

# CURRICULUM SUPPLEMENT to the UNDERGRADUATE CATALOG

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2006-2007

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This Curriculum Supplement contains information about new courses, changes in courses, and changes in degree requirements implemented by the College since the printing of the current *Undergraduate Catalog* 2005-2007 effective fall 2006

**COLLEGE OF STATEN ISLAND**  
*The City University of New York*

## COLLEGE CALENDAR

This calendar is subject to change. Check the College Website at [www.csi.cuny.edu/currentstudents/academiccalendars/](http://www.csi.cuny.edu/currentstudents/academiccalendars/) for the most updated information.

### FALL 2006

|              |                 |  |
|--------------|-----------------|--|
| Aug. 30      | Wednesday       | First day of classes   |
| Sept. 4      | Monday          | College closed   |
| Sept. 22 -24 | Friday-Sunday   | No classes   |
| Sept. 29     | Friday          | Last day to file for January 2007 graduation<br>Last day to file for spring 2007 readmission |
| Oct. 2       | Monday          | No classes   |
| Oct. 3       | Tuesday         | Classes follow Monday schedule   |
| Oct. 9       | Monday          | College closed   |
| Oct. 24      | Tuesday         | Mid-term grades due  |
| Nov. 22      | Wednesday       | Classes follow Friday schedule   |
| Nov. 23-24   | Thursday-Friday | College closed   |
| Dec. 13      | Wednesday       | Last day of classes<br>Last day to remove incomplete grades from spring and summer 2006      |
| Dec. 14-22   | Thursday-Friday | Final Examinations   |
| Dec. 24-25   | Sunday-Monday   | College closed   |
| Jan. 1       | Monday          | College closed   |
| Jan. 15      | Monday          | College closed   |

### SPRING 2007

|           |                |  |
|-----------|----------------|--|
| Jan. 29   | Monday         | First day of classes   |
| Feb. 12   | Monday         | College closed   |
| Feb. 15   | Thursday       | Classes follow Monday schedule   |
| Feb. 19   | Monday         | College closed   |
| Feb. 21   | Wednesday      | Classes follow Monday schedule   |
| Mar. 1    | Thursday       | Last day to file for June/August 2007 graduation<br>Last day to file for fall 2007 readmission |
| Mar. 20   | Tuesday        | Mid-term grades due  |
| Apr. 2-10 | Monday-Tuesday | No classes, Spring Recess  |
| May 17    | Thursday       | Last day of classes<br>Last day to remove incomplete grades from fall 2006 and winter 2007     |
| May 18-25 | Friday -Friday | Final Examinations   |
| May 28    | Monday         | College closed   |
| May 31    | Thursday       | Commencement   |

# Curriculum Supplement to the Undergraduate Catalog 2006–2007

## NEW UNDERGRADUATE COURSES:

### **CHN 215 Continuing Mandarin Chinese II**

4 hours; 4 credits

This course is for those students who have successfully completed the first semester of Continuing Mandarin Chinese (CHN 213) or who have been placed into this intermediate level. Using computer-assisted technology, the course will further develop skills and proficiency in listening, speaking, reading, and writing in Mandarin Chinese. Greater emphasis will be placed on transitioning from spoken to written languages.

Prerequisites: CHN 213 or placement, and by permission of the Department of Modern Languages. Passing the CUNY/ACT Writing and Reading test.

### **CIN 120 Video II**

4 hours; 3 credits

An introductory course with an emphasis on digital video post-production software. Students' original material will be the basis for progressive exercises in non-linear editing platforms.

Prerequisite: CIN 111 or permission of the Department of Media Culture

### **CIN 203 Chinese Cinema**

4 hours; 4 credits

A study of Chinese cinema's major movements and events, featuring major directors from Hong Kong, the People's Republic of China, and Taiwan.

Prerequisite: CIN 100 or ENG 111

### **CIN 305 Film Genres**

4 hours; 4 credits

Study of film genre. The course examines the concept of genre in film and other media, while considering the formal characteristics, narrative patterns, characteristic themes, and conventions of one or more specific film genres.

Prerequisite: CIN 210 or CIN 220

### **CIN 497 Senior Project**

4 hours; 4 credits

An interdisciplinary seminar focused on students' honors and thesis projects in the Cinema major.

Prerequisite: 12 credits in 300–400-level cinema courses

### **COM 217 Voice and Diction for Performance and Communication**

(Also DRA 217)

4 hours; 4 credits

Concentration on pronunciation, enunciation, accent reduction, diaphragmatic breathing, relaxation techniques, and body alignment. Especially good for anyone considering a career in the public arena, including politics, management, theater, education, and communication. (Can be repeated for credit.)

**DRA 217 Voice and Diction for Performance and Communication**

(Also COM 217)

4 hours; 4 credits

Concentration on pronunciation, enunciation, accent reduction, diaphragmatic breathing, relaxation techniques, and body alignment. Especially good for anyone considering a career in the public arena, including politics, management, theater, education, and communication. (Can be repeated for credit.)

**DRA 273 Performance Histories (1600–1900)**

4 hours; 4 credits

A survey of the English Restoration, French Neo-Classicism and the comedies of Moliere, and the ensuing century of diverse theatrical forms during the 1700s in England and France. Students will also study Asian and African forms of performance and then the emergence of theater in America, including populist entertainments like the Wild West show, minstrelsy, and melodrama, and move back to Europe for the beginnings of realism and naturalism with Ibsen and Chekhov. Performance will be considered in this class as an integral and vital part of social, political, and cultural dynamics. Students who wish to continue in the major should earn a B- or better in the course.

Prerequisite: ENG 151 or DRA 140

**DRA 274 Performance Histories (1901–Present)**

4 hours; 4 credits

A survey of the range of 20th-century performance beginning with the historical avant-garde movements in Europe and America after World War I. It also includes South Asian Indian, Asian, and/or South Asian performance forms, especially including cross- or intercultural experimentation. It may include the Harlem Renaissance, feminist theater, the experimental theater of the 1960s and 1970s, Latino theater, Gay theater, political street theater, performance art, image theater, and puppetry. Performance will be considered in this class as an integral and vital part of social, political, and cultural dynamics. Students who wish to continue in the major should earn a B- or better in the course.

Prerequisite: ENG 151 or DRA 140

**DRA 315 Theater and Education**

4 hours; 4 credits

A theoretical and experiential approach to the ways that theater can be used as a tool by elementary and secondary school teachers. Students will study excerpts of key texts and learn theatrical games and exercises for application in the classroom.

Prerequisite: Any 200-level ENH course

**DRA 321 Directing**

4 hours; 4 credits

An introduction to the complex art of directing. Students will begin by considering the question of what it is that a director does, and developing a range of basic skills and theatrical languages. By the end of the class, students will have the opportunity to direct a scene. Students are required to act in the scenes and exercises directed by other students.

Prerequisites: DRA 110, DRA 373

### **DRA 331 Design for the Theater**

4 hours; 4 credits

An overview of design practices in theater history with a combined emphasis on developing student skills in conceptualizing a design and preparing materials to present that design.

Prerequisites DRA 141, DRA 142, DRA 373

### **DRA 350 Theater for Social Action**

4 hours; 4 credits

A survey of the history and practice of community-based theater. Theater groups like the San Francisco Mime Troupe, El Teatro Campesino, At the Foot of the Mountain, and The Heart of the Beast will be studied as examples of how the significance of theater as an art form can be expanded through a commitment to social justice and aesthetic diversity.

Prerequisites: DRA 110; DRA 272 or DRA 273 or DRA 274

### **DRA 352 Theater and Therapy**

4 hours; 4 credits

An overview of how theater and theater techniques can be applied for therapeutic needs and as an alternative to violence. Through exercises, students will be encouraged to experience their physicality, develop their ability to express their emotions, and to nurture individual insight and awareness of themselves and others. The work of Augusto Boal will form the foundation for the course.

Prerequisite: DRA 110; or any 200-level ENH course

### **DRA 373 The Theatrical Imagination**

4 hours; 4 credits

Investigation of theater as a uniquely visual medium that is dependent on the imaginative use of bodies in sculpted space. Students will work to extend the use of their own bodies and experiment with diverse materials to learn to create imaginative stage images. They will also study the work of artists, sculptors, and theater artists who work in striking configurations of space, material elements, and bodies. The course is useful to all students of theater, whether they are interested in acting, directing, or design.

