

# SCHOOL OF EDUCATION

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## School of Education Administration:

**Interim Dean of the School of Education:** Ruben Gonzalez

**Assistant Dean for Data Management and Assessment:** Linda Amerigo

**Director of Field Placement and Clinical Services:** Silvia Lanzer

**Childhood Education and Literacy Department:** Karlyn Wood, *Chair*,

**Exceptional Education and Learning Department:** Eileen McCarthy, *Chair*

**Adolescence Education Department:** Judith Lloyd, *Chair*

The mission of the School of Education is to prepare teacher candidates to be literate and progressive citizens who value human diversity and exemplify an appreciation for the interdisciplinary nature of knowledge and for learning as a lifelong process. The school seeks to develop teachers with the professional and personal characteristics and dispositions to facilitate the holistic development of all learners in the context of contemporary society.

Together with partners across the college and in the schools, faculty of the School of Education have developed a Conceptual Framework to implement the above mission and vision. The Conceptual Framework rests on three principles: a commitment to preparing teachers as professionals; a belief in the interdisciplinary nature of knowledge and practice; and an active engagement in promoting a just world. Teacher candidates explore these principles through course work and guided practice.

The School of Education comprises three departments: Childhood Education and Literacy, Exceptional Education and Learning and Adolescence Education. We offer programs leading to initial teacher certification in the following areas:

- Childhood Education – grades 1-6
- Childhood Education – grades 1-6 extended to Bilingual Education
- Special Education with Childhood Education – grades 1-6
- Special Education extended to Bilingual Education – grades 1-6
- Middle Childhood Education – grades 5-9 - in Biology or Chemistry or Mathematics or Spanish
- Adolescence Education – grades 7-12 - in Biology or Chemistry or Mathematics or Social Studies or Spanish

These programs provide professional courses and extensive field experience, including student teaching. Each course is planned to assist students in acquiring the knowledge and skills that will help them transmit the requisites of the New York State Learning Standards. All courses are designed so that students achieve competencies that have been identified by local school district personnel and prescribed by the New York State Education Department.

The School of Education has adopted a series of requirements for candidates at five transition points as they are admitted to and progress through the program. These requirements are summarized in the chart below. Further details about these requirements may be found in this catalog and in publications available from the School of Education.

TRANSITION POINT	SCHOOL OF EDUCATION REQUIREMENTS
#1 <b>Admission to School of Education</b>	<ul style="list-style-type: none"> <li>• GPA <math>\geq</math> 2.7</li> <li>• Completion of 48 credits</li> <li>• C- or better in MA1020 or equivalent</li> <li>• C- or better in EL1000 and EL22xx</li> <li>• Score of 83% on Focused Writing Sample<sup>1</sup></li> <li>• Formal application process</li> </ul>
#2 <b>Admission to Observation/Field Experience</b>	<ul style="list-style-type: none"> <li>• Overall GPA <math>\geq</math> 2.7</li> <li>• Major GPA <math>\geq</math> 2.7 (Adolescence Education)</li> <li>• Education course GPA <math>\geq</math> 2.7</li> <li>• Complete the following courses in TE with GPA <math>\geq</math> 2.7: <ul style="list-style-type: none"> <li>• Chemistry and Biology Adolescence and Middle Childhood Education: 3900, 4742</li> <li>• Childhood Education: 3700, 3820, 3900, 4200, 4740</li> <li>• Mathematics Adolescence and Middle Childhood Education: 3900, 4742</li> <li>• Social Studies Adolescence Education: 3 of the following: 3600/3650/4660, 3820, 3900, 4230, 4742</li> <li>• Spanish Adolescence and Middle Childhood Education: 3900, 4742</li> <li>• Special Education: 3700, 3820, 3900, 4200, 4740</li> </ul> </li> <li>• Approved application for Observation and Field Experience</li> </ul>
#3 <b>Admission to Student Teaching</b>	<ul style="list-style-type: none"> <li>• Overall GPA <math>\geq</math> 2.7</li> <li>• Major GPA <math>\geq</math> 2.7 (Adolescence Education)</li> <li>• Education course GPA <math>\geq</math> 2.7</li> <li>• Completion of all course work</li> <li>• Early Review of Practice Benchmark Performances<sup>2</sup></li> <li>• C- (B for Social Studies) or better in Observation / Field Experience courses</li> <li>• Approved application for Student Teaching</li> </ul>
#4 <b>Program Completion</b>	<ul style="list-style-type: none"> <li>• Overall GPA <math>\geq</math> 2.7</li> <li>• Major GPA <math>\geq</math> 2.7 (Adolescence Education)</li> <li>• Education course GPA <math>\geq</math> 2.7</li> <li>• Level 2 or higher on all Benchmark Performances evaluated by faculty<sup>2</sup></li> <li>• Level 2 or higher on all dimensions of the Student Teaching Candidate Proficiency Evaluation, as evaluated by field supervisor and cooperating teacher<sup>3</sup></li> <li>• Formal application process</li> </ul>
#5 <b>Certification</b>	<ul style="list-style-type: none"> <li>• State Exams – LAST,ATS-W and CST</li> <li>• Workshops in School Violence Prevention and Intervention and Child Abuse Identification</li> </ul>

<sup>1</sup>Bilingual Education majors must also complete a writing sample in Spanish

<sup>2</sup>Benchmark performances are certain course assignments used by faculty to assess candidates' progress

<sup>3</sup>Student Teaching Candidate Proficiency Evaluation is a summative evaluation of candidate knowledge, skills and dispositions near the end of the program

**Important notice:** The New York State Education Department and the State University of New York periodically revise graduation and/or certification requirements for teachers. When changes occur, students are bound by the new requirements instead of those listed in this catalog.

## Evening Students

Every effort is made to offer required courses in the evening. While students can expect to complete their required Education courses in either the day or evening, it is important for all students to realize that the field experiences can be completed only during the day when local schools are in session. Some students may find that they will need more than four years to complete all requirements.

## Grades of D:

D grades are not accepted for required courses.

## Credit/No Credit Option:

The Credit/No Credit option is not permitted for any required courses.

