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Since 1937, Queens College has dedicated itself to excellence in the liberal arts and sciences and is proud of its history as one of the campuses of the City University of New York entrusted with the mission of teaching, research, and public service on both the undergraduate and graduate levels. The College serves as a center for the region’s intellectual and cultural life, as well as its social and economic development.

Graduate education and research are essential elements of Queens College’s mission, and the College’s distinguished faculty are actively engaged in instruction and research encompassing both the national and international arenas. In recognition of their excellence, the faculty receive over $10 million annually in funded research.

Queens College offers Master’s Degrees and Advanced Certificates in close to 50 disciplines, and is also a major participant in more than 20 Ph.D. programs offered by the City University’s Graduate Center. As a research center, Queens is equipped with research science laboratories that serve over 200 doctoral candidates actively pursuing their research at Queens under the supervision of our faculty.

Graduate education thrives in the College’s environment of intellectual exchange. Here, disciplines are taught, examined, and advanced, as ideas are explored with the rigor and elucidation provided by varied cultural perspectives. Our students acquire first-rate professional skills and, what is most important, the necessary intellectual and critical abilities to meet the challenges of tomorrow.

Russ Hotzler
QUEENS COLLEGE  
CITY UNIVERSITY OF NEW YORK  

Russell K. Hotzler, B.S., M.S., Ph.D.  
Interim President  

Evangelos John Gizis, B.S., M.S., Ph.D.  
Interim Provost and Senior Vice President for Academic Affairs  

Acting Vice President for Institutional Development  

M. Hratch Zadoian, M. Phil.  
Acting Vice President for Finance and Business  

Philip M. Anderson, B.S., M.S., Ph.D.  
Acting Dean of the Faculty of the Division of Education  

Burton Backner, B.A., Ph.D.  
Dean of Students  

Marten den Boer, B.A., M.A., Ph.D.  
Interim Associate Provost for Academic Planning and Programs  

Robert Engel, B.S., Ph.D.  
Assistant to the Provost for Graduate Studies  

Tamara S. Evans, M.A., Ph.D.  
Acting Dean of the Faculty of the Division of Arts and Humanities  

Donald M. Scott, B.A., M.S., Ph.D.  
Dean of the Faculty of the Division of Social Sciences  

Thomas C. Strekas, B.A., M.A., Ph.D.  
Acting Dean of the Faculty of the Division of Mathematics and Natural Sciences  

Judith Summerfield, B.A., M.A., Ph.D.  
Acting Dean of Undergraduate Studies and Retention  

GRADUATE STUDIES AT QUEENS COLLEGE  
Graduate Studies Office  718-997-5190  
Graduate Admissions  718-997-5200
FALL 2002

August 30 – Friday
First day of Fall classes

September 2 – Monday
Labor Day – College closed

September 6-8 – Friday–Sunday
No classes or related events scheduled

September 15-16 – Sunday–Monday
No classes or related events scheduled

September 17 – Tuesday
Classes will follow a Monday schedule

October 14 – Monday
Columbus Day – College closed

October 16 – Wednesday
Classes will follow a Monday schedule

November 28-30 – Thursday–Saturday
Thanksgiving recess – College closed

December 15 – Sunday
Last day of classes

December 16–23 – Monday–Monday
Final Examinations

SPRING 2003

January 27 – Monday
First day of Spring classes

February 12 – Wednesday
Lincoln’s Birthday – College closed

February 17– Monday
Presidents’ Day – College closed

April 15 – Tuesday
Classes will follow a Wednesday schedule

April 16-24 – Wednesday-Thursday
Spring recess

May 15 – Thursday
Last day of classes

May 16-23 – Friday-Friday
Final Examinations

May 26 – Monday
Memorial Day – College closed

EMERGENCY CLOSINGS
Should some emergency necessitate the closing of the College, every effort will be made to provide a timely announcement over the following radio stations:

WINS  1010 AM
WCBS  880 AM, 101.1 FM
WBLS  107.5 FM
WLIR  1190 AM
WFAS  1230 AM, 104 FM
WADO  1280 AM

IMPORTANT NOTICE OF POSSIBLE CHANGES
The City University of New York reserves the right, because of changing conditions, to make modifications of any nature in the academic programs and requirements of the University and its constituent colleges without advance notice. Tuition and fees set forth in this publication are similarly subject to change by the Board of Trustees of the City University of New York. The University regrets any inconvenience this may cause.
Greetings. For those of you who are now or soon will be deciding which graduate school is best for you, Queens College of the City University of New York, a selective public college with a long-standing commitment to graduate education, merits your close consideration. The pages that follow set forth the variety of graduate offerings available to you at Queens. With a campus that includes students from 120 countries speaking 67 different native languages, Queens College is an exciting, cosmopolitan place in which to pursue your graduate education. I hope this Bulletin will help you to make an informed decision about graduate study, and I wish you every success in fulfilling your educational goals.

Founded in 1937, Queens College became part of the City University of New York in 1961. The University is made up of eleven four-year colleges, six community colleges, a law school, and an affiliated medical school. Queens participates extensively in the doctoral programs of the Graduate School and University Center, the unit of the City University offering graduate work at the doctoral level, and has offered Master’s Degree and Advanced Certificate programs since 1948. The College is accredited by the Middle States Association of Colleges and Secondary Schools, is a member of the American Association of Colleges for Teacher Education, and has chapters of Phi Beta Kappa and Sigma Xi.

Queens College is fortunate to have a distinguished faculty that shares a deep commitment to teaching. Many faculty members are national and international leaders in their fields, and recipients of numerous fellowships, awards, and research grants.

In recent years the 75-acre campus has undergone a major renovation. New facilities include the Benjamin S. Rosenthal Library, the centerpiece of the new campus; the Music Building, home to the Aaron Copland School of Music and LeFrak Concert Hall; and the Science Building, housing up-to-date computer and laboratory facilities. Currently, the campus is embarking on a major information technology plan that will bring the College’s computing capacity to the state-of-the-art level.

The Queens College mission statement and its motto, Discimus ut Serviamus – “We learn in order that we may serve” – reflect the goals of the College: to provide affordable access to outstanding Master’s Degree and Advanced Certificate programs; to maintain a learning environment that enriches intellectual development as it expands career opportunities; to contribute to the scholarly and scientific research that informs progress in society; and to serve the larger community.

We invite you to review our Master’s and Certificate offerings. Inquiries about the Graduate Division may be directed to the Office of Graduate Admissions, 718-997-5200, located in Jefferson Hall 105, and the Office of Graduate Studies, 718-997-5190, located in Kiely Hall 811. We would welcome your visit to the campus.

Robert Engel
Assistant to the Provost for Graduate Studies
Queens College first opened its doors in 1937, in the middle of the Great Depression, to students who were mostly immigrants or the children of immigrants. These people came to the College knowing that education was their surest road to a better life.

Today in a world that has grown both smaller and more complex, Queens College retains its international flavor with students from more than 120 nations attending classes here. And, just as before, Queens College is helping these students to be the best they can be and address the problems of a challenging time.

Queens College carries out its responsibilities by providing learning opportunities to the community, taking the word “community” in its broadest sense. The scholarly resources of our world-class faculty and facilities offer students a rich learning environment and a quality education at a reasonable cost. Through postgraduate study at Queens, students may expand their career opportunities by learning new professional skills, fulfill their intellectual needs, and participate in research and scholarship that enrich our society.