Prerequisites: DRA 140; DRA 272 or DRA 273 or DRA 274

### **DRA 375 New Performance**

4 hours; 4 credits

A consideration of artists who work in performance art, solo performance, puppetry, performance-choirography, and performance-technology. Students will create their own works in one or more of these genres. Each student will be expected to write original performance texts. Students are welcome to work with video, film, and or Web-based technology in this class.

Prerequisites: DRA 110, DRA 373

### **DRA 380 Women in Performance**

4 hours; 4 credits

This class is a study of performing women, in particular women performance artists, who have made a significant difference in helping women's images and voices achieve greater representation in culture as a whole. Students will study works by the artists, reviews, and critical writing about the works, and create their own performances.

Prerequisite: Any 200-level ENH or WMS course

### **DRA 470 Junior Project**

4 hours; 4 credits

Student-initiated work that extends and develops his or her area of interest. Proposed to and supervised by a faculty member, a student might wish to develop an acting scene or monologue, direct a scene or one-act, design a puppetry piece or performance installation, do a theater-based video piece, design a one-act, do an independent academic research project, or stage manage a production. The project is undertaken by an individual student, but that student may ask other students to participate in his or her project. Sophomores may be granted permission by a faculty member to do stage management and get credit for the Junior Project.

Prerequisite: Permission of instructor

### **DRA 490 Senior Project**

4 hours; 4 credits

Same as the Junior Project but faculty members may agree to supervise more advanced work than when students are juniors

Prerequisite: Permission of instructor

### **ENH 218 Introduction to the Study of Literature**

4 hours; 4 credits

An introduction to the study of literature and specifically to the ways that people think, talk, and write about literature. It addresses the basic questions of literary study and its vocabulary: What is literature? What are the main kinds of literature? And what are the main approaches to the study of literature? The course includes reading and writing about a selection of major works that represent a variety of periods and movements. It is required of all English majors and offers the rudiments of the knowledge necessary for further study and teaching in the field. Satisfies the General Education category of Textual, Aesthetic, and Linguistic Analysis for non-English majors (TALA).

Prerequisite: ENG 151

### **ENS 463/PHY 463 Introduction to Nanotechnology**

2 hours lecture; 4 hours laboratory; 4 credits

This is an introductory course on nanotechnology. It covers the physical basics of submicron- and nano-size structures, methods and materials of nanotechnology, characterization of nanostructures, and their industrial applications. The course covers (i) mechanical, electronic, and optical properties of nanoscopic systems; (ii) engineering approaches in nano-electro-mechanics, nanoelectronics, and

nanophotonics; (iii) practical computer simulation and design of nanodevices; and (iv) practical nanofabrication of rudimentary nanodevices with focused ion beams.

Prerequisite: ENS/PHY 385

### **GEO 110 Field and Environmental Geology of Hawaii**

**Hours:** Lecture—45 hours (minimum); Laboratory and Field Application—30 hours (minimum). A total of 75 hours.

**Credits:** 4 credits—3 credits Lecture and 1 credit Laboratory

A supervised geologic study of the island of Hawaii, stressing the field and environmental geology of active volcanoes within a framework of plate tectonics and hot-spot geology. Fundamental igneous, sedimentary, and metamorphic processes will be emphasized. Students will be introduced to geologic mapping techniques, including the use of aerial photographs, topographic maps, and the Brunton compass in the construction of geologic maps and cross-sections. (Scientific Analysis)

Prerequisite: GEO 100 or equivalent course with the approval of the instructor.

### **HON 223 Science and Technology in New York**

4 hours; 4 credits

An analysis of selected scientific and technological topics that have an impact on contemporary New York. Such topics might include, among others, communications and computer technologies, civil engineering and other applications of the physical sciences and environmental and medical issues in the urban setting. Students will read and interpret scientific literature; learn the necessary technical concepts to understand their readings; examine scientific research methods; and engage in the process of scientific inquiry as they undertake an original research project.

Prerequisite: Sophomore CUNY University Scholars status

### **HST 231 Reacting to the Past**

4 hours; 4 credits

A course that immerses students in three historic periods, widely separated in time and place, assigning them roles as actors in the events they are studying. Arguments come from works containing speeches and actions that the historical characters used in their time. The instructor functions as game master while the students play the game themselves.

Prerequisites: ENG 111 and COR 100

### **HST 275 Imperial Russia**

4 hours; 4 credits

A survey of the history of Imperial Russia, from Peter the Great to the Russian Revolution of 1917.

Prerequisites: ENG 111, and any college-level history course or COR 100

### **HST 284 The Soviet Union and Contemporary Russia**

4 hours; 4 credits

A survey of the history of the Soviet Union and its successor states from 1917 to the present. For History majors and minors, this is designated as a European history course: (The Contemporary World)

Prerequisites: ENG 151 and COR 100

### **HST 323 Themes in Roman Republican and Imperial History**

4 hours; 4 credits

The history of Rome, from village to empire, through the discussion of political as well as social, economic, and cultural issues. For History majors and minors this is a designated pre-1700 course.

Prerequisites: ENG 151 and any 200-level history course

### **ITL 120 Intensive Italian I**

6 hours; 6 credits

A beginning intensive course in the fundamentals of expression and communication for those who have had no previous work in the language and are interested in pursuing upper-division courses in Italian. By the end of the semester the student will have completed a program that provides a strong basis in the functional literacy in Italian.

Prerequisite: Passing the CUNY/ACT Writing and Reading tests

### **ITL 220 Intensive Italian II**

6 hours; 6 credits

A continuing intensive course in the fundamentals of expression and communication for those who have successfully completed ITL 120 Intensive Italian I, and are interested in pursuing upper-division courses in Italian. Particular emphasis will be placed on written and oral communication based on selected cultural readings.

Prerequisites: Passing the CUNY/ACT Writing and Reading tests; ITL 120

### **MTH 015 Elementary Algebra with Proficiency Exam Review**

6 hours; 0 credits

Selected topics from elementary algebra including factoring, operations on polynomials, solving and graphing linear equations, and applications to word problems. Additional topics found on the CUNY math proficiency exam.

Prerequisite: An appropriate score on the CUNY Mathematics Assessment Test or permission of the Department of Mathematics

### **PHY/ENS 463 Introduction to Nanotechnology**

2 hours lecture; 4 hours laboratory; 4 credits

This is an introductory course on nanotechnology. It covers the physical basics of submicron- and nano-size structures, methods and materials of nanotechnology, characterization of nanostructures, and their industrial applications. The course covers (i) mechanical, electronic, and optical properties of nanoscopic systems; (ii) engineering approaches in nano-electro-mechanics, nanoelectronics, and nanophotonics; (iii) practical computer simulation and design of nanodevices; and (iv) practical nanofabrication of rudimentary nanodevices with focused ion beams.

Prerequisite: ENS/PHY 385

### **PSY 343 Infancy**

4 hours; 4 credits

This course is concerned with how infants come to understand the world around them. Students will learn classic and current theoretical perspectives on infant development as well as methodologies and results from recent empirical papers. We will discuss which sort of evidence would provide a meaningful answer to the question of how learning occurs. Topics to be discussed include prenatal development, physical and motor development, and cognitive, perceptual, language, and emotional development.

Prerequisite: PSY 242

### **PSY 345 Motor Development**

4 hours; 4 credits

A central goal for this class is to understand the psychological aspects of motor development. Over their first two years of life, babies' bodies, skills, and environments change rapidly and dramatically. How do infants learn to cope with a changeable body in a variable world? In this class, we will discuss infant motor development in the context of traditionally separate domains of psychology—perceptual, cognitive, and social development.

Prerequisite: PSY 242

### **PSY 385 Psychology of Memory**

4 hours; 4 credits

This course will bring together two major cognitive psychology approaches to studying memory, theoretical and applied. The theoretical topics will cover the history of research on memory; classical laboratory research on short-term, working, and long-term memory; and memory impairments. The applied topics will include memory in everyday life, memory and the law, and memory improvement.

Prerequisite: PSY 288 or PSY 232

## **CHANGES TO COURSES (CHANGES ARE IN BOLD TYPE)**

ACC 215 Intermediate Accounting I

**Prerequisites: BUS 150 or BUS 250 or CSC 102 and ACC 121**

ACC 250 Accounting Information Systems

**Prerequisites: ACC 121 and one of the following: BUS 150, BUS 250, CSC 102, or CSC 108/116/118**

ACC 422 Standards and Procedures of Financial Audits

**Prerequisites: ACC 225, MGT/ECO 230, and BUS 150 or BUS 250 or CSC 102**

BIO 105 Molecular Foundations of Cell Function

Prerequisites: BIO 102, **or BIO 106 and BIO 107**, with a minimum grade of C or a satisfactory score on the Biology Placement Test.