## Advisement

- A full-time Director of Student Services acts as advisor to all new and transfer students. Appointments may be made by contacting the School of Education secretary in Room C-116 or by calling (516) 876-3275/3216 or 334-3982.
- Education majors are assigned a faculty advisor after acceptance to the School of Education.
- Students must see their assigned advisor each semester to obtain a pin number for registration.
- Students may change advisors after consultation with the Dean, Director of Student Services and faculty advisor.
- Adolescence Education majors obtain advisement from the following coordinators:

<b>Biology</b>	Fernando Espinoza
<b>Chemistry</b>	Fernando Espinoza
<b>Mathematics</b>	Myong-Hi Kim
<b>Spanish</b>	Fran Malkin
<b>Social Studies</b>	Carl Mirra or Laura Anker

Majors in Biology, Chemistry, Mathematics and Spanish also obtain formal advising within their respective content area department.

## New York State Teacher Certification Examinations

Graduates requesting initial teacher certification must pass the New York State Teacher Certification Examinations (NYSTCE): The Liberal Arts and Science Test, the Assessment of Teaching Skills – Written, and the Content Specialty Test. Bilingual Education graduates must also pass the Bilingual Education Assessment.

SUNY College at Old Westbury complies with Title II reporting of the results of the NYSTCE exams with this statement. According to information obtained from the New York State Education Department, in 2004-2005, 99% of School of Education completers passed the Assessment of Teaching Skills – Written, and 99% of completers pass the Liberal Arts and Science Test. The summary pass rate on all examinations was 88%.

## General Education Requirements

All students must fulfill the College's General Education Program requirements as stated in the *General Education Bulletin*. In addition, all Childhood and Exceptional Education majors must complete:

- An upper division literature course in English
- A U.S. culture or geography course
- Two natural science courses with lab
- One mathematics course beyond MA1020, which is required for college mathematics proficiency
- Two semesters of foreign language (American Sign Language is acceptable)

## Disciplinary Concentrations

All Childhood and Exceptional Education majors must complete 32 credits or 8 courses of 3 credits or more in a disciplinary concentration in the liberal arts and sciences.

# CHILDHOOD EDUCATION AND LITERACY DEPARTMENT

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**Professors:** Basilio Serrano, Karlyn Wood  
**Associate Professors:** Velta Clarke, Kathleen Velsor  
**Assistant Professors:** Sharon O'Connor, Margaret Renner

## Requirements for the Majors

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### BACHELOR OF SCIENCE (B.S.) DEGREE IN CHILDHOOD EDUCATION (GRADES 1-6)

**A. General Education-See requirements previously stated.**

**B. A 32 credit concentration in a liberal arts or science discipline.**

Students may transfer a maximum of four of these courses from other institutions. The disciplinary concentrations are described on pages 107 to 109.

**C. 32 credits in required Education courses:**

- ED3700 Child Development & Practicum for Teachers
- ED3820 Foundations of Special Education
- ED3900 Foundations of Education
- ED4120 Methods & Materials of Teaching Mathematics, Science, and Technology in the Elementary Classroom
- ED4200 Foundations of Reading I
- ED4220 Teaching Reading II
- ED4740 Interdisciplinary Instructional Strategies

**And one of the following three courses:**

- ED4660 Issues in Multicultural Education;
- or**
- ED3600 Puerto Rican and Other Hispanic Children:What Teachers Need to Know;
- or**
- ED3650 Foundations of Bilingual/Multicultural Education

**D. 16 credits in required field experiences:**

- ED5930 Observation & Seminar
- ED5940 Student Teaching & Seminar

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### BACHELOR OF SCIENCE (B.S.) DEGREE IN CHILDHOOD EDUCATION WITH A BILINGUAL EXTENSION/SPANISH (GRADES 1-6)

In addition to the admission requirements for the School of Education, students in Bilingual Education must demonstrate proficiency in the use of grammar, punctuation and syntax in English and Spanish and demonstrate oral communications skills in both languages.

**A. General Education-See requirements previously stated.**

**B. A 32 credit concentration in a liberal arts or science discipline.**

Students may transfer a maximum of four of these courses from other institutions. The disciplinary concentrations are described on pages 107 to 109.

**C. 40 credits in required Education courses:**

- ED3600 Puerto Rican and Other Hispanic Children:What Teachers Need to Know
- ED3650 Foundations of Bilingual/Multicultural Education
- ED3700 Child Development and Practicum for Teachers
- ED3820 Foundations of Special Education

- ED3900 Foundations of Education
- ED4120B Methods & Materials of Teaching Mathematics, Science & Technology in the Bilingual Classroom
- ED4200 Foundations of Reading I
- ED4220B Teaching Reading II (Bilingual)
- ED4670 Methods & Materials of Teaching English as a Second Language
- ED4740B Interdisciplinary Instructional Strategies in the Bilingual Classroom

**D. 16 credits in required field experiences:**

- ED5930 Observation & Seminar
- ED5940B Student Teaching in a Bilingual Classroom & Seminar

# EXCEPTIONAL EDUCATION AND LEARNING DEPARTMENT

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**Associate Professor:** Julio Gonzalez Martinez  
**Assistant Professor:** Eileen McCarthy

## BACHELOR OF SCIENCE (B.S) DEGREE IN SPECIAL EDUCATION AND CHILDHOOD EDUCATION (GRADES 1 TO 6) (DUAL CERTIFICATION)

### A. General Education

See requirements previously stated.

### B. A 32 credit concentration in a liberal arts or science discipline.

Students may transfer a maximum of four of these courses from other institutions. The disciplinary concentrations are described on pages 107 to 109.