Queens College students have been the recipients of many fellowships and awards, and faculty have received numerous national and international fellowships, awards, and research grants.

Graduate programs are offered in the the Aaron Copland School of Music, the Graduate School of Library and Information Studies, the School of Earth and Environmental Sciences, and all academic divisions. The departments and schools of the College are organized into the following divisions with associated departments and schools (Queens College’s area code is 718):

**Arts and Humanities Division** 997-5790
Art 997-5770
Classical, Middle Eastern, and Asian Languages and Cultures 997-5570
English 997-4600
European Languages and Literatures 997-5980
Hispanic Languages and Literatures 997-5660
Linguistics and Communication Disorders 997-2870
Media Studies 997-2950

**The Aaron Copland School of Music** 997-3800

**Education Division** 997-5220
Educational and Community Programs 997-5250
Elementary and Early Childhood Education 997-5300
Secondary Education and Youth Services 997-5150

**Mathematics and Natural Sciences Division** 997-4105
Biology 997-3400
Chemistry and Biochemistry 997-4100
Computer Science 997-3500
Family, Nutrition, and Exercise Sciences 997-4150
Mathematics 997-5800
Physics 997-3350
Psychology 997-3200

**School of Earth and Environmental Sciences** 997-3300

**Social Sciences Division** 997-5210
Accounting 997-5070
Economics 997-5440
History 997-5350
Philosophy 997-5270
Political Science 997-5470
Sociology 997-2800
Urban Studies 997-5130

**Graduate School of Library and Information Studies** 997-3790
Degrees are offered in the following areas: the Master of Arts, the Master of Arts in Liberal Studies, the Master of Arts in Teaching, the Master of Fine Arts, the Master of Library Science, the Master of Science, and the Master of Science in Education. Certificate programs currently accepting students include a Post-Master’s Certificate in Library Science, a Specialist Diploma in School Administration and Supervision, and a Professional Certificate in School Psychology.

Post-baccalaureate Advanced Certificates leading to New York State provisional teacher certification are offered in Elementary Education and Secondary Education in English, French, General Science, Italian, Mathematics, Music, Social Studies, and Spanish. Bilingual certificates are offered in connection with Master’s programs in Counselor Education, School Psychology, and Special Education.

B.A./M.A. Degrees
The Departments of Chemistry and Biochemistry, Computer Science, Philosophy, Physics, and Political Science, and the Aaron Copland School of Music offer to qualified undergraduate students the opportunity to receive combined Bachelor’s and Master’s degrees. Application to the B.A./M.A. program should be made in the upper sophomore or lower junior semester; admission is granted only in the junior year. Full details and application forms can be obtained from the Chair or Graduate Adviser of the department in question.

See page 10 for the list of B.A./M.A. degree programs officially registered under HEGIS codes with the New York State Department of Education (Office of Higher Education & the Professions, Cultural Education Center, Room 5B28, Albany, NY 12230; 518-474-5851).

Students are advised that enrollment in other than registered or approved programs may jeopardize their eligibility for certain student aid awards.

Master’s Degrees
Page 10 lists all the Master’s degrees that are offered by the College, along with their HEGIS and New York State Education codes.

Certificate Programs
The certificate programs offered by the College are listed on page 10, along with their HEGIS and New York State Education codes.

Doctoral Programs
Many members of the Queens College faculty participate in the doctoral programs of the City University of New York, which are coordinated through the Graduate School and University Center located in midtown Manhattan. In addition to awarding the Ph.D. degree, the Graduate Center offers many services for graduate students, including library and computer research facilities.

The following Ph.D. degrees are offered: Anthropology, Art History, Biochemistry, Biology, Biomedical Sciences, Business, Chemistry, Classics, Comparative Literature, Computer Science, Criminal Justice, Earth and Environmental Sciences, Economics, Educational Psychology, Engineering, English, French, Germanic Languages and Literatures, Hispanic and Luso-Brazilian Literatures, History, Linguistics, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Speech and Hearing Sciences, and Theatre. The Ph.D. and M.D./Ph.D. degrees are offered in Biomedical Sciences and the D.S.W. is offered in Social Welfare. The D.M.A. is offered in Music Performance. Advanced doctoral work in Biochemistry, Biology, Chemistry, Computer Science, Geology, Physics, and Psychology is given at Queens.

The first 30 credits of graduate work at the Master’s level constitute the first year of the doctoral program in some departments. Financial assistance may also be available. For further information, contact the appropriate department at Queens or the Graduate Center, 365 Fifth Avenue, New York, NY 10016-4309.

Requirements
Students are responsible for meeting degree requirements in force at the time of their first enrollment as matriculated students. Changes to the structure of a program will be applied in such a way as to avoid increasing the number of credits required of students who have started taking courses in the program. If degree requirements are changed following matriculation, the student has the option of satisfying original or new requirements.

Students who are dismissed for academic reasons may be subject to new regu-
**MA/MA DEGREES**

<table>
<thead>
<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry &amp; Biochemistry</td>
<td>1905</td>
<td>02798</td>
</tr>
<tr>
<td>Computer Science</td>
<td>0701</td>
<td>19797</td>
</tr>
<tr>
<td>Music</td>
<td>1004</td>
<td>02733</td>
</tr>
<tr>
<td>Philosophy</td>
<td>1509</td>
<td>02772</td>
</tr>
<tr>
<td>Physics</td>
<td>1902</td>
<td>02787</td>
</tr>
<tr>
<td>Political Science</td>
<td>2207</td>
<td>76096</td>
</tr>
</tbody>
</table>

**MASTER'S DEGREES**

Master’s degrees are offered in these officially registered graduate programs, listed with their HEGIS and New York State Education codes.

**MASTER OF ARTS DEGREES**

<table>
<thead>
<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Linguistics</td>
<td>1505</td>
<td>85420</td>
</tr>
<tr>
<td>Art History</td>
<td>1003</td>
<td>02728</td>
</tr>
<tr>
<td>Audiology*</td>
<td>1220</td>
<td>77460</td>
</tr>
<tr>
<td>Biology</td>
<td>0401</td>
<td>02698</td>
</tr>
<tr>
<td>Chemistry &amp; Biochemistry</td>
<td>1905</td>
<td>02796</td>
</tr>
<tr>
<td>Computer Science</td>
<td>0701</td>
<td>02705</td>
</tr>
<tr>
<td>Economics*</td>
<td>2204</td>
<td>02812</td>
</tr>
<tr>
<td>English</td>
<td>1501</td>
<td>02762</td>
</tr>
<tr>
<td>French</td>
<td>1102</td>
<td>02737</td>
</tr>
<tr>
<td>Geology</td>
<td>1914</td>
<td>02801</td>
</tr>
<tr>
<td>History</td>
<td>2205</td>
<td>02814</td>
</tr>
<tr>
<td>Italian</td>
<td>1104</td>
<td>02744</td>
</tr>
<tr>
<td>Latin Am. Area Studies*</td>
<td>0308</td>
<td>02693</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1701</td>
<td>02780</td>
</tr>
<tr>
<td>Media Studies</td>
<td>0601</td>
<td>02703</td>
</tr>
<tr>
<td>Music</td>
<td>1004</td>
<td>02731</td>
</tr>
<tr>
<td>Physics</td>
<td>1902</td>
<td>02784</td>
</tr>
<tr>
<td>Political Science &amp; Govt.*</td>
<td>2207</td>
<td>02816</td>
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<tr>
<td>Psychology</td>
<td>2001</td>
<td>02806</td>
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Psychology: Clinical Behavioral Applications in Mental Health Settings

