

**Education**

See the School of Education section of this catalog for pedagogical courses and other requirements.

**Culminating Project**

Students will be expected either to prepare a research proposal or to conduct a research project while enrolled in **CHEM 660**, which serves as the capstone course in chemistry.

**DOCTOR OF PHILOSOPHY**

Students are encouraged to apply directly to the PhD program, which is offered through the CUNY Graduate School and University Center. PhD dissertation research is carried out in the Hunter College Department of Chemistry. A PhD in biochemistry is also offered through the CUNY Graduate School and University Center. For further information contact Professor Klaus Grohmann, 1401 North Building, (212) 772-5333 or visit the website at <http://web.gc.cuny.edu/chemistry>.

**COURSE LISTINGS**

Courses 45 hrs, 3 cr unless otherwise noted.

**CHEM 630 Science and Society**

A study of the interactions between technological and societal changes, with an emphasis on eliciting within the classroom productive oral and written critiques and debates concerning potentially controversial technological change. Focusing on present-day issues, students will learn various models for analyzing the impact scientific change has on society and how social change directs science.

*prereq: permission of instructor*

**CHEM 640 Biochemistry 1**

Proteins, enzymes, bionergetics

*prereq: 1 year of organic chemistry fall only*

**CHEM 641 Biochemistry 2**

Metabolism, biomedical genetics, immuno-biochemistry, hormones, muscle biochemistry

*prereq: CHEM 640 or BIO 710.13 or 300 spring only.*

**CHEM 655 Demonstrations, Models, and Technology****CHEM 660 Challenging Concepts in Chemistry**

Overview of research and theory related to misconceptions in chemistry. Students will be expected to develop a research proposal or to conduct the research in their own classrooms, and write a paper in the form of a journal article. The article will serve as the culminating project for the science portion of the MA.

*4 hrs, 4 cr*

*prereq: CHEM 655, CHEM 630, and one elective course or permission of instructor.*

*\*Courses at the 700 level are offered at the graduate center and can be taken only with permission of the program adviser.*

**CLASSICS****Department Office:**

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**Chair: Tamara M. Green,**

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[tgreen@hunter.cuny.edu](mailto:tgreen@hunter.cuny.edu)

**Director, MA in Adolescence****Education (Grades 7-12), Latin:****Ronnie Ancona,**

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**FACULTY****Ronnie Ancona, Associate Professor;** PhD,

Ohio State; Latin Poetry, Latin Pedagogy, Horace, Women in Classical Antiquity

**Tamara M. Green, Professor and Chair;** PhD,

NYU; Ancient History, Late Antiquity, Greek and Roman Religion

**Adele J. Haft, Associate Professor;** PhD,

Princeton; Classical Epic and Tragedy, Classical Mythology, Greek and Roman Civilization

**Robert B. Koehl, Associate Professor;** PhD,

Pennsylvania; Classical Archaeology

**William J. Mayer, Lecturer;** MA, Columbia;

Latin Pedagogy, Cicero, Vergil

**Joanne M. Spurza, Assistant Professor;** PhD,

Princeton; Classical Archaeology, Ancient Roman Architecture and Urban Studies

**Robert J. White, Professor;** PhD, Yale; Greek

Literature, Classical Mythology, Greek Tragedy, Classics in Translation, Caesar

**Faculty Emeriti****Sarah B. Pomeroy, Distinguished Professor**

**Emerita;** PhD, Columbia; Women and the Family in Classical Antiquity; Social History, Papyrology

In addition to its undergraduate majors in the fields of Latin, Greek, Classical Studies, and archaeology, the Department of Classical and Oriental Studies offers undergraduate majors in Chinese, Hebrew, and Russian as well as a six-semester sequence in Japanese. It also participates in the interdepartmental programs in Russian and East European Area Studies, and Religion.

**PROGRAM FOR TEACHERS OF ADOLESCENCE EDUCATION (Grades 7 - 12) — LATIN MA**

The MA program in the teaching of Latin is designed for students who have majored in Latin on the undergraduate level and want to pursue a teaching career in grades 7-12; and for teachers certified in another area who wish to gain certification in Latin. This program is not for individuals with initial or provisional certification in Latin.