BIO 150 Human Anatomy and Physiology I

Prerequisites: BIO 102, **or BIO 106 and BIO 107**, with a minimum grade of C or a satisfactory score on the Biology Placement Test.

CIN 100 Introduction to Film

**An introduction to the terms and methods of film analysis. The course emphasizes critical viewing and writing, with attention to cinematography, editing, sound, narrative, authorship, genre, and ideology. (arts & com.)**

CIN 111 Video I

CIN 211 Cinematography

A basic workshop in cinematography. **Visual** exercises will focus on techniques of composition, lighting, and camera movement.

CIN 220 Film History

Prerequisites: CIN 100 **and** ENG 111

CIN 230/AMS 230 American Film and American Myth

**An interdisciplinary consideration of American filmmaking practices in relation to national mythmaking. Topics include: American film genre (the Western, film noir, the musical, and other dominant narrative models); gender, race, and class identities in film; cinematic aesthetics and nationalism; and cinematic treatments of international cultural and political relations involving the United States. (arts & com.)**

Prerequisites: ENG 111 **and** COR 100

CIN 240 Third Cinema

A survey of cinema from and about the Third World that emphasizes the effort to construct identity within a post-colonial multinational context. Considered and analyzed will be films from Africa, Latin America, the Middle East, and Asia, **as well as films of the diaspora made by emigres.** (P&D)

CIN 301 **Screen Adaptations**

**A study of the theory and practice of adapting literary fictions into narrative films and dramatic television programs.**

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CIN 303 Screen Comedy

**An examination of screen comedy. The course will consider comedy as a form of performance and as a mode of film practice, with attention to techniques that create laughter. Readings include critical and theoretical works on the nature of comedy and the role of the comic performer in generating meaning.**

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CIN 304 Nonfiction Film and Television

**A critical and historical examination of nonfiction film and television practices including documentary, newsreels, television news, and “reality TV.” This course analyzes the cultural, social, and ideological impact of film and television production as it has developed since cinema’s origins.**

Prerequisites: CIN 100 and **ENG 151**

CIN 311 Video Workshop

Students will use advanced video equipment in the production of **independent projects**. Emphasis is placed on the ability of students to work in production crews. This course may be repeated for credit.

Prerequisite: **CIN 211**

CIN 401 American Directors I

**Study of film authorship in relation to one or more directors who worked in the American film industry before 1960.** (arts & com.)

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CIN 402 American Directors II

**Study of film authorship in relation to one or more directors who produced films in the United States after 1960.** (arts & com.)

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CIN 404 French Directors I

**Study of film authorship in relation to one or more directors who produced films in France before 1960.** (arts & com.)

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CIN 405 French Directors II

**Study of film authorship in relation to one or more directors who produced films in France after 1960, including those who are categorized as part of the “New Wave.”** (arts & com.)

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CIN 407 **European Cinema**

Specialized study of **European cinema, with attention to films or filmmakers of one or more of the countries of Europe.** (arts & com.)

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CIN 408 **Global Cinema**

Specialized study of **films produced outside of Europe and the United States.** (arts & com.)

Prerequisites: **ENG 151 and CIN 210 or CIN 220**

CHN 101 **Conversational Mandarin Chinese I**

2 hours; 2 credits

**This course is for those students interested in learning how to speak Mandarin Chinese to meet their educational and personal goals, or to address special needs in learning Mandarin. The course will focus on training the students’ oral communicational skills through selected real-life situations and topics. The course will also introduce the phonetic system of Pinyin, some conversational skills, and sen-**

**tence patterns. Cantonese or other dialect speakers can also use the course to practice the official Mandarin pronunciation and oral language. This course does not fulfill the general education requirement.**

**Prerequisite: Permission of the Department of Modern Languages.**

#### **CHN 102 Conversational Mandarin Chinese II**

2 hours; 2 credits

**This course is for those students who have completed CHN 101 or have been placed into this level by the Department of Modern Languages, and who are interested in continuing their studies of spoken Mandarin Chinese. The course will focus on training the students' oral communicational skills through selected real-life situations and topics. The course will continue to review the phonetic system of Pinyin, and teach additional conversational skills and sentence patterns. Cantonese or other dialect speakers can also use the course to practice the official Mandarin pronunciation and oral language. After completing this sequence, students may wish to take additional courses that focus on reading and writing. This course does not fulfill the general education requirement.**

**Prerequisite: CHN 101 or by permission of the Department of Modern Languages**

#### **CHN 113 Basic Mandarin Chinese I**

4 hours; 4 credits

**A beginning course in the fundamentals of Mandarin Chinese. The course will teach Pinyin, the standard pronunciation system, daily life vocabulary, and basic sentence structures through real-life situations. The course will focus on developing basic skills and proficiency in listening, speaking, reading, and writing Mandarin Chinese, using a computer-assisted approach.**

**Prerequisites: Passing the CUNY/ACT Writing and Reading tests and permission of the Department of Modern Languages**

#### **CHN 114 Basic Mandarin II**

4 hours; 4 credits

**This is the second semester of the beginning Chinese course. The course will review the Pinyin pronunciation system, build up daily life vocabulary, and teach basic sentence structures through real-life situations. The course will continue to focus on developing basic skills and proficiency in listening, speaking, reading, and writing Mandarin Chinese, using a computer-assisted approach.**

**Prerequisites: CHN 113 or placement, and permission of the Department of Modern Languages. Passing the CUNY/ACT Writing and Reading tests.**

#### **CHN 213 Continuing Mandarin Chinese I**

4 hours; 4 credits

**This course is for those students who have successfully completed the second**

semester of Basic Mandarin Chinese or who have been placed into this intermediate level. Using computer-assisted technology, the course will further develop skills and proficiency in listening, speaking, reading, and writing in Mandarin Chinese. Greater emphasis will be placed on transitioning from spoken to written language. This course fulfills the general education requirement.

**Prerequisites:** CHN 114 or placement, and by permission of the Department of Modern Languages. Passing the CUNY/ACT Writing and Reading tests.

CSC 228/MTH 228 Discrete Mathematical Structures for Computer Science

Prerequisites: **CSC 211**; MTH 123 or MTH 130 or MTH 230 or MTH 231 or MTH 235

CSC 326 Information Structures

Prerequisites: **CSC 211** or ENS 336; a knowledge of C programming language

CSC 346 Switching and Automata Theory

Prerequisite: **CSC 220**

CSC 382 Analysis of Algorithms

Prerequisites: **CSC 326 and CSC/MTH 228**

Pre- or corequisite: **MTH 311**

DRA 100 Introduction to Theater

4 hours; 4 credits

**Introduction to theater as an art form, which brings together performance, text, directing, and design as well as aspects of the culture in which it is created. Students can expect to engage in theater exercises to learn about performance, read plays, do small design projects, and see at least one professional theater production. There may be a modest expense for tickets.**

DRA 110 Acting I

4 hours; 4 credits

**An introductory class in acting built on exercises, which may include those that develop the physicality, discipline, dramatic imagination, connection to character, and improvisatory skills of the actor. Students may also study beats and units of action, character development, and scene study.**

DRA 140 Theater Studies

DRA 202 African American Drama

(Also AFA 202)

4 hours; 4 credits

**A study of the emergence of Black theater in the United States, including the Harlem Renaissance, the radical theater of the 1960s and 1970s, and the work of contemporary Black playwrights and directors.**

DRA 210 Acting II

4 hours; 4 credits

**This class will develop and deepen work begun in Acting I. At the instructor's discretion, students may be introduced to various acting and performance methods. Students will have the opportunity to perform before an audience.**

Prerequisite: DRA 110

**DRA 221** Topics on Production

4 hours; 4 credits

A study of the interdisciplinary issues that intersect with the play currently being directed by a member of the theater faculty. Students may also study alternative or updated versions of the play, and experiment with related performance genres. Plays will be chosen specifically for the richness of their historical and cultural scope. The instructor for this course and the director of the play, if they are not the same person, will work together on materials for this course. **All students taking this course will be involved in some way in the production itself: as actors, assistant designers, carpenters, lighting technicians, or technical crew.**

Prerequisite: **DRA 140**

DRA 272 Performance Histories (**Ancient to Early Modern**)

Prerequisite: DRA **140**

ENS 336 Computer-Aided Engineering

**2 hours lecture, 4 hours laboratory; 4 credits**

Application of numerical analysis and computer simulation to the solution of engineering design problems. Topics include optimization and error analysis, solution of nonlinear equations, systems of algebraic equations, data analysis, regression and interpolation, numerical differentiation and integration, solution of ordinary and partial differential equations, finite difference and finite element methods. **Introduction to programming for parallel processing on a multi-node machine.** Theory will be implemented with several projects emphasizing design applications.