### C. 28 credits in Childhood Education courses:

- ED3700 Child Development & Practicum for Teachers
- ED3900 Foundations of Education
- ED4120 Methods & Materials of Teaching Mathematics, Science, and Technology in the Elementary Classroom
- ED4200 Foundations of Reading I
- ED4220 Teaching Reading II
- ED4740 Interdisciplinary Instructional Strategies

### And one of the following three courses:

- ED4660 Issues in Multicultural Education; or
- ED3600 Puerto Rican and Other Hispanic Children: What Teachers Need to Know

or

- ED3650 Foundations of Bilingual/Multicultural Education

### D. 20 credits in required Special Education courses:

- ED3820 Foundations of Special Education
- ED4300 The Student with Learning Disabilities
- ED4810 The Student with Emotional Disabilities
- ED4850 Curriculum & Materials for Teaching the Student with Learning Disabilities
- ED4890 The Student with Cognitive Disabilities: Overview, Theories, and Practices

### E. 16 credits in required field experiences:

- ED5930 Observation & Seminar
- ED5960 Student Teaching & Seminar

### And corequisite

- ED5980 Student Teaching & Seminar

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## BACHELOR OF SCIENCE (B.S.) DEGREE IN SPECIAL EDUCATION WITH A BILINGUAL EXTENSION/SPANISH

In addition to admission requirements for the School of Education, Special Education candidates with a Bilingual Extension are required to demonstrate proficiency in the use of grammar, punctuation and syntax in English and Spanish and to demonstrate oral communications skills in both languages.

### A. General Education

See requirements previously stated.

### B. A 32 credit concentration in a liberal arts or science discipline.

Students may transfer a maximum of four of these courses from other institutions. The disciplinary concentrations are described on pages 107 to 109.

### C. 36 credits in Elementary/Childhood Education courses:

- ED3600 Puerto Rican & Other Hispanic Children: What Teachers Need to Know
- ED3650 Foundations of Bilingual/Multicultural Education
- ED3700 Child Development & Practicum for Teachers
- ED3900 Foundations of Education
- ED4120B Methods & Materials of Teaching Mathematics, Science, and Technology in the Bilingual Classroom
- ED4200 Foundations of Reading I

- ED4220B Teaching Reading II (Bilingual)
- ED4670 Methods & Materials of Teaching English as a Second Language
- ED4740B Interdisciplinary Instructional Strategies in the Bilingual Classroom

### D. 20 credits in required Special Education courses:

- ED3820 Foundations of Special Education
- ED4300 The Student with Learning Disabilities
- ED4810 The Student with Emotional Disabilities
- ED4850 Curriculum & Materials for Teaching the Student with Learning Disabilities
- ED4890 The Student with Cognitive Disabilities: Overview, Theories, and Practices

### E. 16 credits in required field experiences:

- ED5930 Observation, Practicum & Seminar
- ED5960B Student Teaching and Seminar

### And corequisite

- ED5980B Student Teaching and Seminar

## DISCIPLINARY CONCENTRATIONS FOR CHILDHOOD, BILINGUAL, AND SPECIAL EDUCATION MAJORS ONLY - 32 CREDITS IN EACH CONCENTRATION

### American Studies Concentration

- AS3112 The American People I
- AS3122 The American People II

#### AND

Two American Studies courses at the 4000-level  
Two American Studies courses at the 5000-level

#### AND

Two American Studies elective courses  
Only one 1000 or 2000-level course may be counted among these courses.

### Biology Concentration

- BS2400 Basic Biological Science I with Lab
- BS2410 Basic Biological Science II with Lab
- CP2120/2121 Principles of Chemistry I with Lab
- CP2130/2131 Principles of Chemistry II with Lab
- One course in Physics with Lab

Three upper division biology courses (one course from each of the following areas: Cellular and Molecular; Organismic and Population:

#### Cellular-Molecular Area:

- BS4400 Cell Biology
- BS4460 Genetics

#### Organismic Area:

- BS3400 Vertebrate Physiology
- BS3520 Comparative Anatomy

#### Population Area:

- BS4440 Evolution
- BS4470 Ecology

### Chemistry Concentration (33 credits)

- CP2120/2121 Principles of Chemistry I with Lab
- CP2130/2131 Principles of Chemistry II with Lab
- CP2150 Chemistry for Consumers
- CP3300/3302 Organic Chemistry I with Lab
- CP3400 Chemical Analysis
- CP2220/2221 Structure of Physics I with Lab
- CP2230/2231 Structure of Physics II with Lab
- MA2090 Precalculus

### Language and Literature: World Literature Concentration

#### 1. Linguistic Foundations (choose one):

- EL2421 Introduction to Language
- EL3010 Structure and Grammar of English

#### 2. Literary Analysis (both required):

- EL3500 Literature Across Cultures I: Analysis and Interpretation
- EL3510 Literature Across Cultures II: Theory

#### 3. Literary Traditions: World Literature

##### a. Both required:

- EL3560 Literatures of Europe Part I
- EL3561 Literatures of Europe Part II

##### b. Choose one:

- EL4311 Greek Drama
- EL4312 Greek Mythology
- EL4325 Shakespeare: Selected Plays
- EL4380 The Novel
- EL4510 Modern Drama and Theater
- EL4520 Reading and Writing the Short Story
- EL4540 Epic: East and West

### 4. World Literature Perspectives

#### a. Surveys—Choose one:

- EL3865 Literatures of Asia and the Middle East
- EL3870 Literatures of Africa
- EL3880 Masterpieces of Hispanic Literature

#### b. Electives—Choose one:

- EL3811 Survey of African American Literature
- EL3875 Chinese Literature
- EL3901 Introduction to Creative Writing
- EL3903 Writing for Stage and Screen
- EL4090 African American Novel
- EL4091 African American Poetry and Plays
- EL4381 Modern English Literature
- EL4402 Sin and Sexuality in Literature
- EL4405 Caribbean Literature
- ML3410 Latino Writers in the US

### Multicultural US/ British Literature Concentration

#### 1. Linguistic Foundations (choose one):

- EL2421 Introduction to Language
- EL3010 Structure and Grammar of English

#### 2. Literary Analysis (both required):

- EL3500 Literature Across Cultures I: Analysis and Interpretation
- EL3510 Literature Across Cultures II: Theory

#### 3. Literary Traditions: Multicultural Literature

##### a. Choose two:

- EL3600 US Literature I
- EL3610 US Literature II
- EL3800 English Literature I
- EL3810 English Literature II

##### b. Choose one:

- EL3100 Oral Interpretation/Oral Tradition
- EL4200 Biblical-Classical Foundations of Multicultural Literature
- EL4300 20<sup>th</sup>-Century Literature: Colonialism and Postcolonialism
- EL4400 Critical Theory
- EL4500 Topics in British/US Literature
- EL4540 Epic: East and West