<table>
<thead>
<tr>
<th>Code</th>
<th>NYS Ed. Code</th>
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<tbody>
<tr>
<td>2099</td>
<td>90172</td>
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<tr>
<td>2208</td>
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<td>1105</td>
<td>02748</td>
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<td>0815</td>
<td>00 26448</td>
</tr>
<tr>
<td>2214</td>
<td>02820</td>
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</tbody>
</table>

**MASTER OF ARTS IN LIBERAL STUDIES**

<table>
<thead>
<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>4901</td>
<td>82492</td>
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</table>

**MASTER OF ARTS IN THE SOCIAL SCIENCES**

<table>
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<tr>
<th>Program</th>
<th>HEGIS Code</th>
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<tbody>
<tr>
<td>2201</td>
<td>20082</td>
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**MASTER OF FINE ARTS**

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<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
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<tbody>
<tr>
<td>Studio Art</td>
<td>1002</td>
<td>02726</td>
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**MASTER OF LIBRARY SCIENCE**

<table>
<thead>
<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
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</thead>
<tbody>
<tr>
<td>Library Science</td>
<td>1601</td>
<td>02778</td>
</tr>
<tr>
<td>School Media Specialist-Library</td>
<td>0899.01</td>
<td>26411</td>
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**MASTER OF SCIENCE DEGREES**

<table>
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<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
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<tbody>
<tr>
<td>Accounting &amp; Info. Systems</td>
<td>0502.00</td>
<td>22642</td>
</tr>
<tr>
<td>Nutrition &amp; Exercise Sciences</td>
<td>1299.30</td>
<td>22412</td>
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**MASTER OF ARTS IN TEACHING (MS)**

Early Childhood (Birth–Grade 2)

<table>
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<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
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<tbody>
<tr>
<td>Early Childhood</td>
<td>0823.00</td>
<td>26434</td>
</tr>
<tr>
<td>Childhood Education (Grades 1–6)</td>
<td>0802.00</td>
<td>26436</td>
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**MASTER OF SCIENCE IN EDUCATION**

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<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
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<tbody>
<tr>
<td>Art, K through 12</td>
<td>0831.00</td>
<td>26446</td>
</tr>
<tr>
<td>Counselor Education</td>
<td>0826.01</td>
<td>02712</td>
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<tr>
<td>Elementary Education</td>
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<tr>
<td>Early Childhood Education</td>
<td>0823.00</td>
<td>26438</td>
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<tr>
<td>Childhood Education (Grades 1–6)</td>
<td>0802.00</td>
<td>26439</td>
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**MASTER OF SCIENCE IN EDUCATION**

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<tr>
<th>Program</th>
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<tbody>
<tr>
<td>Specialization in Bilingual Education</td>
<td>0899.00</td>
<td>26440</td>
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<tr>
<td>English, 7 through 12</td>
<td>1501.01</td>
<td>26423</td>
</tr>
<tr>
<td>Family &amp; Consumer Educ., K–12</td>
<td>1501.01</td>
<td>26422</td>
</tr>
<tr>
<td>French, 7 through 12</td>
<td>1102.01</td>
<td>26430</td>
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**MASTER OF SCIENCE IN EDUCATION**

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<tr>
<th>Program</th>
<th>HEGIS Code</th>
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</thead>
<tbody>
<tr>
<td>General Science Teaching</td>
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</table>

**CERTIFICATE PROGRAMS**

**POST-BACCALAUREATE ADVANCED CERTIFICATES**

<table>
<thead>
<tr>
<th>Program</th>
<th>HEGIS Code</th>
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<tbody>
<tr>
<td>Art Education</td>
<td>0831.00</td>
<td>26447</td>
</tr>
<tr>
<td>Applied Behavioral Analysis</td>
<td>2299.00</td>
<td>22225</td>
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<tr>
<td>Elementary Education</td>
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<tr>
<td>Early Childhood Education</td>
<td>0823.00</td>
<td>26435</td>
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<tr>
<td>Childhood Education (Grades 1–6)</td>
<td>0802.00</td>
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<tr>
<td>English, 7 through 12</td>
<td>1501.01</td>
<td>26864</td>
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<tr>
<td>Biology, 7 through 12</td>
<td>0401.01</td>
<td>26868</td>
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<tr>
<td>Chemistry, 7 through 12</td>
<td>1905.01</td>
<td>26869</td>
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<tr>
<td>Earth Science, 7 through 12</td>
<td>1917.01</td>
<td>26870</td>
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<tr>
<td>Physics, 7 through 12</td>
<td>1902.01</td>
<td>26871</td>
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<td>Mathematics, 7 through 12</td>
<td>1701.01</td>
<td>26872</td>
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<tr>
<td>French, 7 through 12</td>
<td>1102.01</td>
<td>26865</td>
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<tr>
<td>Italian, 7 through 12</td>
<td>1104.01</td>
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<tr>
<td>Literacy Teacher (Birth–Grade 6)</td>
<td>0830.00</td>
<td>26017</td>
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<tr>
<td>(Grades 5–12)</td>
<td>0830.00</td>
<td>26482</td>
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<tr>
<td>Mathematics, 7 through 12</td>
<td>1701.01</td>
<td>26424</td>
</tr>
<tr>
<td>Music, K through 12</td>
<td>0832.00</td>
<td>26449/50</td>
</tr>
<tr>
<td>Physical Ed., K through 12</td>
<td>0835.00</td>
<td>26414</td>
</tr>
<tr>
<td>School Psychologist</td>
<td>0826.02</td>
<td>02711</td>
</tr>
<tr>
<td>Social Studies, 7 through 12</td>
<td>2201.01</td>
<td>26429</td>
</tr>
<tr>
<td>Spanish, 7 through 12</td>
<td>1105.01</td>
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**MASTER OF SCIENCE IN EDUCATION**

<table>
<thead>
<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
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</thead>
<tbody>
<tr>
<td>School Administrator and Supervisor</td>
<td>Advanced Certificate Program</td>
<td>0828 02714</td>
</tr>
<tr>
<td></td>
<td>(The specialist diploma in Administration and Supervision is offered at both the elementary and secondary school levels.)</td>
<td></td>
</tr>
</tbody>
</table>

**SCHOOL PSYCHOLOGY**

<table>
<thead>
<tr>
<th>Program</th>
<th>HEGIS Code</th>
<th>NYS Ed. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Certificate Program</td>
<td>0826.02</td>
<td>12900</td>
</tr>
<tr>
<td>(This professional certificate program is offered in conjunction with the Master of Science in Education Program.)</td>
<td></td>
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**LIBRARIANSHIP**

<table>
<thead>
<tr>
<th>Program</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Post-Master’s Certificate Program</td>
<td>1601</td>
<td>76018</td>
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lations depending on how long after dismissal the student returns and such other factors as may be taken into account by the Graduate Scholastic Standards Committee.

Please consult the appropriate departmental listing in this Bulletin for specific degree and advanced certificate requirements, including number of semester hours required for the program, mandatory courses, etc.

General requirements are as follows:

**Minimum Grade-Point Average of B (3.0):** All programs must be completed with a minimum average of at least B (3.0). At the completion of the total credits allotted to a program, if a student does not have a 3.0 average and wishes to register for additional courses in order to attempt to raise the grade-point average, permission to do so must be obtained from the Office of Graduate Studies. Such courses must be taken at Queens College. For information on probationary status and dismissal, see page 30.