Prerequisite: CSC 126

FNC 240/ECO 240 Managerial Finance I

Prerequisite: **ECO 101**

Pre- or corequisites: **ACC 121 and MTH 121 or higher**

**FNC 300 International Finance/ECO 370 International Finance**

FNC 360/ ECO 360 Investment Analysis

Prerequisites: **FNC/ECO 345 and FNC/ECO 213 or FNC/ECO 214**

**HON 121** The Arts in New York City

**HON 122** The Peopling of New York City

**HON 224** Shaping the Future of New York City

**HON 206** The Non-Western Experience: Social Sciences (**Contemporary World and P&D**)

MGT 410 Business Policy

Prerequisites: Completion of the business core requirements **BUS 150 or BUS 250 or CSC 102**, and junior or senior standing, or permission of the instructor.

MGT 416 Decision Making in Business

Prerequisite: Completion of the business core requirements **BUS 150 or BUS 250 or CSC 102**

MGT 425 International Management

4 hours; 4 credits

**An examination of international management in relation to the international environment, cultural differences, and effective management strategies across cultures. Major areas of analysis including current worldwide developments, multiculturalism in organizations, managing a multicultural workforce, the role of culture and communication in international management, comparative country and culture analysis, international and multidomestic strategic management practices, and cross-cultural ethical dilemmas.**

Prerequisites: **MGT 110 and (BUS 200 or ECO 250 or ECO 370/FNC 300 and any Contemporary World course)**

MKT 360 Internet Marketing

4 hours; 4 credits

This course is an introduction to the use of the Internet and electronic commerce as a marketing tool. A major team project will require students to develop a marketing plan along with a Website for a new or existing product or service. Data collection as well as legal and ethical issues, including security, surrounding commerce in a Web-mediated environment will be discussed.

Prerequisites: MKT 111, **BUS 150 or BUS 250 or CSC 102**.

MTH/SLS 218 Fundamentals of Mathematics II

**A study of mathematical concepts, designed primarily for students planning to teach at the elementary or early-child level, with an emphasis on mathematical reasoning, problem solving, representation, and communication. Builds on and complements MTH/SLS 217. Topics include geometry, measurement, data representation and analysis, and probability.**

Prerequisites: A minimum GPA of 2.75, **MTH/SLS 217 with a grade of C or higher.**

MUS 243 Musicianship I

Corequisites: MUS 225 **and MUS 223**

MUS 244 Musicianship II

Prerequisites: MUS 225, MUS 243, **and MUS 223**

Co-prerequisites: MUS 226 **and MUS 224**

MUS 323 Keyboard Musicianship III

Corequisite: **MUS 363**

MUS 325 Keyboard Musicianship IV

Co-prerequisite: **MUS 364**

MUS 424 Score Analysis

Prerequisites: **ENG 151; MUS 211 or MUS 212; MUS 322 and MUS 363 and MUS 323**

Corequisites: **MUS 364 and MUS 325**

NRS 410 Community Health Nursing

**3 Class hours, 6 Laboratory hours; 6 credits**

Nursing and public health theories and research are integrated to provide students with knowledge and competencies for holistic nursing care of individuals, families, and communities **from culturally diverse backgrounds**. Theories and research related to health promotion, health protection, and disease and illness management are applied. **Nursing care of “at-risk” populations is emphasized**. Skills in mutual collaboration with consumers and interdisciplinary teams are developed.

NRS 421 Nursing in Critical Illness

**3 hours; 3 credits**

This course focuses on the roles of professional nurses in the specialty of critical care nursing. **It explores advances in nursing in a rapidly changing health care system, where critically ill patients are in a variety of settings. Emphasis is on nursing research and evidence-based practice, as well as technological developments.**

Prerequisite: **NRS 320**

PHL 243 Comparative Religion

A study of the great religious systems (e.g., Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Christianity, and Islam.) **Challenges to the life of contemporary religions, demographic patterns, ethical stands, the role of women, ecological concern, and interfaith conflict and cooperation will be explored (Contemporary World and P&D)**

Prerequisites: 100-level course in philosophy or sophomore standing; **ENG 151, COR 100**

PHO 220 **Intermediate Photography**

PHO 240 Photojournalism

**An in-depth study of the concepts of narrative, sequence, story, and series, and their journalistic and artistic applications. An examination of how other photographers have employed these conventions in their work will be explored. Students will develop a body of work based on what they have learned.**

PHY 160 General Physics II

**Pre- or corequisites:** MTH 232 or MTH 236, and PHY 161

SLS 218/ MTH 218 Fundamentals of Mathematics II

**A study of mathematical concepts, designed primarily for students planning to teach at the elementary or early-child level, with an emphasis on mathematical reasoning, problem solving, representation, and communication. Builds on and complements MTH/SLS 217. Topics include geometry, measurement, data representation and analysis, and probability.**

Prerequisites: A minimum GPA of 2.75, **MTH/SLS 217 with a grade of C or higher.**

SOC 240 Minority Groups

Prerequisites: **ENG 151**, COR 100

SOC 260 Class, Status, and Power

Prerequisites: **ENG 151**, COR 100

General Education: Contemporary World

SLS/SOC **325** Social Thought

(Cross-listed SOC/SLS **325**)

**Analysis of key trends in social theory from ancient times to the present. Includes the study of thought concerning the early organization of human society, the development of agricultural and feudal societies, the effects of industrialization and the modern age, and the already-significant impacts of the computer age and the Internet. The course is especially concerned with major social questions in science, philosophy, urbanism, and political economy. Emphasis on reading and discussing original sources.**

Prerequisites: A minimum GPA of 2.75, ENG 111, ENG 151, and a 200-level Social Scientific Analysis Course

## **CHANGES IN DEGREE REQUIREMENT (CHANGES SHOWN IN BOLD TYPE)**

### **BA IN AMERICAN STUDIES**

#### **Honors**

**Graduating American Studies (AMS) majors may apply for graduation with Honors in AMS. To graduate with Honors a student must have:**

- 1. Fulfilled the requirements for the AMS major**
- 2. Earned a 3.5 grade point average or better in AMS courses**
- 3. Been recommended for Honors by the AMS Honors committee. To be recommended a student must have submitted a proposal for an Honors thesis and have completed this thesis to the satisfaction of the Honors committee.**

The Honors thesis should be a substantial research paper supervised by a committee of two AMS faculty members. One member of this committee will be the primary supervisor with whom the student will register for up to eight credits of independent study. Candidates should ask an AMS faculty member of their choosing to be their primary supervisor. The primary supervisor and the program coordinator will appoint the other member of the candidate's committee in consultation with the candidate. The thesis submitted need not be a new work; it can be an extension of a paper previously submitted in a course. Theses submitted to the Honors committee chair must have the signature of both members of the candidate's committee on the title page.

Students planning to apply for graduation with Honors must submit a one-page proposal for their Honors thesis, signed by the members of their committee, to the AMS Honors committee in the final semester of their junior year. Honors theses for majors graduating in January must be submitted to the AMS coordinator by November 20 for majors graduating in June or by April 1 for majors graduating in August.

**BS IN ACCOUNTING**

**Pre-Major Requirements (35-38 credits)**

|                |  |                  |
|----------------|--|------------------|
| MGT 110        | Organizational Theory and Management               | 3 credits        |
| MKT 111        | Marketing  | 3 credits        |
| FNC/ECO 240    | Managerial Finance                                 | 3 credits        |
| ECO 210        | Price Theory                                       | 4 credits        |
| ECO 212        | Income and Employment Theory                       | 4 credits        |
| ACC 114        | Introduction to Accounting I                       | 4 credits        |
| ACC 121        | Introduction to Accounting II                      | 4 credits        |
| <b>BUS 150</b> | <b>Essential Software Tools for Business</b>       | <b>3 credits</b> |
| <b>or</b>      |  |                  |
| <b>CSC 102</b> | <b>Computing for Today</b>                         | <b>4 credits</b> |
| <b>or</b>      |  |                  |
| <b>BUS 250</b> | <b>Computers in Information Processing</b>         | <b>3 credits</b> |
| MGT/ECO 230    | Introduction to Economic and Managerial Statistics | 4 credits        |

Certified Public Accountancy  
 Accounting majors who wish to apply for admission to the State examination for public accountancy must complete all courses specified under the accounting concentration and must include the following among the 16 credits of related subjects:

|         |  |           |
|---------|--|-----------|
| ACC 414 | Advanced Accounting                          | 4 credits |
| ACC 422 | Standards and Procedures of Financial Audits | 4 credits |