This program differs from the traditional MA program in Latin in two ways. First, each of the language courses provides the student with both increased linguistic competency and a pedagogical methodology for teaching Latin

**Degrees Offered**

Degrees Offered	HEGIS
Latin	BA* 1109
Greek	BA* 1110
Latin and Greek	BA* 1504
Classical Studies	BA* 1504
Archaeology	BA* 2203
Latin — Grades 7-12	MA 1109.01

*\* See the Hunter College Undergraduate Catalog, 2002-2004, p. 73 for description of undergraduate degrees and courses in classics.*

more effectively. In addition, the program requires courses in ancient culture and literature in translation; these can be useful later in designing humanities courses suited to the junior and senior high school curricula.

Classes meet in the late afternoon and evening, making the program accessible to people who work during the day.

**Requirements for Admission**

Applicants must present a bachelor's degree from an accredited institution acceptable to Hunter College. An undergraduate major in Latin or classics or the equivalent (24 credits in Latin) is required for admission. Students with 18 credits in undergraduate Latin courses may be admitted provisionally if they are certified to teach languages other than Latin.

An undergraduate average of 3.0 (B) in the major and an overall cumulative average of 2.8 (B-) are required for admission. The selection process includes a personal interview to determine the applicant's suitability for the program as well as an application essay and two professional letters of references.

A general education core in the liberal arts and sciences to include the following: 6 credits in English, 6 credits in the arts, 6 credits in social studies (to include at least one course in U.S. history and geography), and 12 credits in math/science/technology.

Applicants must be approved for admission by both the Classics Department and the School of Education. See the School of Education section of this catalog for any additional admission requirements.

**Requirements for the Degree**

The course of study for the MA in the teaching of Latin has three components which typically total 52-54 credits except for students already certified in another academic subject in grades 7-12.

- 18 credits in Latin, including Latin composition. Up to two courses (6 credits) in Latin may be taken in the graduate program in classics at the CUNY Graduate Center.
- 12 credits in classical culture, including **CLA 705**
- 22-24 credits in education

## Program of Study

- 1. 18 cr in Latin** credits
- A. 9 cr from the following:** ..... 9
- LAT 701** Literature of the Early Republic
- LAT 702** Literature of the Late Republic
- LAT 703** Literature of the Early Empire
- LAT 704** Literature of the Late Empire
- B. 6 cr from the following:** ..... 6
- LAT 705** Caesar
- LAT 706** Cicero
- LAT 707** Vergil
- LAT 708** Supervised Reading
- C. LAT 709 Latin Composition** ..... 3
- 2. 12 cr in Classical Culture** credits
- A. 9 cr from the following:** ..... 9
- CLA 701** The Legacy of Ancient Greece
- CLA 702** The Legacy of Ancient Rome
- CLA 703** Classical Literature in Translation I
- CLA 704** Classical Literature in Translation II
- B. CLA 705 Greek and Latin Roots of English** ..... 3
- 3. 22-24 cr in Education**
- Students may be exempted from (a maximum of) 6 credits of this sequence by the School of Education on the basis of prior equivalent course work.
- SEDF 703** ..... 3
- Social Foundations of Adolescence Education
- SEDF 704** ..... 2
- Adolescent Development, Grades 7-12
- SEDF 705** ..... 2
- Educational Psychology: Applications to Adolescence Education
- SEDF 706** ..... 2
- Assessment of Teaching and Learning in Adolescence Education
- SEDC 710** ..... 3
- Building the Foundations of Literacy in Adolescence Education
- LATED 712** ..... 3
- Methods 1: Intensive Study of Classroom Organization, Management, and Instruction in Latin, Grades 7-12
- SEDC 720** ..... 1
- Adolescent Health and Safety
- LATED 713** ..... 2
- Methods 2: Intensive Study of Teaching Diverse Learners in Latin, Grades 7-12
- EITHER:**
- LATED 731** ..... 5
- Student Teaching in Latin in Grades 7-12
- OR** one of the following:
- LATED 751.10** ..... 3
- Student Teaching in Latin in Grades 7-9
- LATED 741.10** ..... 2
- Practicum in Latin, Grades 7-9
- PLUS** one of the following:
- LATED 751.20** ..... 3
- Student Teaching in Latin in Grades 10-12
- LATED 741.20** ..... 2
- Practicum in Latin, Grades 10-12

See the School of Education section of this catalog for descriptions of the **SEDC** and **SEDF** courses (p. 135).