**Time Limits:** All programs must be completed within the time limits permitted for each degree and advanced certificate program. The time limit for completion of all requirements for the Master of Arts, Master of Arts in Liberal Studies, Master of Arts in the Social Sciences, Master of Fine Arts, Master of Library Science, or Master of Science degree is four years. The time limit for the Master of Arts in Teaching and the Master of Science in Education degree is five years. For time limits for the certificate programs, consult the appropriate departmental listing in this Bulletin. Transfer credits or credits taken as a non-matriculant that have been approved by the department must have been taken within the time limit. Requests for extensions of time must be submitted to the Office of Graduate Studies (Kiely Hall 811).

**Credit Requirement:** The number of credits required for Master’s degree programs varies by program and ranges from 30 to 60. The number of credits required for certificate and diploma programs also varies. Please consult the appropriate departmental listing in this Bulletin for the credits each program requires.

**Thesis and/or Comprehensive Examination Requirement(s):** Consult the appropriate departmental listing in this Bulletin to determine if a thesis and/or comprehensive examination constitutes part of the requirements for the degree or advanced certificate.

### Summer Session
During the Summer the College offers a six-week graduate session during Summer Session II. Graduate courses also may be offered during the earlier four-week Summer Session I. All the College’s academic, recreational, and cultural facilities are available during this time. For graduate courses and other information, see the Summer Session Bulletin, or write to Summer Session, Queens College, CUNY, Flushing, NY 11367-1597.

### Transfer Credits and Permits
In most cases, a maximum of 12 credits of graduate work completed at other institutions may be accepted as transfer credit, if approved by the appropriate department(s) and taken within the time limit specified for the degree or certificate program. The credits may have been part of a completed degree program.

Matriculated students seeking transfer credit for graduate work taken at another institution must submit the request for evaluation of such credit no later than the end of their second semester in attendance.

Only the following grades will be accepted for transfer credit: A+, A, A–, B+, B, and B–. (In cases where a student obtained a P grade, and the P is equivalent to no lower than a B–, the grade may be transferred if approved by the appropriate department.) Transfer credit grades are not counted in the cumulative average, however. (See Important Note at end of this section.)

Some graduate programs will not accept courses for credit where the grade is below B. Check the departmental listing in this Bulletin.

New graduate matriculants who wish to transfer credits must file a departmentally approved Advanced Standing Form in the Graduate Admissions Office (Jefferson Hall 105).

Currently enrolled matriculants who wish to take courses at another institution must complete a Permit Form indicating departmental permission for the courses to be taken. The Permit Form acts as an agreement to allow a student to transfer a course or courses to Queens College. **There is no guarantee that courses taken at other institutions without prior approval will be accepted for credit.** Permit Forms are available in the Office of the Registrar, Jefferson Hall, Room 100.

To be eligible for a permit to enroll outside Queens College in a course or courses that pertain to a graduate degree or certificate program as either prerequisite(s) for the program or as transfer credit, the student must:

1. be matriculated in a Graduate degree or Certificate program;
2. have obtained the approval of the departmental Graduate Adviser for the permit; and
3. have registered for and completed with a passing grade at least one undergraduate prerequisite course or one graduate course as part of the graduate program at Queens College; except that, if the student is in the first semester of attendance, he or she must register in at least one graduate or undergraduate course at QC while simultaneously registering elsewhere for the permit course(s).

Students who wish to register for courses at other units of the City University of New York must complete a Permit Form and must register and pay for all City University tuition and fees at Queens College in advance of registering at another unit of CUNY. Please consult each semester’s Class Schedule or the Office of Graduate Admissions (Jefferson Hall 105, 997-5190) for information on the proper procedure.

Students who have taken an entire semester’s program on permit at an institution other than a CUNY college must pay a re-entry fee and file a graduate re-entry application.

**Important Note:** Grades for courses taken at other institutions and accepted as transfer or permit credit are not counted in the cumulative average computed for QC courses. No advanced standing or transfer credit may be posted to the QC record unless an official transcript certifying to the completion of the work has been submitted.
Thesis or Project
A student matriculated in a department that requires a Master’s thesis or a research paper or other project must submit the manuscript in as many copies as required to the departmental adviser for approval. The title page of the manuscript must bear the following description: “Submitted in partial fulfillment of the requirements for the degree of Master of Arts (or Master of Arts in Liberal Studies, or Master of Arts in the Social Sciences, or Master of Library Science, or Master of Science, or Master of Science in Education) in (Department) in the Graduate Division of Queens College of the City University of New York, date.”

After the manuscript has been approved, the student must arrange for binding. A $25 binding fee, for which a receipt will be issued, is payable at the Bursar’s window. The receipt and two copies of the manuscript must be taken to the Catalogue Department, Rosenthal Library, Room 201. One bound copy of the manuscript is retained by the Library and becomes part of its collection. A second bound copy is for the academic department. If desired, a third copy may be submitted, which, when bound, will become the property of the student.

Appeals
For relief from or waiver of regulations of the Graduate Division, students may petition the Office of Graduate Studies. Appeals of the decision of the Office may be directed to the Graduate Scholastic Standards Committee.
Graduate students are encouraged to take advantage of the numerous services and facilities offered by Queens College. There is something for everyone: students can receive career and personal counseling; become involved in the governing of the College by joining the Academic Senate; attend musical and theatrical events; or simply enjoy a swim in the pool in FitzGerald Gymnasium.

STUDENT GOVERNMENT

Academic Senate
The Academic Senate is the chief legislative body of the College, responsible, subject to the Board of Trustees, for the formulation of policy relating to the admission and retention of students, curriculum, granting of degrees, campus life, and the nomination of full deans. It also establishes the rules governing the use of the College name by organizations and clubs.

The Academic Senate Charter provides for a membership of 60 faculty and 30 students. In addition, there are ex-officio members, including the President and other administrative officers of the College, who have all the privileges of membership except voting and holding office.

Faculty representatives serve for two years; student representatives for one year. Elections take place during the Spring semester. Student representatives are elected by the student body from among undergraduate and graduate students, according to standards of eligibility as determined by the Academic Senate.

All full-time members of the faculty with the rank of professor, associate professor, assistant professor, instructor, or lecturer may vote for the faculty representatives.

Much of the Senate’s work is done by committees composed of an equal number of students and faculty. These committees prepare proposals for the Senate in such areas as curriculum, scholastic standards, and campus affairs. All students and the instructional staff may serve on these committees. Half the membership of each committee is elected yearly by the Senate at its regular December meeting. Among the Senate committees are the Graduate Scholastic Standards Committee and the Graduate Curriculum Committee.

Graduate Scholastic Standards Committee
The Committee is made up of faculty and graduate students representing each division of the College. It constitutes a board of final appeal for students requesting relief from scholastic regulations and requirements of the Graduate Division. Such requests initially must be directed to the Office of Graduate Studies.

Graduate Curriculum Committee
All proposals to change the present curriculum of the Graduate Division, including proposals for new programs, courses, changes in requirements and prerequisites, etc., must be presented to the Graduate Curriculum Committee for review and approval prior to submission to the Academic Senate. The Committee is composed of faculty and graduate students representing each division of the College.