**And an additional 30 credits at the graduate level.**

## BS IN BUSINESS

### Pre-Major Requirements (35-38 credits)

|                |  |                  |
|----------------|--|------------------|
| MGT 110        | Organizational Theory and Management               | 3 credits        |
| MKT 111        | Marketing  | 3 credits        |
| FNC/ECO 240    | Managerial Finance                                 | 3 credits        |
| ECO 210        | Price Theory                                       | 4 credits        |
| ECO 212        | Income and Employment Theory                       | 4 credits        |
| ACC 114        | Introduction to Accounting I                       | 4 credits        |
| ACC 121        | Introduction to Accounting II                      | 4 credits        |
| <b>BUS 150</b> | <b>Essential Software Tools for Business</b>       | <b>3 credits</b> |
| or             |  |                  |
| <b>CSC 102</b> | <b>Computing for Today</b>                         | <b>4 credits</b> |
| or             |  |                  |
| <b>BUS 250</b> | <b>Computers in Information Processing</b>         | <b>3 credits</b> |
| MGT/ECO 230    | Introduction to Economic and Managerial Statistics | 4 credits        |

## BS IN BIOLOGY

Department of Biology degree requirements for the BS in Biology for all options (I—Biology; II—Adolescence Education, grades 7-12; III—Bioinformatics): to qualify for graduation, students must have at least a 2.5 grade point average (GPA) in the courses that make up the Biology major.

## BS IN BIOINFORMATICS

### Option III—Biology/Bioinformatics

General education requirements: same as for Option I as shown above.

### Pre-Major Requirements: 20-23 credits

- A. All four of the following courses:
- |         |                               |           |
|---------|-------------------------------|-----------|
| BIO 170 | General Biology I             | 3 credits |
| BIO 171 | General Biology I Laboratory  | 1 credit  |
| BIO 180 | General Biology II            | 3 credits |
| BIO 181 | General Biology II Laboratory | 1 credit  |
- B. One of the following three units:
- |         |                                    |           |
|---------|------------------------------------|-----------|
| MTH 230 | Calculus I with Pre-Calculus       | 6 credits |
| MTH 229 | Calculus Computer Laboratory       | 1 credit  |
| or      |                                    |           |
| MTH 231 | Analytical Geometry and Calculus I | 3 credits |
| MTH 229 | Calculus Computer Laboratory       | 1 credit  |
| or      |                                    |           |
| MTH 235 | Accelerated Calculus I             | 5 credits |

|    |         |                                  |           |
|----|---------|----------------------------------|-----------|
|    | MTH 229 | Calculus Computer Laboratory     | 1 credit  |
| C. | BIO 272 | Biometrics                       | 4 credits |
| D. | CSC 126 | Introduction to Computer Science | 4 credits |

**Major Requirements: 81-82 credits**

A minimum grade of C is required for a biology course to be used to satisfy a prerequisite for a biology course required for the major requirements for the BS in Biology/Bioinformatics.

A. Required Courses

|  |         |                    |           |
|--|---------|--------------------|-----------|
|  | BIO 205 | General Physiology | 4 credits |
|  | BIO 312 | Genetics           | 4 credits |
|  | BIO 322 | Evolution          | 4 credits |
|  | BIO 352 | Cell Biology       | 4 credits |
|  | or      |                    |           |
|  | BIO 360 | Ecology            | 4 credits |

B. All of the following courses:

|  |             |                                |            |
|--|-------------|--------------------------------|------------|
|  | BIO 326     | Introduction to Bioinformatics | 3 credits  |
|  | BIO 327     | Molecular Biology              | 4 credits  |
|  | BIO/CHM 370 | Biochemistry I                 | 4 credits  |
|  | BIO/CHM 376 | Biochemistry II                | 14 credits |
|  | MTH/BIO 415 | Mathematical Biology           | 4 credits  |

C. One advanced six-hour laboratory course from the following: 3 credits

|  |         |  |
|--|---------|--|
|  | BIO 450 | Experimental Methods in Animal Physiology  |
|  | BIO 452 | Experimental Methods in Behavioral Biology |
|  | BIO 454 | Advanced Methods in Cell Biology           |
|  | BIO 456 | Experimental Methods in Ecology            |
|  | BIO 458 | Experimental Methods in Cell Biochemistry  |
|  | BIO 460 | Experimental Methods in Advanced Genetics  |

D. One elective from the following: 3-4 credits

Courses not selected in groups A or C and these additional courses:

|  |                 |                                       |
|--|-----------------|---------------------------------------|
|  | BIO 213         | Comparative Vertebrate Anatomy        |
|  | BIO 215         | Invertebrate Zoology and Paleontology |
|  | BIO 228         | Botany                                |
|  | BIO 240         | Biology of Disease                    |
|  | BIO 314         | General Microbiology                  |
|  | BIO 318         | Histology                             |
|  | BIO 324         | Developmental Biology                 |
|  | BIO 325/MDT 325 | Diagnostic Molecular Biology          |
|  | BIO 332         | Advanced Physiology                   |
|  | BIO 338         | Behavioral Biology                    |
|  | BIO 365         | Principles of Neurobiology            |
|  | BIO 372         | Cell Biochemistry                     |

BIO 428 Plant Physiology

BIO 442 Immunology

E. Required related science courses:

**CSC 211 Intermediate Programming 4 credits**

CSC 228 Discrete Mathematical Structures 4 credits

CSC 326 Information Structures 4 credits

CSC 424 Database Management 4 credits

PHY 116 Physics I

PHY 156 Physics II

or (with appropriate mathematics background)

PHY 120 General Physics I

PHY 121 General Physics I Laboratory

PHY 160 General Physics II

PHY 161 General Physics II Laboratory 8 credits

CHM 141 General Chemistry I 3 credits

CHM 121 General Chemistry I Lab 1 credit

CHM 142 General Chemistry II 3 credits

CHM 127 General Chemistry II Lab 1 credit

CHM 250 Organic Chemistry I 4 credits

CHM 256 Organic Chemistry II 4 credits

**Electives: 0-5 credits**

**Total Credits Required: 128**

## **AAS IN COMPUTER SCIENCE**

### **Computer Technology (AAS)**

The College offers a Computer Technology program that focuses on general applications programming. Students seeking a Bachelor's degree in Computer Science should consult the requirements for the BS in Computer Science or the BS in Computer Science/Mathematics.

### **General Education Requirements**

**ENG 111, ENG 151, COR 100, PED 190: 12 credits**

Whenever possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis: 15 credits**

1. Scientific Analysis

A one-year, eight-credit sequence of laboratory science (8 credits)

2. At least one course from two of the following groups:

Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis (7 credits)

See section on general education requirements for approved course lists and complete details.

**Pre-Core Requirement: 4 credits**

CSC 126 Introduction to Computer Science 4 credits

A grade of C or above in CSC 126 is required for continuation in the program. Students will be allowed to repeat the course, if necessary.

**Programming Sequence**

**Core Requirements: 29 credits**

|                |                                  |  |
|----------------|----------------------------------|--|
| CSC 210        | Applications Programming<br>or   |  |
| CSC 332        | Operating Systems I              | 4 credits (to be chosen in consultation with an advisor) |
| <b>CSC 211</b> | <b>Intermediate Programming</b>  | <b>4 credits</b>   |
| CSC 220        | Computers and Programming        | 4 credits  |
| CSC/MTH 228    | Discrete Mathematical Structures | 4 credits  |
| CSC 326        | Information Structures           | 4 credits  |
| CSC 330        | Object-Oriented Software Design  | 4 credits  |
| MTH 229        | Calculus Computer Laboratory     | 1 credit   |
| MTH 231        | Analytic Geometry and Calculus I | 4 credits  |

**Information Science**

**Core Requirements: 26 credits**

|                |                                      |                  |
|----------------|--------------------------------------|------------------|
| <b>MKT 111</b> | <b>Marketing</b>                     | <b>3 credits</b> |
| MGT 110        | Organizational Theory and Management | 3 credits        |
| CSC 210        | Applications Programming             | 4 credits        |
| <b>CSC 211</b> | <b>Intermediate Programming</b>      | <b>4 credits</b> |
| CSC 326        | Information Structures               | 4 credits        |
| <b>CSC 334</b> | <b>Computer System Fundamentals</b>  | <b>4 credits</b> |
| MTH 229        | Calculus Computer Laboratory         | 1 credit         |
| MTH 231        | Analytic Geometry and Calculus I     | 3 credits        |

Electives: 3 credits

**Total Credits Required: 60**

**BS IN COMPUTER SCIENCE**

The Computer Science program offers a full four-year curriculum in computer science that prepares students for careers as computer professionals and/or for graduate study. The major provides a broad-based background in computer science and includes courses in computer software, systems, mathematics, and computer engineering. A student, under the guidance of a computer science adviser, may also select additional courses to pursue particular interests. Students interested in transferring into the program from the two-year Computer Technology program should consult the department chairperson. The program in Computer Science is accredited by the Computer Science Accreditation

Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Council for Higher Education Accreditation (CHEA).

