

**Credit Hours:** 3

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

## Political Science

### POL

#### POL 101 - Government and Politics in the Modern World

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS, GOWC; NCC GEN ED-SBS, GLNW

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

#### POL 111 - Nassau County: History and Government

**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 GE-SDES, SSBS, SUSC; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

#### POL 205 - Introduction to American Politics

**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 GE-SDES, SSBS, SUSC; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

#### POL 206 - State and Local Government

**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 GE-SDES, SSBS, SUSC; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

#### POL 208 - Introduction to Public Policy

**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 is 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 GE-SDES, SSBS, SUSC; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

#### POL 209 - The U.S. Presidency

**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. Presidential politics in its electoral and policy foundation aspects will be highlighted. The President's role in the economy and as a mass media communicator will be explored. SUNY GE-SDES, SSBS, SUSC; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **POL 210 - The U.S. Congress**

**Description:** The course will describe the legal structure, Constitutional powers, internal work rules and procedures, and the political dynamics of the Congress within the context of the American Federal political scheme. Special emphasis will be placed upon Congressional interactions with the coordinate branches of government as well as with external factors, such as interest groups and public opinion. SUNY GE-SDES, SSBS, SUSC; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **POL 260 - International Relations**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; GOWC; NCC GEN ED-SBS, GLNW

**Offered:** Summer

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **POL 261 - Modern Political Ideologies**

**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 GE-SDES, SSBS, SWHI; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

### **POL 295 - Independent Study-Political Science**

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

**Credit Hours:** 3

**Department:** His/PolSci/Geo/LatinAm Studies

## **Portuguese**

### **POR**

#### **POR 101 - Beginning Portuguese I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall

**Credit Hours:** 3

**Department:** Foreign Languages

#### **POR 102 - Beginning Portuguese II**

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; 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:** 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 121 - Internal Security**

**Description:** Internal theft control, investigation methods including undercover, interrogation, polygraph uses, and internal developments-their causes and consequences-are explored along with major tactics, strategies and techniques used to deter and control internal theft.

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

**Credit Hours:** 3

**Department:** Criminal Justice

#### **PSA 211 - Administration and Control of Private Security Force**

**Description:** The course explores the difference between public and private policing to identify what constitutes Private Security, including the role and functions, the selection of personnel, training of personnel, ethics and conduct of security personnel. The Hallcrest Report, the first comprehensive look at Private Security in more than a decade, is used to examine the resources, contributions and deficiencies of Private Security. The possible relationships with law enforcement agencies and the prospects for forging a partnership to combat crime are reviewed.

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

**Credit Hours:** 3

**Department:** Criminal Justice

#### **PSA 224 - Security and the Law**

**Description:** Course focuses on the various legal components applicable to Security personnel. Available sources of authority, powers, and legal restrictions are analyzed in-depth. Probable cause, the single biggest issue affecting false arrest, is thoroughly reviewed. Arrest, search and seizure, detention, interrogation and the use of force are thoroughly discussed. Special emphasis is placed on criminal and civil sanctions that can be invoked against Security personnel who abuse their authority. Ramifications of tort liability will be examined.

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

**Credit Hours:** 3

**Department:** Criminal Justice

#### **PSA 225 - Introduction to Emergency Management**

**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)**

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

*Credit Hours: 3*

*Department: Criminal Justice*

### **PSA 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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **PSY 212 - Adolescent Psychology**

**Prerequisites:** PSY 203.

**Description:** Problems of adolescence as related to childhood and maturity. Physical, emotional, social, intellectual, moral, and religious development; theories of adolescent personality development, the importance of home and community relationships.

Observations required.

SUNY GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SSBS; SUNY GEN ED-GSBS;  
NCC GEN ED-SBS

**Offered:** Spring

**Credit Hours:** 3

**Department:** Economics and Finance

### PSY 215 - Abnormal Psychology

**Prerequisites:** PSY 203.

**Description:** An introduction to the scientific study of psychological disorders. Considers the historical approaches, current theoretical models, and assessment of behavioral abnormality. A wide range of psychological disorders is considered with a focus on symptoms, theories of causation, and approaches to treatment.