STUDENT SERVICES

Graduate Student Association
Student Union, Room 319J; 793-8321

The Graduate Student Association (GSA) represents the interests of all graduate students at Queens College. The GSA government is divided into an executive branch (the GSA Executive Board) and a legislative branch (the Graduate Student Congress), which is composed of one or more delegates from each department. News of interest to graduate students is published in the GSA Newsletter, which is mailed periodically to all graduate students. GSA offers free evening coffee service; social, academic, and professional gatherings; and free income tax return preparation help.

Graduate Student Organizations
The Graduate Student Association and Graduates United serve all students. Below are organizations of interest to students in specific fields:

- Graduate Behavioral Psychology Club
- Graduate Biology Club
- Graduate Counselor Education Club
- Graduate Education Administration and Supervision Club
- Graduate Elementary Education Club
- Graduate Family, Nutrition, and Exercise Sciences Association
- Graduate Fine Arts Club
- Graduate History Club
- Graduate LEAP Association
- Graduate Library and Information Studies Student Association
- Graduate Media Club
- Graduate Physics Beyond the Edge Club
Graduate School Psychology Club
Graduate Secondary Education Club
Master of Arts and Liberal Sciences

Graduate Awards
Two annual prizes, each of $500, are awarded to recognize outstanding scholarship and exceptional research or accomplishment in the creative arts and humanities, and the mathematical, physical, biological, and social sciences. Students who are nominated by a faculty member and are graduating with a Master of Arts, Master of Arts in Liberal Studies, Master of Fine Arts, Master of Library Science, Master of Science, or Master of Science in Education degree are eligible. Many departments also provide specialized awards for graduating students.

Queens College Foundation Graduate Fellowship Award
The College offers to qualified students the opportunity to apply for a fellowship award that is equivalent to all or half the cost of in-state tuition. Awards will be determined through an in-depth consideration of the following criteria:

1. Undergraduate grade-point average.
2. Two letters of recommendation.
3. A 250-word statement explaining why you believe you are qualified for the fellowship. Your statement should address items such as the quality and scope of your academic background, your specific areas of interest, and your experiences both in and out of school.

There is no residency requirement for the fellowship award.

A student selected to receive the award must be matriculated in a graduate degree or certificate program and must register for a minimum of six graduate credits in the semester the award is granted.

The statement and letters of recommendation must be submitted to the Office of Graduate Admissions no later than the closing date each year. For more information, including closing dates, contact the Office of Graduate Studies (997-5190).

Veterans and Military Service Information
Queens College is an approved training institution for veterans, disabled veterans, and children of deceased or totally and permanently disabled veterans. Students who believe they are eligible for benefits can be certified to the Veterans Administration by going to Jefferson Hall, Room 100, at the time of registration. Students must notify the certifying official of all changes in their credit load to ensure their eligibility for future benefits.

OFFICE OF THE DEAN OF STUDENTS
B Building, 1st Floor
997-5500; fax 997-5508

The Division of the Dean of Students provides a variety of services designed to assist students outside of the classroom. The division’s professional staff is committed to facilitating emotional, psychological, social, and intellectual growth and development within the student population. The various offices of the division are noted below.

Counseling and Advisement Center
B Building, 1st Floor; 997-5420
Hours: Monday-Friday, 9:00 am-5:00 pm

Students have to deal with a variety of personal, emotional, and interpersonal issues that can affect their general college adjustment. Many students have found it helpful to discuss their current life situations and plans with a staff member of the Counseling and Advisement Center.

Students will be seen on an individual basis. There is no fee for services. Students can make appointments on their own or may be referred by an adviser, an instructor, or an administrative office. The staff is also ready to consult with faculty members and departments concerned with student needs or problems.

The staff, which includes certified psychologists, sees students for personal counseling as few as one or two sessions to as long as one or two semesters. The contact may involve referral to other College services such as Career Development, the Office of Special Services, the Graduate Scholastic Standards Committee, and Scholarship Opportunities, or to various community resources including longer-term counseling centers and practitioners.

All counseling services are strictly confidential.

Career Development & Internships
B Building 213
997-4465; Fax 997-4463
Hours: Monday-Thursday, 9:00 am to 4:00 pm; Friday, 9:00 am to 12 noon;
Evening hours: Wed. until 7:30 pm when classes are in session; Summer evening hours by appointment

The Career Development Office is the student’s link between the academic and the business and professional worlds. In addition to one-on-one career counseling, many other resources are available:

- Counseling on how to select a career.
- Computer-assisted counseling and information to explore different graduate schools and part-time job placement for current students who wish to develop practical work experience while earning money.
- Internship referral and assistance.
- Workshops on career exploration for students who are in the process of defining their career goals.
- Job-search counseling for graduating students who are preparing to enter the work force.
- Summer job placement as well as summer job referrals.
- Workshops on resume writing, interview techniques, and job-search strategies where students are assisted in developing skills to organize their educational and work experience to prepare for the transition from college to work.
- On-campus recruitment for graduating students through an extensive campus interview program.
- Full-time job information for graduating students and recent alumni.
- Information on recruiting organizations, employer and career directories, current job vacancy listings, and an array of other career resources.
- Credential Services: For a modest fee, students can maintain a file where recommendation letters from professors can be stored and forwarded to graduate schools and prospective employers to support applications.
- An Internet-based internship, career, and job information system (QC CAREERLINK).

An internship is a supervised education program that integrates classroom learn-
ing with work experience. The program provides students with an individualized, structured, career-exploration plan that includes:

- Career counseling
- Resume preparation
- Interviewing techniques
- Job-search strategies
- Work experience
- Professional enrichment

The program is administered by the Office of Career Development and Internships in cooperation with the academic departments that sponsor internships.

The Student Union

The Student Union is the hub of campus life. The building contains major social, cultural, recreational, and educational facilities and services that add greatly to the student’s enrichment, development, and pleasure. Over 45 student organizations call the Student Union home.

Various eating areas are available to suit every need. A cafeteria offering a full range of hot and cold meals is open for breakfast, lunch, and dinner. The Grill, a full-service restaurant, is open for lunch. The Cellar Entertainment Lounge opens for lunch and remains open through the evening, offering pizza, snacks, soft drinks, and excellent entertainment.

Other services include a copy center, game room, an underground parking facility, and a 24-hour ATM. Catering facilities, meeting rooms, and concert halls for lectures, movies, music performances, conferences, and dinner and dancing are also available.

The Student Union is financed by Student Union fees and revenue-producing enterprises. It is operated by the QC Student Services Corporation.

Dining Hall

The Dining Hall contains cafeterias, a faculty club and lounge, committee lunchroom, and rooms for formal use.

The Cafe is the largest of the dining rooms. Complete breakfast, lunch, and dinner are served here. Choose from Pizza Pasta Pizzazz, QC Chicken Company, Campus Corner Charbroiled Burgers, David’s NY Sandwich Shop, or Friendly’s Ice Cream Shoppe. An ATM machine is also located in this room.

The Food Court has three serving areas and is open for breakfast, lunch, and dinner. It is home to Panda House, which serves a variety of Chinese takeout food. Just a Nosh is a special area that serves only Kosher food under strict rabbinical supervision. Broadway Cafe is a sandwich/dessert shop that serves fresh bagels, muffins, cookies, pastries, and flavored coffees.

The Patio Room is home to City Lunch, which features gourmet sandwiches, soups, salads, and vegetarian specialties. In addition, the Sushi Spot serves sushi freshly made by our own sushi chef, and the Cactus Grill offers homemade southwestern cuisine. The Bring Your Own Lunch Club (BYOL) is located here for faculty and staff dining.