**General Education Requirements for the BS: 41 credits**

**ENG 111, ENG 151, COR 100, PED 190: 12 credits**

Whenever possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 29 credits**

Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)

a. Science and Technology: (8 credits)

A one-year science sequence chosen from the list of courses below:

AST 120      Space Science I

AST 160      Space Science II

BIO 170/171    General Biology I/Laboratory

BIO 180/181    General Biology II/Laboratory

CHM 141/121    General Chemistry I/Laboratory

CHM 142/127    General Chemistry II/Laboratory

PHY 120/121    General Physics I/Laboratory

PHY 160/161    General Physics II/Laboratory

b. Mathematics: (3 credits)\*

\*Fulfilled in the pre-major requirements

2. Social Scientific Analysis: (3-4 credits)

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)

a. Literature: 200-level

b. Arts and Communications: 100-level

c. Arts and Communications: 200-level

5. Pluralism and Diversity Requirement: (0-4 credits)

6. Plus an additional 2-8 credits in the general education requirements to complete a total of 30 credits that are not scientific analysis courses.

See section on general education requirements for approved course lists and complete details.

**Pre-Computer Science Sequence: 4 credits**

CSC 126 Introduction to Computer Science

4 credits

A grade of C or above in CSC 126 is required for admission to the Computer Science Baccalaureate program. Students will be allowed to repeat the course, if necessary.

**Pre-Major Requirements: 22-25 credits**

MTH 229      Calculus Computer Laboratory

MTH 230      Calculus I with Pre-Calculus

MTH 232      Analytic Geometry and Calculus II

MTH 233      Analytic Geometry and Calculus III

or

|         |                                   |
|---------|-----------------------------------|
| MTH 229 | Calculus Computer Laboratory      |
| MTH 231 | Analytic Geometry and Calculus I  |
| MTH 232 | Analytic Geometry and Calculus II |
| MTH 233 | Analytic Geometry and Calculus II |

or

|         |   |
|---------|---|
| MTH 229 | Calculus Computer Laboratory            |
| MTH 235 | Accelerated Calculus I                  |
| MTH 236 | Accelerated Calculus II (10-13 credits) |
| CSC 220 | Computers and Programming (4 credits)   |

### **CSC 211 Intermediate Programming (4 credits)**

Four additional credits of science courses chosen from the Scientific Analysis category list of courses that provide the foundation for further study in the sciences or chosen from courses with these Scientific Analysis courses as prerequisites. (4 credits)

### **Major Requirements: 56 credits**

Students majoring in Computer Science must complete:

| <b>CSC/MTH 228</b> | <b>Discrete Mathematical Structures</b>                           | <b>4 credits</b> |
|--------------------|---|------------------|
| CSC 326            | Information Structures  | 4 credits        |
| CSC 330            | Object-Oriented Software Design                                   | 4 credits        |
| CSC 332            | Operating Systems I   | 4 credits        |
| CSC/ENS 346        | Switching and Automata Theory                                     | 4 credits        |
| CSC 347            | Computer Circuits Laboratory                                      | 2 credits        |
| CSC 382            | Analysis of Algorithms  | 4 credits        |
| CSC 430            | Software Engineering  | 4 credits        |
| CSC 446            | Computer Architecture   | 4 credits        |
| CSC 490            | Seminar in Computer Science                                       | 2 credits        |
| MTH 311            | Probability Theory and an Introduction to Mathematical Statistics | 4 credits        |
| MTH 338            | Linear Algebra  | 4 credits        |

Three courses chosen from the following, at least two of which must be a Computer Science course:

|             |   |           |
|-------------|---|-----------|
| CSC 420     | Concepts of Programming Languages         | 4 credits |
| CSC 421     | Internet Data Communications and Security | 4 credits |
| CSC 424     | Database Management Systems               | 4 credits |
| CSC 432     | Operating Systems II                      | 4 credits |
| CSC 434     | Compiler Construction                     | 4 credits |
| CSC 435     | Advanced Data Communications              | 4 credits |
| CSC/ENS 462 | Microprocessors                           | 4 credits |
| CSC 470     | Introductory Computer Graphics            | 4 credits |
| CSC 480     | Artificial Intelligence                   | 4 credits |
| CSC 482     | Discrete Simulation                       | 4 credits |

|             |  |           |
|-------------|--|-----------|
| CSC 484     | Theory of Computation                  | 4 credits |
| CSC/MTH 335 | Numerical Analysis                     | 4 credits |
| MTH 337     | Applied Combinatorics and Graph Theory | 4 credits |
| MTH 339     | Applied Algebra                        | 4 credits |
| MTH 350     | Mathematical Logic                     | 4 credits |
| MTH 370     | Operations Research                    | 4 credits |
| MTH 410     | Statistics                             | 4 credits |

A grade of C or above in all CS courses that are prerequisites for courses in the Major Requirements. Students will be allowed to repeat courses, if necessary.

**Electives: 0-4 credits**

**Total Credits Required: 124**

**Computer Science**

**Minor**

Prerequisites or corequisites: MTH 123 and

|         |                                  |           |
|---------|----------------------------------|-----------|
| CSC 126 | Introduction to Computer Science | 4 credits |
| CSC 220 | Computers and Programming        | 4 credits |

**CSC 211 Intermediate Programming 4 credits**

**Requirements:**

Computer Science minor requirements can be met by completion of any one of the following sequences:

- Computer Science minor sequence for students with an interest in computer engineering:
 

|   |  |                  |
|---|--|------------------|
| <b>CSC/MTH 228 Discrete Mathematical Structures</b> |  | <b>4 credits</b> |
| CSC 326   | Information Structures                         | 4 credits        |
|   | and two course chosen from the following list: | 8 credits        |
| CSC 332   | Operating Systems I                            | 4 credits        |
| CSC 435   | Advanced Data Communications                   | 4 credits        |
| CSC 446   | Computer Architecture                          | 4 credits        |
- Computer Science minor sequence for students with an interest in applications programming:
 

|         |  |           |
|---------|--|-----------|
| CSC 326 | Information Structures                         | 4 credits |
| CSC 330 | Object-Oriented Software Design                | 4 credits |
| CSC 424 | Database Management Systems                    | 4 credits |
|         | and one course chosen from the following list: | 4 credits |
| CSC 332 | Operating Systems I                            |           |
| CSC 420 | Concepts of Programming Languages              |           |
| CSC 430 | Software Engineering                           |           |
| CSC 435 | Advanced Data Communications                   |           |
| CSC 470 | Introductory Computer Graphics                 |           |
| CSC 480 | Artificial Intelligence                        |           |

## BS IN COMPUTER SCIENCE-MATHEMATICS

The Departments of Computer Science and Mathematics offer a joint BS degree program in Computer Science and Mathematics that provides a balance between these two disciplines with an emphasis on their applied aspects and their relationship to each other.

### General Education Requirements for the BS

#### ENG 111, ENG 151, COR 100, PED 190: 12 credits

Whenever possible, these four courses should be completed within the first 36 credits.

#### Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits

General education requirements are the same as for other BS degrees.

#### Pre-Computer Science Sequence: 4 credits

CSC 126 Introduction to Computer Science

A grade of C or above in CSC 126 will be required for admission to the Computer Science-Mathematics Baccalaureate program. Students will be allowed to repeat the course, if necessary.

#### Pre-Major Requirements: 22-25 credits

Students planning to major in Computer Science-Mathematics should complete the following requirements prior to their junior year.