#### 4. Perspectives on Literature

##### a. Choose one:

EL3811	Survey of African American Literature	
EL4000	Native American Literature	
EL4010	Harlem Renaissance	
EL4020	Asian American Literature	
EL4030	Women and Narrative	
EL4040	Women Writers of the Harlem Renaissance	
EL4050	Lesbian and Gay Literature	
EL4060	Literature of Class and Class Consciousness	
EL4070	Topics in African American Literature	
EL4080	Extraordinary Bodies: Disability in Literature	
EL4090	African American Novel	
EL4091	African American Poetry and Plays	
EL4405	Caribbean Literature	
ML3410	Latino Writers of the US	

##### b. Required for all students in the concentration:

EL4800	Major Authors	
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#### Mathematics Concentration

MA2310	Calculus and Analytic Geometry I	4 cr.
MA2320	Calculus and Analytic Geometry II	4 cr.
MA3030	Discrete Mathematics	4 cr.
MA3160	Linear Algebra	4 cr.
MA3210	Introduction to Probability and Statistics	4 cr.
MA3810	Mathematical Logic and Set Theory	4 cr.
<b>OR</b>		
MA4100	Number Theory	4 cr.
MA4510	Geometry	4 cr.
MA5120	Abstract Algebra I	4 cr.

#### Politics, Economics and Society Concentration

PE1401	Introduction to Economics	4 cr.
PE2650	Introduction to U.S. Politics	4 cr.
PE3400	Political Economy of the Third World	4 cr.
PE3410	U.S. Political Economy	4 cr.
PE4470	History of Economic Thought	4 cr.
<b>OR</b>		
PE4620	Political and Social Thought	4 cr.
PE4580	Origins of the Capitalist Economy	4 cr.
<b>OR</b>		
PE4590	Global Economy in the 20 <sup>th</sup> Century	4 cr.
<b>AND</b>		
	Two upper-division electives in PES	8 cr.

#### Spanish Language, Hispanic Literature and Culture Concentration

##### Option #1

The first option is for students with little or no prior study of Spanish and consists of the following courses:

ML1100	Basic Spanish Conversation I	4 cr.
ML1110	Basic Spanish Conversation II	4 cr.
ML2100	Intermediate Spanish Conversation I	4 cr.
ML2110	Intermediate Spanish Conversation II	4 cr.
ML3100	Intensive Spanish Conversation and Composition	4 cr.

ML3110	Advanced Spanish Conversation and Composition for Non-Native Speakers	4 cr.
ML3500	Critical Writing and Textual Analysis	4 cr.
ML3600	Introduction to the Study of Hispanic Lit	4 cr.

##### Option #2

The second option is for students who enter with skills at an intermediate level and consists of:

ML2100	Intermediate Spanish Conversation I	4 cr.
ML2110	Intermediate Spanish Conversation II	4 cr.
ML3100	Intensive Spanish Conversation and Composition	4 cr.
ML3110	Advanced Spanish Conversation and Composition for Non-Native Speakers	4 cr.
ML3500	Critical Writing and Textual Analysis	4 cr.
ML3600	Introduction to the Study of Hispanic Lit	4 cr.
ML4520	Culture & Literature of the Spanish Caribbean	4 cr.

##### **OR**

ML4540	Culture and Literature of Latin America	
ML4100	The Spanish Golden Age	4 cr.

##### **OR**

ML4500	Culture and Literature of Spain	4 cr.
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##### **OR**

ML4700	Studies in Spanish Literature of the Nineteenth and Twentieth Centuries	4 cr.
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##### Option #3

The third option is for students fluent in Spanish and consists of:

ML3362	Advanced Spanish Grammar and Composition for Native Speakers	4 cr.
ML3500	Critical Writing and Textual Analysis	4 cr.
ML3600	Introduction to the Study of Hispanic Lit	4 cr.
ML4100	The Spanish Golden Age	4 cr.
<b>OR</b>		
ML4500	Culture and Literature of Spain	4 cr.
<b>OR</b>		
ML4700	Studies in Spanish Literature of the Nineteenth and Twentieth Centuries	4 cr.
ML4520	Culture & Literature of the Spanish Caribbean	4 cr.

##### **OR**

ML4540	Culture and Literature of Latin America	4 cr.
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Three additional 4000 or 5000 level courses by advisement, including at least one 5000-level course 12 cr.

#### Visual Arts Concentration

##### Foundation Courses

12 cr.

VA2010	Introduction to Creative Thinking	
VA2020	Basic Design	
VA2500	Art History Survey I	

##### **OR**

VA2510	Art History Survey II	
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##### Art Tutorials with Faculty Mentor

12 cr.

VA3200	Art Tutorials I	
VA4200	Art Tutorials II	
VA5200	Art Tutorials III	

**Advanced Requirements**

- VA4900 Internship  
VA5900 Senior Project

**8 cr.****Western Civilization Concentration**

Students may take no more than three of the following courses at the 2000 level. At least 3 courses must be at the 4000/5000 level.

**The core: 3 required courses distributed as follows from the courses listed below:**

**12 cr.****The Heritage of the West (choose one)**

- EL3560 Literatures of Europe, Part I: Old Testament and Homer to the Renaissance  
EL3561 Literatures of Europe, Part II: Age of Enlightenment to the Twentieth Century  
HI2521 World History II: Western Civilization  
HI2681 Introduction to Europe History 1350-present  
HI3002 Rise of Reason—The Classical Origins of Western Culture  
HI3011 Foundations of Judeo-Christian Tradition  
HI3021 Europe in the Middle Ages  
HI3030 God to Machine 16th-18th Century  
HI3102 Hispanic Heritage  
HI4557 Renaissance and Reformation in Europe

**The Heritage of Asia, Africa, The Middle East and Latin America (choose one)**

- EL3865 Literatures of Asia and the Middle East  
EL3870 Literatures of Africa  
HI2511 World History I: Non-Western  
HI3080 Asian Cultures  
HI3091 African Cultures  
HI3110 Latin American Culture  
HI3835 Islamic Cultures

**Methodological (Interdisciplinary, disciplinary, cross-cultural)/Convergence (choose one)**

- EL3510 Literature Across Cultures II: Theory  
HI/EL2310 Introduction to Literature  
HI/EL2421 Introduction to Language  
HI2720 Introduction to Philosophy  
HI3040 Analysis of Culture  
HI3052 Anatomy of Science  
HI4001 Nineteenth Century  
HI4011 Twentieth Century  
HI4062 Making History

**Electives****20 cr.**

Any 5 courses with CH prefix. Guidelines as to levels must be followed (see above).