Office of Special Services

Kiely Hall 171
997-5870; fax 997-5895
Hours: 8:00 am to 4:00 pm

The Office of Special Services provides a full range of services to enhance educational and vocational opportunities for students with disabilities. These services include orientation, alternative registration, counseling, academic advisement, vocational testing, peer counseling, and career development activities.

In addition to serving students on campus, the Office of Special Services offers a program for homebound students via a two-way telephone conference system.

The Child Development Center at Queens College

Kiely Hall 245; 997-5885
www.qc.edu/qcchild
Hours: Monday-Thursday, 8:00 am to 8:00 pm; Friday, 8:00 am to 4:00 pm
Open Both Summer Sessions

The Child Development Center provides quality child care and an early childhood education program for children (30 months to 6 years) of QC students. There is also a school-aged care program for students aged five to nine from 4:00 to 8:00 pm. Students are able to register their children according to their own class/study schedule. Fees are based upon the number of hours each child is registered. The Center is licensed by the NYC Department of Health and staffed by professional early childhood educators.

FitzGerald Gymnasium

The FitzGerald Gymnasium offers many physical education facilities. The main gymnasium measures 225 feet by 194 feet. There are also an auxiliary gymnasium, individual sports areas, a swimming pool, classrooms, dance studios, and applied physiology research laboratories. Adjacent to the gymnasium are outdoor facilities, which include 18 composition tennis courts, a quarter-mile track, ball fields, and other teaching recreation facilities.

In 1991 the soccer fields, lacrosse field, and baseball field were upgraded as part of the construction of a parking facility. An air-supported structure over six composition tennis courts has recently been completed.

Health Service Center

FitzGerald Gym 204; 997-2760
www.qc.edu/Health_Services
Hours: Monday-Friday, 9:00 am to 5:00 pm; there are no evening hours at this time.

The Health Center is the campus’s health ambulatory/infirmary site. A registered nurse provides walk-in services to students, faculty, and staff who are injured or require medical assistance.

Free MMR, Hepatitis B, and flu clinics are scheduled during the year for students and faculty who meet the criteria for these services. The Center works to ensure that all students meet the New York State Health Immunization mandate Public Health Law 2165.

Education, assistance, and referrals are provided by the Center’s nurse and health and wellness adviser on HIV/AIDS, STDs, substance and alcohol abuse, safer sex, nutrition, hypertension, cardiovascular disease, and other health and wellness issues.

Scales for height and weight, eye tests for drivers, as well as blood pressure monitoring, health care referrals, first aid supplies, and feminine hygiene products are available. Assistance for disabled students is offered, and dressing changes can be provided. Evaluations of emergencies are made for the Emergency Medical Services of New York. Health-related reading materials and health insurance application forms are available in the reception area.

Students’ health records and consultations are strictly confidential. The staff is
especially sensitive to the needs of students, and preventive health care is a high priority.

International Student Services
B Building 211; 997-4440

The International Student Services office assists international students in obtaining student visa and immigration status so they may legally enter and temporarily stay in the United States for the purpose of studying at the College. The office provides ongoing student visa/immigration advisement; issuance of U. S. government documents for the purpose of obtaining and maintaining student visa/immigration status; and work authorizations to eligible students holding student visa/immigration status. Advisement and information on registration procedures, campus life, the U. S. higher education system, and cross-cultural adjustment issues are provided.

Campus Ministry: Hillel, Protestant, Catholic, and Greek Orthodox

The Queens College Campus Ministers is an association of the Hillel Center for Jewish Life, Protestant, Catholic, and Greek Orthodox ministries on campus. Its purpose is to foster harmony among religious traditions and to join in campus efforts to promote spiritual and ethical growth. The campus ministers serve as a resource for religious and ethical information and insight for the academic and the wider Queens community.

The Hillel Center for Jewish Life (Student Union 206; 793-2222; fax 793-2252; www.qchillel.org) provides religious, cultural, and social programming, counseling, and outreach for Jewish students, faculty, and staff.

The Protestant Center (Student Union 203; 997-3979, 261-1550) welcomes students, faculty, and staff from the various Protestant denominations for worship and Bible study, counseling, and a variety of educational programs.

The Catholic Newman Center (Student Union 207, 208, 793-3130, 520-7823; e-mail: catholic_center@qc.edu or frpaw@yahoo.com) provides a ministry of worship and pastoral outreach to the Catholic community on campus.

The Greek Orthodox Center (Student Union 209, 997-5251) provides religious, cultural, and social programming, counseling, and outreach for Greek Orthodox students, faculty, and staff. It also provides information on worship and Bible study. All are welcome to participate. For information on religious matters, call the Very Reverend Cleopas Sprongylis, 458-5251. For other matters, call the Byzantine and Modern Greek Studies Office, Jefferson Hall 301, 997-4520.

FACILITIES

Colden Center for the Performing Arts

Colden Center contains the 476-seat Queens College Theatre and the 2,143-seat Colden Auditorium, a TV center, an academic wing – Karol Rathaus Hall (Drama, Theatre, and Dance) – and many other facilities for instruction, practice, production, and performance in the arts. A Concert Series, Dance Series, Contemporary Events, and Children’s Theatre Events, featuring internationally renowned artists, are offered annually, as well as many special events.

The Music Building

The Music Building houses the Aaron Copland School of Music. This structure includes orchestral, ensemble, and choral rehearsal rooms and a professional-quality recording facility. Its 489-seat Samuel J. and Ethel LeFrak Concert Hall is designed for almost any musical performance.

Library

The Benjamin S. Rosenthal Library, which opened in 1988, is the centerpiece of the campus. The Library maintains a carefully selected collection of print and non-print materials, including 753,000 books and 3,260 current print and electronic periodicals, as well as a growing collection of multimedia in its Media Center. There is also an extensive collection of microform material. In addition, the Library is a depository for many U. S. government publications. The reference area contains materials for research on a wide range of social science, humanities, education, and science topics.

The Art Library and Art Exhibition Center are on the sixth floor. In addition to books and periodicals, the Art Library has over 67,740 slides and pictures. The Music Library, located in the east wing of the Music Building, contains scores and audio recordings as well as books and journals.

The Libraries offer a constantly expanding number of electronic resources and services. Resources include online databases, electronic journals and reference sources, electronic books, and internet resource options available from workstations on all floors of the Library. Electronic services include off-campus access to CUNY+ Web (the web version of CUNY’s Online catalog) as well as many of the Library’s electronic resources; online renewal of borrowed books; interlibrary loan service that allows for e-mail requests and document delivery; the option of electronic reserve for required readings; word processing at selected workstations; and printing capabilities from all workstations.

At the same time, the Libraries continue to provide traditional in-house services: reference; on-site interlibrary loan; a reserve library for print and media reserves; instructional services; multimedia center; education curriculum center; services for students with disabilities; and photocopying capabilities.

The Rosenthal Library’s Archival Center houses a selected group of legislative leader Benjamin S. Rosenthal’s Congressional papers, New York State Assemblyman Saul Weprin’s papers, other special collections, and College records dating from 1935. The Louis Armstrong Archives, also housed here, are open for scholarly consultation. Contact Michael Cogswell at 997-3670 for an appointment.

More information on the Queens College Libraries departments, resources, and services can be found on the Libraries homepage (www.qc.edu/Library).