Students who enter with initial or provisional certification in adolescence education in a language other than English will be required to take **LATED 712**, **LATED 713**, and either **LATED 731** or two of the other student teaching/practicum courses that cover grades 7-9 and 10-12 (9-11 credits). Based on a transcript review by the School of Education, such students may be required to complete additional courses in the pedagogical sequence as well. The minimum number of credits for the degree for students who enter with certification in adolescence education is 39.

At the completion of all course work, candidates for the degree are required to take three comprehensive examinations in Latin translation, Latin grammar, and classical culture.

See the School of Education section of this catalog (p. 90) for additional requirements concerning progress standards and benchmarks, as well as a professional teaching portfolio.

### Nonmatriculants

After applicants have been accepted by Hunter College as nonmatriculant students, their records must be evaluated, preferably prior to registration, by the graduate director before they can be admitted to Classics Department courses. Acceptance by Hunter College does not guarantee acceptance by the Department of Classics.

### DOCTOR OF PHILOSOPHY

Several members of the Hunter College program in classics participate in a joint PhD program at the City University Graduate Center. Information concerning degree requirements, courses, etc., may be obtained from Professor Dee Clayman, Executive Officer, PhD Program in Classics, CUNY Graduate Center, 365 Fifth Avenue, New York, NY 10016 or at <http://web.gc.cuny.edu/Classics/>

## COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

**LAT 701 Literature of the Early Republic**  
Early history of the Latin language and the development of Latin literary forms and styles.

**LAT 702 Literature of the Late Republic**  
Selections from authors of the late republic.

**LAT 703 Literature of the Early Empire**  
Selections from authors of the early empire.

**LAT 704 Literature of the Late Empire**  
Selections from authors of the late empire.

**LAT 705 Caesar**  
Selections from the Commentaries on the Civil War and Commentaries on the Gallic War.

**LAT 706 Cicero**  
Selections from the orations, philosophical treatises, and letters of Cicero.

**LAT 707 Vergil**  
Selections from the Aeneid, Eclogues, and Georgics.

**LAT 708 Supervised Reading**  
Independent reading in individual Roman authors or particular literary genres supervised by a faculty member. Prior approval of graduate director required. May be taken twice for credit.

**LAT 709 Latin Composition**  
History of the Latin language, including analysis of Latin grammar and syntax. Translation of short passages from English into Latin.

**CLA 701 The Legacy of Ancient Greece**  
A survey of Greek culture and civilization from the second millennium BCE to the rise of Alexander.

**CLA 702 The Legacy of Ancient Rome**  
A survey of the culture and civilization of Rome from the founding of the city to the reign of Marcus Aurelius.

**CLA 703/704 A Survey of Classical Literature in Translation**  
An analysis, by genre, of the major traditions of classical literature. Students may take either semester for credit.



## CLASSICS

**CLA 705 The Greek and Latin Roots of English**

The influence of Greek and Latin on the development of the English language and its vocabulary. Methods of using etymology as a language teaching tool.

**CLA 706 Supervised Reading**

Independent reading on a particular aspect of ancient Greek or Roman culture, supervised by a faculty member. Prior approval of graduate director required.

**LATED 712 Methods 1: Classroom Organization, Management, and Assessment of Instruction in Latin**

Familiarizes prospective teachers of grades 7-12 with classroom organization patterns, rules and routines appropriate to the teaching of Latin. Emphasis on close work with the design and evaluation of classroom lessons and materials in the context of national and state standards.

*prereq: completion of 18 cr of graduate-level Latin courses; prereq or coreq: SEDF 704, SEDC 710*

**LATED 713 Methods 2: Teaching for Diverse Learners in Latin**

Familiarizes prospective teachers of grades 7-12 with pedagogical approaches for teaching a diverse body of learners, in light of national and state standards, in part by utilizing aspects of diversity in the ancient world. Emphasis on innovative uses of technology, development of instructional units, individualizing for students with special needs, and exploring aspects for a student-centered classroom.