# ADOLESCENCE EDUCATION – SCIENCE

**Associate Professor and Coordinator:** Fernando Espinoza

## BACHELOR OF SCIENCE (B.S.) OR BACHELOR OF ARTS (B.A.) DEGREE IN ADOLESCENCE EDUCATION - BIOLOGY - GRADES 7-12

Students in these programs earn degrees in both Biological Sciences and Adolescence Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Adolescence Education (grades 7-12) teachers. The School of Education Science Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have a Biological Sciences advisor.

See below for specific requirements.

**A. Biology Content Requirements**

Candidates must complete all requirements for either the BA or BS degree in Biological Sciences. The BS degree is highly recommended. See page 59 of this catalog for details.

**B. General Education Courses**

Students must complete all requirements of the Old Westbury General Education (GE) program.

**C. Education Core Courses**

- ED3200 The Nature and Development of Science  
ED3820 Foundations of Special Education  
ED3900 Foundations of Education  
ED4230 Reading Across the Curriculum

- ED4742 Middle Childhood & Adolescence (crosslisted as PY3220)  
ED4085 Methods and Materials of Teaching Science in Secondary School  
ED5901 Pre-teaching Practicum & Seminar  
ED5900 Student Teaching & Seminar in Adolescence Education (grades 7-12)

**D. Other Requirements**

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere. Students must earn grades no lower than C in all biology courses.

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## BACHELOR OF SCIENCE (B.S.) DEGREE IN MIDDLE CHILDHOOD EDUCATION - BIOLOGY - GRADES 5-9

Students in this program earn degrees in both Biological Sciences and Middle Childhood Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Middle Childhood Education (grades 5-9) teachers. The School of Education Science Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have a Biological Sciences advisor.

See below for specific requirements.

### A. Biology Content Requirements

Candidates must complete all requirements for either the BA or BS degree in Biological Sciences. The BS degree is highly recommended. See page 59 of this catalog for details.

### B. General Education Courses

Students must complete all requirements of the Old Westbury General Education program.

### C. Education Core Courses

ED3200 The Nature and Development of Science  
ED3820 Foundations of Special Education  
ED3900 Foundations of Education  
ED4230 Reading Across the Curriculum  
ED4740 Interdisciplinary Instructional Strategies

ED4742 Middle Childhood & Adolescence  
(crosslisted as PY3220)  
ED4085 Methods and Materials of Teaching Science in  
Secondary School  
ED5901 Pre-teaching Practicum & Seminar  
ED5910 Student Teaching & Seminar in Middle Childhood  
Education (grades 5-9)

### D. Other Requirements

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere. Students must earn grades no lower than C in all biology courses.

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## BACHELOR OF SCIENCE (B.S.) OR BACHELOR OF ARTS (B.A.) DEGREE IN ADOLESCENCE EDUCATION - CHEMISTRY - GRADES 7-12

Students in these programs earn degrees in both Chemistry and Adolescence Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Adolescence Education (grades 7-12) teachers. The School of Education Science Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have an advisor from the Chemistry/Physics Department.

See below for specific requirements.

### A. Chemistry Content Requirements

Candidates must complete all requirements for either the BA or BS degree in Chemistry. See page 63 of this catalog for details.

### B. General Education Courses

Students must complete all requirements of the Old Westbury General Education (GE) program.

### C. Education Core Courses

ED3200 The Nature and Development of Science  
ED3820 Foundations of Special Education  
ED3900 Foundations of Education

ED4230 Reading Across the Curriculum  
ED4742 Middle Childhood & Adolescence  
(crosslisted as PY3220)  
ED4085 Methods and Materials of Teaching Science in  
Secondary School  
ED5901 Pre-teaching Practicum & Seminar  
ED5900 Student Teaching & Seminar in Adolescence  
Education (grades 7-12)

### D. Other Requirements

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere.

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## BACHELOR OF SCIENCE (B.S.) DEGREE IN MIDDLE CHILDHOOD EDUCATION - CHEMISTRY - GRADES 5-9

Students in this program earn degrees in both Chemistry and Middle Childhood Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Middle Childhood Education (grades 5-9) teachers. The School of Education Science Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have an advisor in the Chemistry/Physics Department. See below for specific requirements.

### A. Chemistry Content Requirements

Candidates must complete all requirements for either the BA or BS degree in Chemistry. See page 63 of this catalog for details.

### B. General Education Courses

Students must complete all requirements of the Old Westbury General Education (GE) program.

### C. Education Core Courses

ED3200	The Nature and Development of Science
ED3820	Foundations of Special Education
ED3900	Foundations of Education
ED4230	Reading Across the Curriculum
ED4740	Interdisciplinary Instructional Strategies
ED4742	Middle Childhood & Adolescence (crosslisted as PY3220)

ED4085	Methods and Materials of Teaching Science in Secondary School
ED5901	Pre-teaching Practicum & Seminar
ED5910	Student Teaching & Seminar in Middle Childhood Education (grades 5-9)

### D. Other Requirements

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere.

# ADOLESCENCE EDUCATION – MATHEMATICS

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**Coordinator:** Myong-Hi Kim

## BACHELOR OF SCIENCE (B.S.) DEGREE IN ADOLESCENCE EDUCATION MATHEMATICS - GRADES 7-12

Students in this program earn degrees in both Mathematics and Adolescence Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Adolescence Education (grades 7-12) teachers. The School of Education Mathematics Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have an advisor from the Mathematics Department. See below for specific requirements.