Office of Information Technology

The Office of Information Technology provides a full range of academic and administrative computing and multimedia support to the College community. OIT support areas include operation of computer laboratories and classrooms; design and maintenance of the campuswide computing infrastructure; maintenance of the College’s presence on the Internet; delivery and presentation of media materials for classroom instruction; and coordination of satellite teleconferences. In addition, OIT operates the interactive video classroom that is affiliated with CUNY’s Distance Learning/Media Distribution Project. OIT offices are located in I
Building and Kiely Hall, with user facilities in I Building, the Dining Hall Building, the Science Building, Kiely Hall, and Rosenthal Library.

**Microcomputer Facilities:** Extensive microcomputer laboratory and classroom facilities managed by OIT are located on the second floor of I Building, in the Science Building, Kiely Hall, and the Library. In total, OIT facilities provide more than 500 IBM, IBM-compatible, and Apple Macintosh computers for classroom and open laboratory use. A wide range of software is available.

Most OIT labs are open seven days and four evenings a week. For current lab hours, check the OIT website (www.qc.edu/OIT/), postings in each lab, or call the labs in I Building (997-5967) or the Science Building (997-3518).

**Electronic Classrooms:** Located in Kiely Hall 226, the Learning Center has interactive audio facilities and advanced computer classrooms where students meet for instruction in a variety of academic areas. The Learning Center also provides playback services for students who wish to review audiotaped lecture materials. The Interactive Video classroom facility, located in Kiely Hall 115, can be networked with similar classrooms at other CUNY colleges to participate in distributed teaching, distance learning, conferencing, and multimedia distribution.

**Website:** OIT operates the College web server (http://www.qc.edu) that has information on admissions, registration requirements, class schedules, alumni, scholarships, study abroad, and student services, as well as graduate and undergraduate academic programs and the Weekend College. Information is also included on computing and library facilities, the academic calendar, and special events and entertainment at the College and at Colden Center. Many academic departments have webpages with details of their offerings. In addition, one can find out about special research and academic programs, and check employment opportunities. There is also a wealth of detail at www.satchmo.net, a site devoted to Louis Armstrong.

**Computing Resources:** Centralized time-shared computing facilities operated by OIT include a Compaq Computer Corporation AlphaServer 4100 5/466 running UNIX and providing web server functions. A wide range of academic programming languages, statistical packages, graphics software, and application software is available.

Major administrative systems include QUASAR, a City University-provided student information system; POS, a sales system that supports the Bursar’s Office; and the Alumni/Development information system. An interactive voice response system allows students to register for classes by phone.

**Communications:** OIT operates several data communications networks. The major on-campus local area network (LAN) consists of almost 40 interconnected 10/100 Megabit/sec ethernet subnets. More than 5,000 users access the LAN using microcomputers. OIT provides users connected to the LAN with high-speed communications to all the facilities mentioned above, plus the ability to access the Internet in full graphics/multimedia mode. The College utilizes a gigaspeed fiber-optic backbone to interconnect the ethernet subnets.

OIT currently supports more than 15 LAN server machines. The LANs permit wide-band exchange of information between student labs, academic departments, administrative offices, and the Internet. CUNY is a member of NYSERNET 2000, a project of the New York State Educational & Research Network, whose goal is to advance Internet technologies and to improve research and education collaboration.

**Media Services:** The Media Services division of OIT, with offices in Kiely Hall 183, is responsible for delivering materials for classroom instruction (videotapes, films, slides, overheads, etc.). Photographic services (slides, prints, and location photography) are available to faculty and staff in Kiely 144. The division operates and schedules the College’s satellite system that is used in teleconferences and to download licensed copyrighted programs. Media Services also operates the Interactive Video classroom in Kiely Hall 115. Services are also provided in Kiely 183 for students wishing to review video-taped lecture materials or to purchase lecture materials on audio tape.

**Other OIT Services:** The College’s Help Desk provides a variety of services to faculty and staff, including consulting on computer purchasing, software, computer installation, troubleshooting, and call tracking. The City University and Queens College have established volume purchasing agreements for a variety of software packages on which the Help Desk can provide you with additional information. The Help Desk would like you to visit them at HelpDesk.qc.edu where you can get information on the status of outstanding Help Desk calls.

**Laboratories**
The College’s laboratory facilities house up-to-date instruments for research in biology, chemistry and biochemistry, family, nutrition, and exercise sciences, geology, physics, and psychology.

**Speech-Language-Hearing Center**
The Speech-Language-Hearing Center (Gertz Building, 997-2930), directed by Professor Arlene Kraat, is a unit of the Department of Linguistics and Communication Disorders. Among the services extended are diagnostic speech, language, and hearing evaluations, and speech and language therapy. The Center’s facilities are used for research and to provide clinical practical experience for students in speech-language pathology and audiology.

The facility includes the Morton Roberts Center for Augmentative Communication, as well as a new program to study and modify developmental language disabilities in children.

**Campus Store**
The Campus Store sells books, stationery supplies, College apparel, and other items. Hours (posted inside and outside the store) are increased during registration and the first two weeks of classes for the convenience of students.

**Housing**
The College has no residence facilities.

**College/Community Services**
All of the following activities are open to the general public as well as the student
body and contribute to the cultural life of the campus and community.

_Colden Center for the Performing Arts_ provides a variety of concerts, ballets, and modern dance performances by students and faculty as well as by internationally known artists. It is available for rental to community organizations and private businesses who wish to sponsor a concert or fund-raising event.

_The QC Choral Society_ makes accessible to the public the cultural benefits of participating in the performance of great works of choral music. There are two concerts annually: one in Winter and one in Spring. In these performances the Choral Society is assisted by the QC Orchestra. Rehearsals are held every Wednesday evening when the College is in session. Admission by audition or interview. College credit is available.

_The Aaron Copland School of Music_ presents concerts by its faculty, students, and ensembles, including the College orchestra, choir, opera studio, collegium, etc. Concerts are held during free hours and on Friday afternoons. In addition, concerts are occasionally given on Tuesday and Thursday afternoons. There are also recitals and concerts by guest artists or ensembles in residence, lectures, and master classes.

_The Department of Drama, Theatre, and Dance_ presents major productions in the Goldstein Theatre during the academic year. Presentations include a musical, modern and classic plays, and dance presentations.

_The Godwin-Ternbach Museum_ in Klapper Hall is a teaching museum with a permanent collection of 2,500 works of art in all media from antiquity to the present. The Museum presents three to five exhibitions a year and holds lectures, workshops, and tours.
Openings for admission in all departments will be filled on a competitive basis; admission cannot be guaranteed to all who meet the stated requirements. This section covers the general admissions requirements for matriculated and non-matriculated students and the special requirements of certain departments. Information concerning admissions procedures for international students is also included.

**General Requirements**

Applicants to the Graduate Division should refer to the appropriate departmental listing in this Bulletin for specific admissions requirements, including minimum hours of undergraduate preparation, submission of compositions and portfolios, or audition performances.

All students applying for admission as Master’s matriculants must have a Bachelor’s degree from an accredited college or university, or the foreign equivalent, with an undergraduate record indicating good preparation for the proposed area of graduate study. Good preparation is generally interpreted to mean a minimum academic average of B in undergraduate work considered by the department and the Office of Graduate Studies to be relevant to the proposed area of study. If ten years have elapsed since completion of undergraduate work, additional undergraduate courses may be required as a condition of admission.

For admission to the Graduate Division, individuals must show evidence of good character and those personal traits necessary to fulfill course and certification requirements. Interviews, letters of recommendation, and prior academic records may be determinative.