SUNY GE-SSBS; SUNY GEN ED-GSBS;  
NCC GEN ED-SBS

**Offered:** Fall, Winter, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

### 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 GE-SSBS; SUNY GEN ED-n/a; NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

### 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 GE-SSBS; SUNY GEN ED-GSBS;  
NCC GEN ED-SBS

**Offered:** Spring

**Credit Hours:** 3

**Department:** Economics and Finance

### 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 GE-SSBS; SUNY GEN ED-GSBS;  
NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

### 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 GE-SDES, SSBS; SUNY GEN ED-GSBS;  
NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

### 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 GE-SSBS; SUNY GEN ED-GSBS;  
NCC GEN ED-SBS

**Credit Hours:** 3

**Department:** Economics and Finance

### 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 GE-SSBS; SUNY GEN ED-GSBS;  
NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

### PSY 242 - The Psychology of People of African Descent

**Description:** Prerequisite: PSY 203 with a minimum grade of C

The course provides a comprehensive of the social psychological development and function of African descent people (e.g. African American, Afro-Caribbean, Afro-Latino) with and emphasis on the emergence of patterns, thoughts, feelings and behavior shape by the complex social-cultural landscape in the United States. Particular attention will be given to the protective role of neighborhoods, churches and other environments in fostering healthy developments, including positive identity interconnected cultural beliefs, prosocial behaviors, and elaborate familial and extended supportive networks. Social and cultural variables.(e.g., racial socialization) and historical context that have contributed to the resiliency, adaptability and healthy functioning of people of African descent will also be discussed.

SUNY GE-SDES, SSBS; NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

### PSY 243 - Cross-Cultural Psychology

**Description:** Prerequisite: PSY 203

Culture shapes human cognition in a multitude of ways. Through the lens of psychological science, we explore how "intangible" forces of our cultural environment (e.g., gender, race, ethnicity, socioeconomics, etc.) influence our self-concept as well as what, when, why, and how we think, perceive and behave. Students will discover the interplay in how culture shapes the brain and how the brain changes culture. Cross-culture differences and multicultural issues are discussed, incorporating empirical research to explore the experiences of living in a diverse and global society. SUNY GE-SDES, SSBS; SUNY GEN ED; NCC GEN ED-SBS, PLDI

**Offered:** Fall, Spring, Summer, Winter

**Credit Hours:** 3

**Department:** Economics and Finance

### PSY 244 - Forensic Psychology

**Prerequisites:** PSY 203.

**Description:** This is an introductory course to the field of forensic psychology which focuses on the application and practice of psychology as it pertains to the legal system. The course examines both the practice of clinical psychology, and the application of psychological sciences (e.g., cognition, social, developmental), in areas such as, but not limited to, forensic assessment and expert testimony in civil and criminal proceedings, understanding and treatment of violent behavior and criminal offenders, and similarities and differences between assessment of adult and juvenile offenders. The course will examine these topics and others through readings and discussions of scientific literature, the text, and landmark legal cases relevant to psychology.

NCC GEN ED-SBS

**Offered:** Fall, Winter, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

### 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:** Economics and Finance

### 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:** Economics and Finance

# Critical Reading & Academic Advisement

## RDG

### RDG 000 - RDG 000 Academic Reading for Beginner ESL Students (ESL RDG Beginner)

**Prerequisites:** Placement into course.

**Description:** RDG 000 is for English language learners at a beginner level whose goal is to be successful in credit-bearing courses at NCC. This course is for non-native English speakers to develop academic reading skills at a beginner level. Students will focus on developing comprehension, vocabulary, and critical thinking skills. Proficiency in these skills will prepare the student for entrance into RDG 010. (3hrs lecture) Entrance exams are required.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 0

**Department:** English

### 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:** English

### 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:** English

### RDG 003 - Individualized Reading and Reading/Studying College Texts

**Description:** 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 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:** 0

**Department:** English

### RDG 010 - RDG 010 Academic Reading for Low Intermediate ESL students

**Prerequisites:** Successful completion of ENG 000 or placement into the course.

**Description:** RDG 010 is for English language learners at a low intermediate level whose goal

is to be successful in credit-bearing courses at NCC. This course is for non-native English speakers to develop academic reading skills at an intermediate level. Students will focus on developing comprehension, vocabulary, and critical thinking skills. Proficiency in these skills will prepare the student for entrance into RDG 020. (3hrs lecture) Entrance exams are required.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 0*

*Department: English*

### **RDG 020 - RDG020 - Academic Reading for Intermediate ESL Students**

**Prerequisites:** Successful completion of ENG 010 or placement into the course.

**Description:** RDG 020 is for English language learners at a low intermediate level whose goal is to be successful in credit-bearing courses at NCC. This course is for non-native English speakers to develop academic reading skills at an intermediate level. Students will focus on developing comprehension, vocabulary, and critical thinking skills. Proficiency in these skills will prepare the student for entrance into RDG 030. (3hrs lecture) Entrance exams are required.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 0*

*Department: English*

### **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: English*

### **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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: English*

### **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: English*

### **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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: English*

### **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 GE-SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: English*

## 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 and digital 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 127 - Foreign Buying

**Prerequisites:** Completion of all remedial courses needed prior to application, a minimum of 2.5 grade point average and completion of 15 or more credits. Permission of instructor required.