### A. Mathematics Content Requirements

MA2030	Mathematical Logic and Set Theory
MA2310	Calculus & Analytical Geometry I
MA2320	Calculus & Analytical Geometry II
MA3030	Discrete Mathematics
MA3160	Linear Algebra
MA3180	*Foundations of Secondary School Mathematics
MA3210	Probability & Statistics
MA3330	Calculus & Analytical Geometry III
MA4510	Geometry
MA5120	Abstract Algebra I
MA5320	Advanced Calculus I
CS2510	Programming I

#### One Math or CIS Elective from the following list:

Any Mathematics course at or above the 4000 level

CS2511	Programming II
CS3810	Data Structures and Algorithms
CS3910	Java and Object-Oriented Programming

\*students who pass a placement test may take an elective from the list above in place of MA3180. Contact the mathematics education coordinator for further details.

### B. General Education Courses

Students must complete all requirements of the Old Westbury General Education (GE) program. MA2500 and an additional course from GE Domain 3A are strongly recommended.

### C. Education Core Courses

ED3820	Foundations of Special Education
ED3900	Foundations of Education
ED4230	Reading Across the Curriculum
ED4742	Middle Childhood & Adolescence (crosslisted as PY3220)
ED4082	Methods and Materials of Teaching Math in Secondary School
ED5901	Pre-teaching Practicum & Seminar
ED5900	Student Teaching & Seminar in Adolescence Education (grades 7-12)

#### and one of the following

ED3600	Puerto Rican and other Hispanic Children in U.S. Schools
ED3650	Foundations of Bilingual / Multicultural Education
ED4660	Issues in Multicultural Education

### D. Other Requirements

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere. A grade of C is required in all mathematics courses.

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## BACHELOR OF SCIENCE (B.S.) DEGREE IN MIDDLE CHILDHOOD EDUCATION MATHEMATICS - GRADES 5-9

Students in this program earn degrees in both Mathematics and Middle Childhood Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Middle Childhood Education (grades 5-9) teachers. The School of Education Mathematics Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have an advisor from the Mathematics Department. See below for specific requirements.

### A. Mathematics Content Requirements

- MA2030 Mathematical Logic and Set Theory
- MA2310 Calculus & Analytical Geometry I
- MA2320 Calculus & Analytical Geometry II
- MA3030 Discrete Mathematics
- MA3160 Linear Algebra
- MA3180 \*Foundations of Secondary School Mathematics
- MA3210 Probability & Statistics
- MA3330 Calculus & Analytical Geometry III
- MA4510 Geometry
- MA5120 Abstract Algebra I
- MA5320 Advance Calculus I
- CS2510 Programming I

#### One Math or CIS Elective from the following list:

Any Mathematics course at or above the 4000 level

- CS2511 Programming II
- CS3810 Data Structures and Algorithms
- CS3910 Java and Object-Oriented Programming

\*students who pass a placement test may take an elective from the list above in place of MA3180. Contact the mathematics education coordinator for further details.

### B. General Education Courses

Students must complete all requirements of the Old Westbury General Education (GE) program. MA2500 and an additional course from GE Domain 3A are strongly recommended.

### C. Education Core Courses

- ED3820 Foundations of Special Education
- ED3900 Foundations of Education
- ED4230 Reading Across the Curriculum
- ED4740 Interdisciplinary Instructional Strategies
- ED4742 Middle Childhood & Adolescence (crosslisted as PY3220)
- ED4082 Methods and Materials of Teaching Math in Secondary School
- ED5901 Pre-teaching Practicum & Seminar
- ED5910 Student Teaching & Seminar in Middle Childhood Education (grades 5-9)

#### and one of the following:

- ED3600 Puerto Rican and other Hispanic Children in U.S. Schools
- ED3650 Foundations of Bilingual / Multicultural Education
- ED4660 Issues in Multicultural Education

### D. Other Requirements

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere. A grade of C is required in all mathematics courses.

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# ADOLESCENCE EDUCATION - SPANISH

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Visiting Instructor and Coordinator: Fran Malkin

## BACHELOR OF ARTS (B.A.) DEGREE IN ADOLESCENCE EDUCATION SPANISH - GRADES 7-12

Students in this program earn a degree in Spanish Language, Hispanic Literature and Culture, as well as a degree in Adolescence Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Adolescent Education (grades 7-12) teachers. The School of Education Spanish Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have an advisor from the Modern Languages Department. See below for specific requirements.

### A. Spanish Content Requirements

Candidates must complete all requirements for one of the options of the BA degree in Spanish Language, Hispanic Literature and Culture. See page 80 of this catalog for details.

### B. General Education Courses

Students must complete requirements of the Old Westbury General Education program.

### C. Education Core Courses

- ED3820 Foundations of Special Education
- ED3900 Foundations of Education
- ED4230 Reading Across the Curriculum
- ED4742 Middle Childhood & Adolescence (crosslisted as PY3220)
- ED4083 Methods and Materials of Teaching Spanish in Secondary School

- ED5901 Pre-teaching Practicum & Seminar
- ED5900 Student Teaching & Seminar in Adolescence Education (grades 7-12)
- and one of the following**
- ED3600 Puerto Rican and other Hispanic Children in U.S. Schools
- ED3650 Foundations of Bilingual / Multicultural Education
- ED4660 Issues in Multicultural Education

**D. Special Requirements**

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere.

Candidates must complete the Oral Proficiency Interview exam prior to completing the program. See the Spanish Education Coordinator for further details.

**BACHELOR OF SCIENCE (B.S.) DEGREE IN MIDDLE CHILDHOOD EDUCATION SPANISH - GRADES 5-9**

Students in this program earn a degree in Spanish Language, Hispanic Literature and Culture, as well as a degree in Middle Childhood Education. Candidates successfully completing this program of study are recommended by the College at Old Westbury to New York State for initial certification as Middle Childhood Education (grades 5-9) teachers. The School of Education Spanish Education coordinator is responsible for advising and approving students as they progress through the School of Education program. Students should also have an advisor from the Modern Languages Department. See below for specific requirements.

**A. Spanish Content Requirements**

Candidates must complete all requirements for one of the options of the BA degree in Spanish Language, Hispanic Literature and Culture. See page 80 of this catalog for details.

**B. General Education Courses**

Students must complete requirements of the Old Westbury General Education program.