Calculus sequence chosen from the following: 10-13 credits

|         |                                    |
|---------|------------------------------------|
| MTH 230 | Calculus I with Pre-Calculus       |
| MTH 232 | Analytic Geometry and Calculus II  |
| MTH 233 | Analytic Geometry and Calculus III |
| MTH 229 | Calculus Computer Laboratory       |

or

|         |                                    |
|---------|------------------------------------|
| MTH 231 | Analytic Geometry and Calculus I   |
| MTH 232 | Analytic Geometry and Calculus II  |
| MTH 233 | Analytic Geometry and Calculus III |
| MTH 229 | Calculus Computer Laboratory       |

or

|                |                                 |                  |
|----------------|---------------------------------|------------------|
| MTH 235        | Accelerated Calculus I          |                  |
| MTH 236        | Accelerated Calculus II         |                  |
| MTH 229        | Calculus Computer Laboratory    |                  |
| CSC 220        | Computers and Programming       | 4 credits        |
| <b>CSC 211</b> | <b>Intermediate Programming</b> | <b>4 credits</b> |

#### Major Requirements: 52 credits

|                              |  |           |
|------------------------------|--|-----------|
| MTH/CSC 228                  | Discrete Mathematical Structures                 | 4 credits |
| Computer Science: 24 credits |  |           |
| CSC 326                      | Information Structures                           | 4 credits |
| CSC 330                      | Systems Programming: Concepts of Software Design | 4 credits |

|  |   |           |
|--|---|-----------|
| CSC 346  | Switching and Automata Theory                                     | 4 credits |
| CSC 382  | Analysis of Algorithms  | 4 credits |
| CSC 420  | Concepts of Programming Languages                                 | 4 credits |
| Any one from the following group of advanced computer courses: |   |           |
| CSC 424  | Database Management Systems                                       |           |
| CSC 480  | Artificial Intelligence   |           |
| CSC 482  | Discrete Simulation   | 4 credits |
| Mathematics: 24 credits  |   |           |
| MTH 311  | Probability Theory and an Introduction to Mathematical Statistics | 4 credits |
| MTH 335  | Numerical Analysis  | 4 credits |
| MTH 338  | Linear Algebra  | 4 credits |
| MTH 339  | Applied Algebra   | 4 credits |
| Any two of the following:                                      |   |           |
| MTH 330  | Applied Mathematical Analysis I                                   |           |
| MTH 337  | Applied Combinatorics and Graph Theory                            |           |
| MTH 341  | Advanced Calculus I   |           |
| MTH 350  | Mathematical Logic  |           |
| MTH 370  | Operations Research   |           |
| MTH 410  | Mathematical Statistics I   | 8 credits |

**Electives: 9 credits**

**Total Credits Required: 120**

## BS IN DRAMA

Department of Performing and Creative Arts

**Chair: Dr. Sylvia Kahan, The Center for the Arts (1P), Room 203**

Drama Program Coordinator: Dr. Maurya Wickstrom, The Center for the Arts (1P), Room 203

**This is a liberal arts Drama major. Students will acquire an interdisciplinary education while simultaneously developing competence in the history, literature, theory, and practice of theater, performance studies, and performance art. The program is especially designed to introduce students not only to traditional acting but to a broad range of performance practices and their many social and professional applications. These include the development of skills in collaboration, creativity, and self-presentation that are valuable in any profession. Students will have the opportunity to participate in faculty and student productions and, with faculty approval, to initiate their own performance/theater projects.**

**All courses will include both artistic and academic work. All courses require attendance at theater and performance events in Manhattan and Brooklyn. All prospective Drama majors should request an academic advisor from the drama faculty, and should expect to work with this advisor to maintain a record of academic excellence.**

**General education requirements—No Change**

**Pre-Major Requirement: 4 credits**

**DRA 110 Acting I 4 credits**

**Major Requirements: 44 Credits**

**DRA 140 Theater Studies 4 credits**

**DRA 141 Theater Production 3 credits**

**DRA 142 Theater Production Lab I 1 credit**

**DRA 221 Topics on Productions 4 credits**

**DRA 210 Acting II 4 credits**

**Two courses chosen from:**

**DRA 272 Performance Histories (Ancient to Early Modern) 4 credits**

**DRA 273 Performance Histories (1600-1900) 4 credits**

**DRA 274 Performance Histories (1901-Present) 4 credits**

**Three courses chosen from:**

**DRA 315 Theater and Education I 4 credits**

**DRA 375 New Performance 4 credits**

**DRA 350 Theater for Social Action 4 credits**

**DRA 352 Theater and Therapy 4 credits**

**DRA 373 The Theatrical Imagination 4 credits**

**DRA 380 Women in Performance 4 credits**

**One course chosen from:**

**DRA 217/217 Voice and Diction for Performance  
and Communication 4 credits**

**DRA 331 Design for the Theater 4 credits**

**DRA 321 Directing 4 credits**

**One course chosen from:**

**DRA/ENL 355 Modern European Drama 4 credits**

**DRA/ENL 361 The Early Shakespeare 4 credits**

**DRA/ENL 362 The Later Shakespeare 4 credits**

**Electives: 17-25 credits**

**Total Credits Required: 120**

**Honors**

To graduate with Honors in Dramatic Arts a student must have a 3.5 grade point average and must earn an A on a junior or senior project.

**Minor**

**Prerequisite Course: 4 credits**

**DRA 110 Acting**

### Minor Requirements: 15 credits

Courses may be chosen from DRA 140, 141, 142, 210; Topics on Production; Performance Histories (Ancient to Early Modern, 1600-1900, 1901-Present); New Performance; Theater for Social Action; Theater and Therapy; The Theatrical Imagination; Voice and Diction; Design, Directing; and one ENL course from list above.

Total Credits Required for the Minor: 19

## BA IN INTERNATIONAL STUDIES

### Honors

To graduate with Honors a student must have a minimum of a 3.5 grade point average in courses in the major and an Honors thesis must be completed under the supervision of the International Studies coordinator in consultation with the members of the International Studies Advisory committee.

## BS IN MATHEMATICS

General education requirements for BS

1. Scientific Analysis: (11 credits)
  - a. Science and Technology: (8 credits)

Two courses with laboratories chosen from one of the following sequences:

BIO 170-171, 180-181 General Biology I and II with laboratories

CHM 141-121, 142-127 General Chemistry I and II with laboratories

PHY 120-121, 160-161 General Physics I and II with laboratories

GEO 100-101, 102-103 Physical and Historical Geology with laboratories

**AST 100-101, 102-103 Contemporary Theories of the Solar System (with planetary laboratory) and of the Universe (with galactic laboratory)**

**AST 120-160 Space Science I and II with laboratories**

## BA IN MUSIC

Core courses: (35 credits)

MUS 322 Counterpoint

3 credits

**MUS 323 Keyboard Musicianship III**

**1 credit**

## AAS IN NURSING

Prerequisite Courses: 13 credits

BIO 150 Human Anatomy and Physiology I

ENG 111 Communications Workshop

|         |                        |
|---------|------------------------|
| PHL 130 | Introduction to Ethics |
| PSY 100 | Psychology             |

Admission to the Nursing program is competitive. Students must: (1) have a minimum of one semester's residency; (2) **Submission of SAT I and SAT II (BIO) OR the National League for Nursing (NLN) Pre-Admission Examination (PAX) – RN scores for evaluation;** (3) Successful completion of the prerequisite courses; (4) **Submit completed health and immunization record to the College Health Center by date designated in the admission materials.** When the pre-clinical courses have been completed, it is recommended that students register for other outstanding requirements such as MTH 108, Biology sequence, English, and/or PED 190. Students should consult with a Nursing advisor to assist with appropriate course selection.

Students must have a minimum cumulative average of 2.5 in the prerequisite courses with a minimum grade of C in Biology 150 to be considered for admission to the clinical phase of the Nursing program. The number of admissions is limited.

Students who have repeated any **of the prerequisite courses** may not be considered for admission to the Nursing program. The letter grades earned in prerequisite courses at other colleges are used in the calculation of the index in the prerequisite courses for transfer students.

Transfer students from other colleges must be in good academic standing. Students who are on academic probation, or who have been academically or administratively dismissed from a nursing program at a previous school(s), are not eligible for admission to Nursing at the College of Staten Island.

## BS IN NURSING

**Applicants to the BS degree program in Nursing must be graduates of a nursing program from an accredited degree-granting associate degree program, an accredited diploma-granting nursing school, or an associate degree program affiliated with an accredited diploma-granting nursing school that prepares students for licensure as Registered Professional Nurses.**

Applicants should have at least a 2.0 cumulative grade point average and at least a 2.0 in all nursing courses taken prior to application. Deadlines for application and supporting documentation are April 1 for the fall semester and November 1 for the spring semester. Applications for admission are available in the Office of Recruitment and Admissions.

Criteria for Progression to 400-level courses:

1. Current New York State Licensure as a Registered Professional Nurse.
2. Completion of the pre-major requirements, either by examination or completion of the appropriate courses. A maximum of 25 nursing credits are applied toward the BS in Nursing.