**Description:** This course provides qualified students an opportunity to learn selected methods and techniques involved in foreign buying. Independent research, a buying plan, and visits to major international cities are included. Special expenses for students' airfare, food, lodging, taxes, transfers, etc.

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

**Credit Hours:** 3

**Department:** Marketing & Retailing

### RET 135 - Contemporary Retailing

**Description:** This course provides students of retail business management with an analysis of the manager's function from the perspective of the first line operations manager. Lecture, case analysis using specific research techniques and field trips as appropriate, will be utilized to develop insight and problem solving skills for today's retail manager. Field trips to retail stores will concentrate on human resource and merchandising functions, customer service techniques and financial control. Additional transportation expenses may be required. 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

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. This course is not intended for students of Russian speaking background. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Foreign Languages

#### RUS 102 - Beginning Russian II

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required.

SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Foreign Languages

#### RUS 201 - Intermediate Russian I

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

**Offered:** Fall

**Credit Hours:** 3

**Department:** Foreign Languages

#### RUS 202 - Intermediate Russian II

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, GLNW

**Offered:** Spring

**Credit Hours:** 3

**Department:** Foreign Languages

#### RUS 295 - Independent Study-Russian

**Description:** SUNY GE-SHUM, SWOL; SUNY GEN ED-n/a; NCC GEN ED-HUM. Formerly RUS 699. Students who have completed RUS 699 will not receive credit for RUS 295.

**Credit Hours:** 3

**Department:** Foreign Languages

## Physical Sciences

### SCI

#### SCI 101 - Exploring Basic Concepts in 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 GE-SSCI; SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

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

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

**SCI 103 - 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.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Physical Sciences*

**SCI 104 - 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.

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

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Physical Sciences*

**SCI 105 - 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. SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Physical Sciences*

**SCI 106 - Stellar and 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.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Physical Sciences*

**SCI 107 - 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. Formerly SCI 107. Students who have completed SCI 107 will not receive credit for MET 101. (3 lecture, 3 laboratory hours) Lab fee applies. SUNY GEN ED-GLAB; NCC GEN ED-LSCI.

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Physical Sciences*

**SCI 108 - 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. (3 lecture, 3 laboratory hours) Lab fee applies.

SUNY GEN ED-GLAB; NCC GEN ED-GLNW, LSCI.

*Offered: Fall, Spring*

*Credit Hours: 4*

*Department: Physical Sciences*

**SCI 109 - 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.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Physical Sciences*

**SCI 110 - Environmental Resources**

**Prerequisites:** SCI 109 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.

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 4*

*Department: Physical Sciences*

### **SCI 115 - 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.

SUNY GEN ED-n/a; NCC GEN ED-ASC, NSCI

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*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 119 - 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. (3 lecture hours)

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

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Physical Sciences*

### **SCI 120 - Environmental Issues of Metropolitan New York**

**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.

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

*Offered: May Special*

*Credit Hours: 4*

*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 GE-SSCI; SUNY GEN ED-n/a; NCC GEN ED-n/a

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

### **SCI 150 - 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.

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

*Offered: Fall, Winterim, Spring*

*Credit Hours: 4*

*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: Math/Computer Science/Info Tec*

### **SCI 203 - Field Laboratory Geology**

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

*Offered: May Special*

*Credit Hours: 4*

*Department: Physical Sciences*

### **SCI 209 - Fundamentals of Environmental Safety and 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.

SUNY GEN ED-n/a; NCC GEN ED-ASC, NSCI.

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: Physical Sciences*

### **SCI 295 - Independent Study-Science**

**Description:** SUNY GEN ED-n/a; NCC GEN ED-ASC, LSCI

. Formerly 699. Students who have completed SCI 699 will not receive credit for SCI 295.