*prereq: LATED 712, SEDF 703; prereq or coreq: SEDF 705  
30 hrs plus 36 hrs fieldwork  
2 cr*

**LATED 731 Student Teaching in Latin, Grades 7-12**

Teacher candidates complete 30 days of student teaching at grades 7-9 and 30 days at grades 10-12 under the supervision of a Hunter College faculty member in a New York City school selected by the college. Students will further develop their skills in the delivery of instruction and will assume significant responsibility for classroom instruction and management.

*prereq: LATED 713; prereq or coreq: SEDF 706  
30 hrs, 60 days student teaching plus workshops and conferences  
5 cr*

**LATED 741.10 Practicum in Latin, Grades 7-9**

Supervised practicum for teachers of Latin in grades 7-9. Students will continue to develop and refine classroom expertise in curriculum development, delivery of instruction, and assessment of student learning. Students who take **LATED 741.10** must also take either **LATED 751.20** or **LATED 741.20**

*prereq: LATED 713;  
prereq or coreq: SEDF 706  
30 hrs plus conferences  
2 cr*

**LATED 741.20 Practicum in Latin, Grades 10-12**

Supervised practicum for teachers of Latin in grades 10-12. Students will continue to develop and refine classroom expertise in curriculum development, delivery of instruction, and assessment of student learning. Students who take **LATED 741.20** must also take either **LATED 751.10** or **LATED 741.10**.

*prereq: LATED 713; prereq or coreq: SEDF 706  
30 hrs plus conferences  
2 cr*

**LATED 751.10 Student Teaching in Latin in Grades 7-9**

Teacher candidates complete 30 days of student teaching at grades 7-9 under the supervision of a Hunter College faculty member in a New York City school selected by the college. Students will further develop their skills in the delivery of instruction and will assume significant responsibility for classroom instruction and management.

*prereq: LATED 713; prereq or coreq: SEDF 706. Students who enroll in LATED 751.10 must also complete LATED 751.20 or LATED 741.20  
30 hrs, plus 30 days and conferences, 3 cr*

**LATED 751.20 Student Teaching in Latin in Grades 10-12**

Teacher candidates complete 30 days of student teaching at grades 10-12 under the supervision of a Hunter College faculty member in a New York City school selected by the college. Students will further develop their skills in the delivery of instruction and will assume significant responsibility for classroom instruction and management.

*prereq: LATED 713; prereq or coreq: SEDF 706. Students who enroll in LATED 751.20 must also complete LATED 751.10 or LATED 741.10  
30 hrs, plus 30 days and conferences 3 cr*

*See the School of Education section of this catalog for information about required grades in student teaching and practicum courses.*

## COMPUTER SCIENCE

**Department Office:** 1008 North Building;  
(212) 772-5213

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Virginia.teller@hunter.cuny.edu

**Website:** <http://www.compsci.hunter.cuny.edu/>

## FACULTY

**Daniel I. A. Cohen, Professor;** PhD, Harvard; Combinatoric Algorithms, Theory of Computability, Computer Law

**Susan L. Epstein, Professor;** PhD, Rutgers; Artificial Intelligence, Knowledge Representation, Machine Learning

**Constantin V. Negoita, Professor;** PhD, Bucharest; Fuzzy Logic, Artificial Intelligence

**William Sakas, Assistant Professor;** PhD, CUNY; Computational Linguistics, Cognitive Models of Natural Language Acquisition

**Cullen R. Schaffer, Associate Professor;** PhD, Rutgers; Machine Learning, Data Analysis, Artificial Intelligence

**Eric Schweitzer, Lecturer;** MA, SUNY (Stony Brook); Computer-aided Language Learning, Logic

**Subash Shankar, Assistant Professor;** PhD, Minnesota; Software Engineering, Formal Methods

**Ioannis Stamos, Assistant Professor;** PhD, Columbia; 3-D Computer Graphics, Image Processing

**Virginia Teller, Professor;** PhD, NYU; Artificial Intelligence, Natural Language Processing

**Stewart N. Weiss, Associate Professor;** PhD, NYU; Software Testing, Computability Theory

**Christina M. D. Zamfirescu, Professor;** PhD, Aachen; Graph Theory and Algorithms, Operations Research

## MASTER OF ARTS

An MA in computer science is not currently offered at Hunter College, but the department participates in the PhD program in computer science through the CUNY Graduate School and University Center. For further information, call the PhD program in computer science at (212) 817-8190 or visit the website <http://web.gc.cuny.edu/Computerscience/>.