**C. Education Core Courses**

- ED3820 Foundations of Special Education
- ED3900 Foundations of Education
- ED4230 Reading Across the Curriculum
- ED4740 Interdisciplinary Instructional Strategies
- ED4742 Middle Childhood & Adolescence (crosslisted as PY3220)
- ED4083 Methods and Materials of Teaching Spanish in Secondary School

- ED5901 Pre-teaching Practicum & Seminar
- ED5910 Student Teaching & Seminar in Middle Childhood Education (grades 5-9)

**and one of the following:**

- ED3600 Puerto Rican and other Hispanic Children in U.S. Schools
- ED3650 Foundations of Bilingual / Multicultural Education
- ED4660 Issues in Multicultural Education

**D. Special Requirements**

Candidates must earn a grade of C- or higher in all required courses for the degree, whether taken at Old Westbury or elsewhere.

Candidates must complete the Oral Proficiency Interview exam prior to completing the program. See the Spanish Education Coordinator for further details.

# ADOLESCENCE EDUCATION – SOCIAL STUDIES

**Program Coordinators:** Laura Anker and Carl Mirra

**BACHELOR OF ARTS (B.A.) DEGREE IN ADOLESCENCE EDUCATION SOCIAL STUDIES - GRADES 7-12**

Social Studies Adolescence Education (7-12) is an interdepartmental major offered jointly by the American Studies, Humanities and Languages, Politics, Economics and Society, and Teacher Education departments, leading to a Bachelor of Arts (B.A.) degree. All majors complete a social studies core and a concentration in either U.S. history and geography, world history and geography, or politics and economics. All students also complete the Education courses and field practica required for certification in Adolescence education.

The Social Studies major (SSAE) reflects Old Westbury's ongoing institutional commitment both to innovative, interdisciplinary education and to educating (and providing educators for) the multi-racial, multi-ethnic society that is America today. The objective of the major's interdepartmental curriculum and faculty structure is threefold: (1) to create an excellent and innovative program in Social Studies that provides our students with a broad knowledge base relevant to all areas of social studies; (2) to integrate content and pedagogy within a single major, thus facilitating the discussion of issues common to both; and (3) to create for Old Westbury's racially and ethnically diverse student body a curriculum that will facilitate the exploration and understanding of social and cultural diversity at a variety of historical, economic and political levels.

The nine SSAE program faculty meet regularly in an interdepartmental Social Studies Program Committee to oversee the business of the program, assess its success in preparing students for the certification examination, refine curriculum and make all transition point decisions. The program coordinators assign advisors according to students' content concentrations, review students' files before graduation and coordinate with Teacher Education field placements, preparation for licensing exams, and career counseling.

This B.A. degree prepares students to teach Social Studies in high schools and middle schools (grades 7-12). After passing statewide certification exams, students with this degree will be fully qualified to teach at the secondary level. Please consult the Social Studies coordinators, Carl Mirra or Laura Anker, or any of the following faculty for detailed information on the requirements for this major: Judith Walsh and Edward Bever (HI); Carolyn Cocca and Tom DelGiudice (PES) and Carl Mirra (SS/ AS).

## Admission to the Social Studies Program

**Pre-Candidacy:** students interested in the SSAE Program are encouraged to meet with a Social Studies advisor as soon in their college career as possible. Students can be advised by the Social Studies Program as early as the first semester they enroll at the college; they will be given information on requirements and courses, but they will not be formally admitted to the program until completion of 48 credits at the college (or upon the college's acceptance of 48 transfer credits if they are transfer students). Students must register their Core Concentration (American history, world history, politics and economics) with the Social Studies program by the beginning of their junior year.

Admission to Candidacy (readiness to begin the program)

1. Completion of a minimum of 48 credits of college study.
2. Math and English Proficiency
3. An overall grade point average (GPA) of B- (2.70)
4. Writing Sample. (Focused on dispositions and interest in teaching)
5. Begin portfolio

## Admission Requirements for the Social Studies Field Experience (readiness for classroom activities)

1. Maintenance of a minimum overall GPA of B- (2.70)
2. Minimum GPA of B- (2.70) in Social Studies pedagogy and content courses, including no less than a B (3.0) in ED 4086 (Methods and Materials of Teaching Social Studies)
3. Portfolio continuation

## Student Teaching (Readiness for Career)

1. Overall GPA of B- (2.70) with no less than B in ED 4086 (Methods) and ED5901 (Field experience)
2. Portfolio continuation, including Teaching Philosophy and Lesson Plans

## Capstone Experience

### A. Graduation:

Overall GPA of B- (2.70).

Minimum GPA of B- (2.70) in Social Studies pedagogy and content courses, including no less than a B (3.0) in ED 4086 (Methods) and ED5901 (Field Experience).

Successful Completion of ED5900 (Student Teaching) with a minimum of a B (3.0).

Successful Completion and Assessment of portfolio, including technology component (power point presentation, etc.).

Successful completion of capstone course: AS5000 (The U.S. in World and Multicultural Historical Perspective), including research paper and lesson plan presentation.

### B. Certification

1. Pass New York State Teacher Certification Examinations (LAST, ATS-WW, CST-Social Studies).
2. Complete workshops in School Violence Prevention and Intervention and Child Abuse Identification.

## Course Curriculum Requirements

### General Education 51–52 cr.

All students must fulfill the College's General Education Program requirements. Students should see a Social Studies program advisor to discuss specific course selection to fulfill the General Education requirement. Students considering the SSAE major should try to select courses to fulfill the General Education requirements that are part of the Social Studies major.

Foreign Language: SSAE majors should take 2 courses in Domain 6 (Foreign Languages). Students who passed the foreign language regents in high school are considered to have satisfied the foreign language mandate. These students must see their Social Studies advisor to provide documentation and have a letter sent to the State Board of Education. However, these students must still fulfill Old Westbury's General Education requirements in language. Such students must take only one semester of foreign language to fulfill the college's General Education requirement.

## Social Studies Content Courses 56 cr.

- Social Studies Foundation Core
- Social Studies Concentration
- Social Studies Seminar

### Coursework in one of the following:

- U.S. History and Society (American Studies Department)
- World History, Geography and Culture (History and Philosophy Department)
- Politics and Economics (Politics, Economics, and Society Department)

## Social Studies Pedagogical Courses

34 cr.