*Credit Hours: 3*

*Department: Math/Computer Science/Info Tec*

## **Sociology**

### **SOC**

#### **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 GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Winterim, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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: Economics and Finance*

#### **SOC 207 - Sociology of Religion**

**Prerequisites:** SOC 201 or ANT 203.

**Description:** The relationship between religion and society. Religion and social class. Religious groups as minority groups. Religious prejudice and discrimination. Contemporary American religious movements. Religion and social change.

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

*Offered: On Occasion*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-PLDI, SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **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 GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Economics and Finance*

#### **SOC 211 - Independent Study-Sociology**

**Description:** Develop an understanding of race, class, and gender differences in American society and comparative materials on other societies. Sociological explanations of inequalities and interrelationships between race, class and gender. Sociological analysis of stereotyping, prejudice, and discrimination; class, privilege, and disadvantage. Class, ethnic and racial cultures, intergroup conflict and reduction of intergroup tensions.

*Credit Hours: 3*

*Department: Sociology/Anthropology/SociWrk*

**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 GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

**SOC 214 - African American Culture**

**Description:** (Dual listed with AFR 185). 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 GE-SART; SUNY GEN ED-GSBS; NCC GEN ED-PLDI, SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

**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

**Offered:** On Occasion

**Credit Hours:** 3

**Department:** Economics and Finance

**SOC 216 - Aging, Society and Culture**

**Prerequisites:** SOC 201 or ANT 203.

**Description:** Students will explore the diverse aspects of aging through field research and a survey of the literature. Topics will 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

**Offered:** On Occasion

**Credit Hours:** 3

**Department:** Economics and Finance

**SOC 219 - The African American Family**

**Prerequisites:** SOC 201 or ANT 203 or permission of Instructor.

**Description:** (Dual listed with AFR 186). 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:** Economics and Finance

**SOC 220 - Sociology of the Family**

**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 GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Economics and Finance

**SOC 222 - Sociology of Gender**

**Prerequisites:** SOC 201 or ANT 203.

**Description:** This course introduces students to sociological perspectives on gender and sexuality. It focuses on the social construction of gender and sexuality in the American and European contexts, from interaction and socialization to inequality and social movements. Topics include power and inequality, gender diversity (including transgenderism), sexuality and heterosexism, representations of women and men in the mass media, and gender and social change.

SUNY GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS, PLDI

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** Economics and Finance

**SOC 225 - Sociology of Health Care**

**Prerequisites:** SOC 201 or ANT 203 or permission of Instructor.

**Description:** Health and illness in American society and in cross-cultural perspective. Hospitals as organizations with complex staffs, needs and goals. Community and hospital in interaction. Health care delivery in a changing society.

SUNY GE-SDES, SSBS; SUNY GEN ED-GSBS; NCC GEN ED-SBS

**Offered:** Fall

**Credit Hours:** 3

**Department:** Economics and Finance

**SOC 295 - Independent Study-Sociology**

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

**Credit Hours:** 3

**Department:** Economics and Finance

## Spanish

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**SPA**

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**SPA 101 - Beginning Spanish I**

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension and simple conversational patterns. This course is not intended for students of Spanish speaking background. Laboratory fee applies. Laboratory component required. SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

**SPA 102 - Beginning Spanish II**

**Description:** Fundamentals of grammar, pronunciation, culture and conversation. Reading, writing, listening comprehension, and simple conversational patterns. Laboratory fee applies. Laboratory component required. SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Foreign Languages

**SPA 110 - Spanish for Hotel Restaurant Technology**

**Description:** Fundamentals of specifically focused grammar geared for the acquisition of a limited but working knowledge of Spanish as needed and found in the hotel restaurant environment. Emphasis on aural comprehension and oral proficiency determined by various task-oriented exercises

involving pair and group work. Laboratory fee applies. Laboratory component required.

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

*Offered: Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 121 - Spanish for Law Enforcement**

**Description:** A conversational course for students in law enforcement areas who wish to communicate effectively with Spanish-speaking people. Presentation and practice of basic vocabulary appropriate for use in typical law enforcement situations. Emphasis on oral proficiency and listening comprehension. Laboratory fee applies. Laboratory component required.

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

*Offered: Fall*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 151 - Practical Spanish for Medical Personnel I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM

*Offered: Fall*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 152 - Practical Spanish for Medical Personnel II**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM

*Offered: Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 201 - Intermediate Spanish I**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 202 - Intermediate Spanish II**

**Description:** This is the second 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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring, Summer*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 205 - Intermediate Spanish for Bilingual Speakers I**

**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 GE-SHUM, SWOL; 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**

**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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 225 - Spanish for Business**

**Prerequisites:** 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. Laboratory fee applies. Laboratory component required.