Major Requirements: 52 credits

|         |                                    |           |
|---------|------------------------------------|-----------|
| BIO 382 | Pharmacotherapeutics               | 3 credits |
| CHM 110 | Principles of Chemistry I          | 3 credits |
| CHM 111 | Principles of Chemistry Laboratory | 1 credit  |

|                |   |                  |
|----------------|---|------------------|
| CHM 116        | Principles of Chemistry II  | 3 credits        |
| CHM 117        | Principles of Chemistry II Laboratory                                 | 1 credit         |
| MTH 113        | Introduction to Probability and Statistics with Computer Applications | 3 credits        |
| PHY 114        | Introduction to Physics   | 4 credits        |
| NRS 303        | Seminar in Professional Development                                   | 3 credits        |
| NRS 310        | Interpersonal Dynamics for Professional Nurses                        | 3 credits        |
| NRS 320        | Health Assessment and Physical Examination                            | 3 credits        |
| NRS 321        | Introduction to Research In Nursing                                   | 3 credits        |
| <b>NRS 410</b> | <b>Community Health Nursing</b>                                       | <b>6 credits</b> |
| <b>NRS 411</b> | <b>Leadership in the Management</b>                                   | <b>6 credits</b> |
| NRS 423        | Issues in Health Care and Professional Nursing                        | 3 credits        |

### **Nursing electives: 6 credits**

Electives: 0-1 credits

Total Credits Required: 120

## **BS IN PHYSICS**

General education requirements for the BS: 12 credits

Whenever possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits**

Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)\*

    Science and Technology: (8 credits)

    Mathematics: (3 credits)

**\*Fulfilled in the pre-major requirements.**

2. Social Scientific Analysis: (3-4 credits)

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)

5. Pluralism and Diversity Requirement: (0-4 credits)

See section on general education requirements for approved course lists and complete details.

### **Pre-Major Requirements: 32 credits**

Students planning to major in physics must complete the following pre-major requirements. These courses may also be used to satisfy general education requirements.

|         |                               |           |
|---------|-------------------------------|-----------|
| PHY120  | General Physics I             | 3 credits |
| PHY 121 | General Physics I Laboratory  | 1 credit  |
| PHY 160 | General Physics II            | 3 credits |
| PHY 161 | General Physics II Laboratory | 1 credit  |
| PHY 240 | Waves and Modern Physics      | 3 credits |

|         |                                    |            |
|---------|------------------------------------|------------|
| PHY 250 | Engineering Mechanics              | 3 credits  |
| MTH 229 | Calculus Computer Laboratory       |            |
| MTH 230 | Calculus I with Pre-Calculus       |            |
| or      |                                    |            |
| MTH 229 | Calculus Computer Laboratory       |            |
| MTH 231 | Analytic Geometry and Calculus I   |            |
| MTH 232 | Analytic Geometry and Calculus II  |            |
| MTH 233 | Analytic Geometry and Calculus III |            |
| or      |                                    |            |
| MTH 229 | Calculus Computer Laboratory       |            |
| MTH 235 | Accelerated Calculus I             |            |
| MTH 236 | Accelerated Calculus II            | 10 credits |
| CHM 141 | General Chemistry I                | 3 credits  |
| CHM 121 | General Chemistry I Laboratory     | 1 credit   |
| CHM 142 | General Chemistry II               | 3 credits  |
| CHM 122 | General Chemistry II Laboratory    | 1 credit   |

**Major Requirements: 48**

|         |                                  |           |
|---------|----------------------------------|-----------|
| CSC 126 | Introduction to Computer Science | 4 credits |
| MTH 330 | Applied Mathematical Analysis I  | 4 credits |

**MTH 311 Probability Theory and an Introduction to Mathematical Statistics**

or

**MTH 331 Applied Mathematical Analysis II 4 credits**

|         |                                     |           |
|---------|-------------------------------------|-----------|
| PHY 310 | Thermodynamics                      | 4 credits |
| PHY 316 | Dynamics                            | 4 credits |
| PHY 356 | Theory of Electromagnetic Radiation | 4 credits |
| PHY 485 | Properties of Materials             | 4 credits |
| PHY 309 | Basic Measurements Laboratory       | 2 credits |
| PHY 315 | Advanced Physics Laboratory         | 2 credits |
| PHY 442 | Quantum Mechanics                   | 4 credits |

One advanced mathematics course at the 300 or 400 level 4 credits

Two advanced physics courses at the 300 or 400 level 8 credits

Either PHY 318 or PHY 381, but not both, may be used to satisfy this requirement.

**Electives: 12-18 credits**

**Total Credits Required: 120**

**BA IN PSYCHOLOGY**

**Pre-Major Requirements: 3 credits**

**PSY 100 Intro to Psychology**

**Major Requirements: 38 credits**

Psychology majors must complete:

A.

PSY 201 Foundtns of Psych Research 4 credits

PSY 266 Statistics in Psychology 4 credits

PSY 352 History and Systems of Psyc 4 credits

And **one** Psychology laboratory chosen from:

PSY 330 Experimental Psychology:  
Cognition and Perception 6 credits

or

PSY 333 Experimental Psychology:

Learning and Behavior 6 credits

or **PSY 334 Experimental Psychology:**

**Social and Personality 6 credits**

or

**PSY 335 Experimental Psychology: Developmental 6 credits**

**B. 20 additional credits in psychology at the 200-level or higher. These additional 20 credits must include at least four credits at the 300 or 400 level. Courses should be chosen in consultation with an advisor in accordance with student goals.**

**Electives: 39**

## **BA IN SCIENCE, LETTERS, AND SOCIETY (SLS):**

### **HONORS**

Graduating SLS majors may apply for graduation with Honors in SLS. To graduate with Honors a student must have:

1. Fulfilled the requirements for the SLS major
2. Earned a 3.5 grade point average or better in SLS courses
3. Completed an Honors thesis to the satisfaction of his or her Honors committee.

Submission of Honors project to SLS Honors committee is required. Successful Honors projects are characterized by originality, depth, and critical thinking; many Honors projects include research. Papers must be carefully proofread, and those including research must have accurate citations. Submissions must be typed in clear, letter-quality print and be free of comments by faculty members or others. The Honors thesis should be a substantial paper or write up of a significant research project supervised by a committee of three SLS and education faculty members: a primary supervisor, a reader, and a committee chair. This committee may be comprised entirely of SLS faculty, or may include an education faculty member as the primary supervisor or the reader. The SLS coordinator will serve as the chair of all committees or appoint chairs as appropriate. The Honors candidate may register for up to four credits of independent study with the primary supervisor, who will advise the candidate on a new project or on extending a project or paper previously submitted in a course. The SLS coordinator must approve all thesis proposals prior to the commencement of the project. Completed theses submitted to the Honors Committee chair must have the signatures of both members of the candidate's committee (the primary supervisor and the reader) on the title page.

**Time Frame:** Honors thesis proposals must be approved by the mid-term of the semester prior to the semester of graduation. Completed theses for majors graduating in January must be submitted to the SLS office by November 20. Completed theses for majors graduating in June or August must be submitted by April 1.

## NEW GRADING OPTION

Effective fall 2006, undergraduate matriculated students of the College of Staten Island have the option to elect a pass/fail grade with the following restrictions:

- Students may not elect the pass/fail option for any courses satisfying general education, pre-major, major, minor, or certification requirements.
- Academic departments may exclude additional courses and may prohibit pass/fail courses from being used as prerequisites for degree requirements.
- Courses taken on permit at other institutions and independent study courses may not be taken on a pass/fail basis.

- **Credit Maximum:**

The student may not elect more than eight credits (8) total as pass/fail.

The total number of P grades on a transcript may not exceed 90 credits. This includes all credits transferred from other institutions.

- **Grading and Grade Point Average:**

For courses taken as pass/fail, letter grades A through C are converted to P; letter grades of D and F are converted to F.

A pass P grade is not counted in the student's grade point average.

A fail F grade is counted in the student's grade point average.

- **Prerequisite Academic Standing:**

A student must be matriculated, with sophomore, junior, or senior standing.

Transfer students must have completed a minimum of 12 credits at the College of Staten Island.

To elect this option, the student must have a GPA greater than or equal to 2.25.

### **Deadlines:**

Students must elect the pass/fail option each semester by the "last day to withdraw from course(s) without a grade of W" as listed in the academic calendar for that semester.

Students may not elect the pass/fail option retroactively.

Once the election of pass/fail has been made, the student may no longer choose to receive a letter grade other than P/F for the course.

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