- ED3820 Foundations of Special Education
- ED4230 Reading Across the Curriculum
- ED4742 Middle Childhood and Adolescence
- ED4086 Methods & Materials of Teaching Secondary Social Studies
- ED5901 Practicum in Secondary Education (to be taken concurrently with ED4086)
- ED5900 Social Studies Student Teaching and Seminar

## Specific Requirements

### SOCIAL STUDIES CONTENT COURSES:

56 cr.

#### I. Social Studies Foundation Core:

32 cr.

#### A. U.S. History and Geography:

- AS3112 American People I
- AS3122 American People II

#### B. World History and Geography:

- HI2511 World History I: Non-Western
- And one of the following:
- HI2521 World History II: Western Civilization
- HI2681 Intro to European History 1350-present

#### C. Politics and Economics:

- PE2650 Introduction to US Politics
- And one of the following:
- PE1401 Introduction to Economics
- PE2430 Principles of Macroeconomics

#### D. Science, Technology and Society:

- One of the following:
- ED3200 The Nature of Science
- HI2200 Science in Western Civilization
- HI2802 Technology and Culture
- HI3030 God to Machine: 16th-18th Century
- HI3052 Anatomy of Science

#### E. Geography:

- PE3600 Global Geography: People, Places and Environments

### II. SOCIAL STUDIES SEMINAR:

4 cr.

- AS5000 The U.S. in World & Multicultural Historical Perspective

### III. SOCIAL STUDIES CONCENTRATION

(choose A, B, or C – see below for specific courses): 20 cr.

- A. U.S. History and Society
- B. World History, Geography and Culture
- C. Politics and Economics

### SOCIAL STUDIES PEDAGOGICAL COURSES:

34 cr.

- ED3900 Foundations of Education

### CONCENTRATIONS

Choose ONE — A, B, or C – 20 cr. each

#### A. U.S. History and Society

##### 1. U.S. History and Society

##### General and Thematic Courses Choose one:

- AS3252 US Social Movements
- AS3262 African-American History I
- AS3263 African-American History II
- AS3402 History of Women and Work
- AS3412 African-American Women's History
- AS3462 History of Women in the US
- AS3632 History of US Film
- AS3722 History of Mass Media
- AS4215 Critical Ideas in American History
- AS4250 Immigration Today
- AS4290 Youth in America: A History
- AS4402 History of the Family in the U.S.
- AS4432 History of the Women's Movement
- AS4715 African-American Thought and Culture
- SY3900 Social Change and Social Movements

##### Period Courses Choose two:

- AS4212 Early America
- AS4218 Civil War and Reconstruction
- AS4222 The Gilded Age
- AS4252 Immigrants, Migrants and Americanization
- AS4282 America War & Peace: 1898 to the Present
- AS4288 Contemporary US Foreign Policy
- AS4292 1945-1975: Popular Culture Social Change
- AS4285 Vietnam and After

##### 2. U.S. Politics, Economics and Demography Choose one:

- AS3222 History of City and Suburb
- AS4420 History of New York City and State
- PE3410 Contemporary US Political Economy

- PE3850 State and Local Politics
- PE4590 Global Economy in the 20<sup>th</sup> Century
- PE4620 Political and Social Thought
- PE4655 Constitutional Law and Politics
- PE4658 Law and Civil Liberties
- SY4320 Population and Society
- SY4850 Urban and Suburban Sociology

### 3.5000-Level Capping Course

#### Choose one:

- AS5112 American Voices
- AS5202 American Social and Political Visions
- AS5212 Historical Perspectives
- AS5312 History of US Culture
- AS5412 Protest and Change
- AS5420 Propaganda & Mass Persuasion
- AS5712 Mass Media and Popular Culture
- AS5800 Research in American History and Culture

### B. World History, Geography and Culture

#### 1. Heritage of the West

##### Choose two:

*One course must be in European History (Marked EH)*

- HI3002 Rise of Reason
- HI3011 Foundations of Judeo-Christian Tradition
- HI3021 Europe in the Middle Ages (EH)
- HI3030 God to Machine 16th-18th Century (EH)
- HI3102 Hispanic Heritage (EH)
- HI3455 Modern European Revolutions (EH)
- HI3695 Modern Russia (EH)
- HI4415 Europe of the Dictators (EH)
- HI4557 Renaissance and Ref in Europe (EH)
- HI4681 Science and Religion

#### 2. World Civilizations

##### Choose three:

Two different world regions must be represented. One course must be in World History (marked WH)

- HI3080 Asian Cultures (WH)
- HI3091 African Cultures
- HI3110 Latin American Culture (WH)
- HI3640 African History (WH)
- HI3692 Modern Asia (WH)
- HI3835 Islamic Cultures
- HI4632 Japanese History (WH)
- HI4900 Modern China (WH)
- HI4905 Chinese Civilization (WH)
- PE4660 Politics of South Asia
- PE4690 Politics of Latin America and the Caribbean

### 3. Global Perspectives:

One of the following courses may be substituted for one course in either 1 or 2 above:

- AS3432 Women and Culture
- HI3040 Analysis of Culture
- HI4001 Nineteenth Century
- HI4011 Twentieth Century
- HI4062 Making History
- PE3450 Women from a Global Perspective
- SY4500 Cross Cultural Analysis

### C. Politics and Economics

#### 1. Foundation courses

##### Choose two:

- PE2420 Principles of Microeconomics
- PE2430 Principles of Macroeconomics  
(not an option if taken in core requirements)
- PE3410 Contemporary US Political Economy
- PE4590 Global Economy 20th Century

#### 2. Comparative and International Politics and Economics

##### Choose one:

- PE3100 International Relations
- PE3400 Political Economy of the Third World
- PE3440 International Economics
- PE3450 Women from a Global Perspective
- PE5150 Terrorism and Politics
- PE4660 Politics of South Asia
- PE4680 Political Systems
- PE4690 Politics of Latin American & Caribbean

#### 3. History of Social and Political Thought

##### Choose one:

- PE3010 History of Social Theory
- PE4620 Political Thought

#### 4. U.S. Politics

##### Choose one:

- PE3690 City and Suburb: Political Action and Change
- PE3850 State and Local Politics
- PE4409 Urban Economics
- PE4609 Public Administration
- PE4650 Contemporary US Politics
- PE4655 Constitutional Law and Politics
- PE4658 Law and Civil Liberties