SUNY GEN ED-GFOL; NCC GEN ED-HUM

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 251 - Practical Spanish for Medical Personnel I**

**Prerequisites:** Satisfactory completion of ENG 001 and RDG 002. SPA 101 or equivalent.

**Description:** This is the first course in the SPA 251-SPA 252 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.

SUNY GEN ED-GFOL; NCC GEN ED-HUM

*Offered: Fall*

*Credit Hours: 3*

*Department: Foreign Languages*

### **SPA 252 - Practical Spanish for Medical Personnel II**

**Prerequisites:** Satisfactory completion of ENG 001 and RDG 002. SPA 251 or SPA 101 or equivalent.

**Description:** This is the second course in the SPA 251-SPA 252 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.

SUNY GEN ED-GFOL; NCC GEN ED-HUM

*Offered: Spring*

**Credit Hours:** 3

**Department:** Foreign Languages

### SPA 261 - Spanish Conversation and Culture I

**Description:** This is the first course in the SPA 261-SPA 262 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 Spanish. Formerly SPA 301. Students who have completed SPA 301 will not receive credit for SPA 261  
SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Credit Hours:** 3

**Department:** Foreign Languages

### SPA 262 - Spanish Conversation and Culture 2

**Description:** This is the second course in the SPA 261-SPA 262 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 Spanish. Formerly SPA 302. Students who have completed SPA 302 will not receive credit for SPA 262  
SUNY GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH

**Offered:** Spring

**Credit Hours:** 3

**Department:** Foreign Languages

### SPA 271 - Spanish Literature 1

**Prerequisites:** 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 GE-SHUM, SWOL; SUNY GEN ED-GFOL; NCC GEN ED-HUM, WESH, LIT

**Offered:** Fall

**Credit Hours:** 3

**Department:** Foreign Languages

### SPA 272 - Spanish Literature 2

**Prerequisites:** 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 402. Students who have

completed SPA 402 will not receive credit for SPA 272

SUNY GE-SHUM, SWOL; 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:** 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 GE-SHUM, SWOL; 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:** 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 GE-SHUM, SWOL; 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

#### 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 103 - Academic Success

**Prerequisites:** Course restricted to students on Academic Warning status, Academic Probation status and students returning after Academic Dismissal.

**Description:** Academic Success is a course designed to help at-risk students assess and apply the life skills and the academic strategies they need in order to improve their academic performance. Students will explore the factors that contributed to their academic difficulty and learn how to develop a comprehensive plan for academic

success. Topics to be covered include: organizational techniques, effective planning, self-assessment, motivation, and self-management.

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

*Offered: Fall, Winter, Spring, Summer*

*Credit Hours: 1*

*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 GE-SDES; 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 GE-SDES; 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 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: Student Personnel Services*

# Studio Recording Technology

## SRT

### **SRT 101 - Music Business I**

**Corequisites:** SRT 103 and SRT 105.

**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**

**Prerequisites:** Minimum grade of C in SRT 101.

**Corequisites:** SRT 104 and SRT 106.

**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 and 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: 6*

*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: 6*

*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 students.

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*

### **SRT 295 - Independent Study-Studio Recording Technology**

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

*Credit Hours: 3*

*Department: Music*

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## Statistics

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### STA

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### **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*

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## Telecommunications Technology

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### TCT

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

#### **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 stimulation 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: Math/Computer Science/Info Tec*

#### **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 spectrum, 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: Math/Computer Science/Info Tec*

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

#### **TCT 253 - Telecommunications III - LAS**

**Description:** Prerequisites or Corequisite: TCT 144 and Concurrency Allowed: CRT202 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 interconnecting 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: Math/Computer Science/Info Tec*

#### **TCT 254 - Telecommunications IV**

**Prerequisites:** TCT 253.

**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: Math/Computer Science/Info Tec*

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## Theatre

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### THR

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**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 GE-SART; 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 GE-SART, SHUM; 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 drama which may, whenever possible, be performed in the community.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** Theatre & Dance

**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 GE-SART; 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 GE-SART; 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**

**Prerequisites:** Permission of the Chairperson required.

**Description:** Intensive training in the production, rehearsal and performance of plays.

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:** Fall

**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**

**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 118 - 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 119 - Stage Movement and Combat**

**Description:** Prerequisite: for Acting A.A. degree majors only or permission of the Department.

This course introduces actors to the technique of stage combat. Students will be trained in the safe use and execution of unarmed, or sword techniques for the stage. Emphasis on safety, partnering, discipline, and theatrical movement will be applied to create dynamic storytelling. Students can expect to gain the basic physical vocabulary and technique of stage combat.

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.

**Description:** A continuation of THR 101 surveying the developments of theatre from the Renaissance through the present. Emphasis on major movements in theatre and drama through representative dramatists, and an outline of contemporary and European theatre practice. Attendance at theatrical productions required. (See THR 101)

SUNY GE-SART, SHUM; SUNY GEN ED-GHUM, GART; NCC GEN ED-FAPA, HUM, WESH

*Offered: Spring*

*Credit Hours: 3*

*Department: Theatre & Dance*

### **THR 202 - Lighting Fundamentals**

**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 - Design Fundamentals**

**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 GE-SART; 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 GE-SART; 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: 1*

*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: 1*

*Department: Theatre & Dance*

### **THR 217 - African American Theatre Ensemble, Rehearsal and Performance**

**Description:** (Dual listed with AFR 193).

This is the first 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: Fall*

*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 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 recorded performances 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, WESH

*Offered: Spring*

*Credit Hours: 3*

*Department: Theatre & Dance*

### **THR 295 - Independent Study-Theatre**

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

*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*

*Department: Math/Computer Science/Info Tec*

#### **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*

*Department: Math/Computer Science/Info Tec*

#### **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*

*Department: Math/Computer Science/Info Tec*

#### **TNY 181 - Telecommunications I -Voice**

**Prerequisites:** TNY 171

**Corequisites:** TNY 173

**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 spectrum, modulation schemes and multiplexing techniques will be explored. Lectures, 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*

*Department: Math/Computer Science/Info Tec*

#### **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*

*Department: Math/Computer Science/Info Tec*

#### **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. 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*

*Department: Math/Computer Science/Info Tec*

#### **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*

*Department: Math/Computer Science/Info Tec*

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

### TTY 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:** Math/Computer Science/Info Tec

## Women's Studies

### UXI

#### UXI 101 - UX Design I

**Description:** Students will be introduced to user experience (UX) design, including the key stages of the design process, design ethics, and the methods and tools used in each stage of design. Students will conduct formative research on customers, users, contexts of use, and tasks. Students will gain experience and learn about user research methods to create intermediate design tools. Students will develop and submit a draft proposal for a selected project. Average 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

## 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 an 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)

**Description:** Formerly BEP 091. Students who have completed BEP 091 will not receive credit for WRT 001.

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

**Offered:** Fall, Spring

**Credit Hours:** 4

**Department:** English

#### WRT 020 - WRT 020: ESL College Preparatory Course

**Description:** WRT 020 is an intensive college writing prep course for English language learners at an intermediate level whose goal is to be successful in credit-bearing courses at NCC. This course prepares students for ENG 030 or higher. It focuses on the development of English grammar, vocabulary, sentence structure and basic composition. Students should also read and analyze extensive passages. By the end of the semester, students are expected to write well-developed essays and improve them through editing strategies. Students will be assessed through numerous measures including written responses to intermediate texts. The primary means of passing WRT 020 with a score of "Satisfactory" is through the successful completion of a timed departmental exit exam (i.e., argumentative essay) in accordance with the ESL English Department rubrics.

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

**Offered:** Fall, Spring, Summer

**Credit Hours:** 4

**Department:** English

## Women's Studies

### WST

#### 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 GE-SDES, SHUM; SUNY GEN ED-n/a; NCC GEN ED-HUM, PLDI, WESH

**Offered:** Fall, Spring, Summer

**Credit Hours:** 3

**Department:** English

#### 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 GE-SDES, SHUM; SUNY GEN ED-n/a; NCC GEN ED-HUM, PLDI

**Offered:** Fall, Spring

**Credit Hours:** 3

**Department:** English

#### 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 GE-SDES, SHUM; SUNY GEN ED-GHUM; NCC GEN ED-HUM, PLDI

**Offered:** Fall and Spring

**Credit Hours:** 3

**Department:** English

#### 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 GE-SDES, SHUM; SUNY GEN ED-n/a; NCC GEN ED-GLNW, PLDI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: English*

**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 GE-SDES, SHUM; SUNY GEN ED-GOWC; NCC GEN ED-GLNW, PLDI

*Offered: Fall, Spring*

*Credit Hours: 3*

*Department: English*