Applicants must submit a 500-word essay explaining their objectives in pursuing graduate study.

Where appropriate, the College will require students to submit medical reports attesting to their ability to enter and complete a program.

**Immunization Requirements**

If you were born on or after January 1, 1957, New York State law requires that you be immunized against measles, mumps, and rubella before you start school. Students are required to file a QC Immunization Form at the Health Service Center (FitzGerald Gym, Room 204, 997-2760). Failure to file will jeopardize the student’s continuation in the graduate program, nor can a student register if the immunization requirement is not satisfied.

**Application Requirements**

Students who apply for the Master of Arts, Master of Arts in Liberal Studies, Master of Arts in the Social Sciences, Master of Fine Arts, Master of Library Science, or Master of Science Degree, or for the Certificate Program in Librarianship,* must also meet the following requirements:

1. Three letters of recommendation must be submitted; at least two letters must be from instructors who are in a position to attest to the applicant’s capacity to complete successfully a program of graduate studies.

2. The applicant may be required to submit test results for the Graduate Record Examination. Students should refer to the application packet issued by the Office of Graduate Admissions or seek advice from the appropriate department Chair or Graduate Adviser. The institutional code number of Queens College is 2750.

Students who apply for the Master of Science in Education Degree must also meet the following requirements:

1. Most programs require completion of an undergraduate education sequence; however, special transitional programs are available in some programs for students whose undergraduate preparation lacks this sequence.

2. The submission of letters of recommendation is required for most programs in Education. Applicants should refer to the application packet issued by the Office of Graduate Admissions for information regarding this requirement.

3. Queens College Master of Science degree programs in Teacher Education and diploma programs in Teacher Education meet New York State academic and field requirements for certification.

Applicants should bear in mind that while the College recommends for New York State teacher certification those students who successfully complete an approved program in Teacher Education, the College itself does not issue teaching licenses or certificates. New York City issues teaching licenses and New York
State issues teaching certificates. Requirements are subject to change. It is the student’s responsibility to determine whether a course of study will meet in full the licensing and certification requirements for New York City and State, and, where relevant, for states other than New York. The College’s library contains relevant materials, and assistance is provided by Graduate Advisers and the Office of Educational Placement (997-5545).

Students applying for Certificate and Diploma Programs:
Please consult the appropriate departmental listing in this Bulletin for additional admissions requirements.

Internationally Educated Students
Queens College strongly affirms the benefits of an international student body on its campus and invites internationally educated students to apply for admission to its graduate programs.

These students must meet all admissions requirements for the program they wish to enter. Official transcripts should be mailed directly from the international institution to the Queens College Office of Graduate Admissions in accordance with instructions in the application packet. If the transcripts are in a language other than English, official translations must be provided.

Students on temporary visas must submit with the application packet financial information confirming the funds that will be available to meet expenses for each year of enrollment. A financial information and certification form is included in the application packet mailed by the Office of Graduate Admissions. Support for students on temporary visas is provided by the International Student Services Office, B Building 211, 997-4440.

English Proficiency and the TOEFL
Proof of proficiency in the English language is required of all applicants:

1. whose first language is not English, and
2. who were educated in a country where English is not the official language.

This requirement is not based upon country of citizenship or permanent residency, but on the two stated conditions.

Applicants who meet these conditions must submit scores for the Test of English as a Foreign Language (TOEFL). The minimum acceptable TOEFL score is 500 except for those programs noted below. Students with a proficiency level below 500 should consider attending an intensive English program, such as the Queens College English Language Institute, prior to applying for admission. Applications and information regarding the TOEFL may be obtained from: TOEFL Services, P. O. Box 6151, Princeton, NJ 08541-6151, USA; phone 609-771-7100 (www.TOEFL.org). Students whose TOEFL score is in the 500-599 range will be required to take a course in English as a Second Language (ESL). The course bears no credit, but will count in determining full-time status for visa purposes.

<table>
<thead>
<tr>
<th>Minimum Score</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>Applied Linguistics*</td>
</tr>
<tr>
<td>600</td>
<td>Biology</td>
</tr>
<tr>
<td>600</td>
<td>Education: All Teacher Education Programs except TESOL</td>
</tr>
<tr>
<td>600</td>
<td>English: Creative Writing</td>
</tr>
<tr>
<td>600</td>
<td>English: Literature</td>
</tr>
<tr>
<td>600</td>
<td>Fine Arts</td>
</tr>
<tr>
<td>575</td>
<td>History</td>
</tr>
<tr>
<td>550</td>
<td>Library Science: All Programs</td>
</tr>
<tr>
<td>550</td>
<td>Media Studies</td>
</tr>
<tr>
<td>550</td>
<td>Music</td>
</tr>
<tr>
<td>600</td>
<td>Psychology</td>
</tr>
<tr>
<td>600</td>
<td>Psychology: Clinical Behavioral Applications in Mental Health Settings</td>
</tr>
<tr>
<td>650</td>
<td>Speech-Language Pathology</td>
</tr>
<tr>
<td>650</td>
<td>Teaching English to Speakers of Other Languages* (TESOL). Scores MUST Be Enclosed with Application</td>
</tr>
<tr>
<td>500</td>
<td>All Programs Not Listed Here</td>
</tr>
</tbody>
</table>

Admission to Matriculation
Applications for matriculated admission to the Graduate Division are considered on a semestery basis. (Some programs admit only in the Fall semester.) Applicants who are admitted to matriculation in one semester and fail to register in that semester must reactivate their applications, which may be reviewed again. Admission to matriculation in one semester does not guarantee admission in a subsequent semester. Applicants admitted for one semester who fail to register and who subsequently are admitted and register in a later semester must fulfill the degree or certificate requirements in effect in the semester of registration.

Acceptance for Matriculation with Conditions
A student whose undergraduate preparation is less than fully adequate may be admitted to matriculation with conditions, which take effect in the first semester of attendance. Unless otherwise indicated,
these conditions must be removed within one year, or before proceeding beyond 12 credits of graduate work, whichever comes sooner. Under certain circumstances, students with an undergraduate average marginally below B may be matriculated with the condition of “Probation.” A student admitted on probation must achieve a B (3.0) average in the first 12 credits of graduate work. Students admitted on probation who fail to attain fully matriculated status after completing 12 graduate credits will not be permitted to continue.

Non-Matriculated Status
A special application is required for admission as a non-matriculated student. A nonrefundable fee of $40 is payable at the time of filing the application. The application must be accompanied by proof of receipt of the Bachelor’s degree and must have the signed approval of the Graduate Adviser of the program in which the applicant wishes to take courses. The application form may be obtained at the Office of Graduate Admissions. The deadlines for Fall and Spring admission are five business days before registration.

Applicants on student or exchange visitor visas (F-1 or J-1) are not eligible to apply for non-matriculated status.

Registration in Courses for Non-Matriculants
Acceptance to non-matriculant status does not guarantee admittance to courses. Class sections may be filled early during registration; many courses have prerequisites; some courses and programs are not open to non-matriculants. Applicants for non-matriculated status must confer with the appropriate Graduate Adviser and/or class instructor prior to filing their applications for admission in order to determine their eligibility for the course and the likelihood of their being able to register for it, and to get the Adviser’s signed approval on the admissions application.

Non-matriculated students must obtain permission from the Graduate Adviser each semester before registering.

Graduate non-matriculants, except for those who have a Master’s or higher degree, or those who are Cooperating Teachers with tuition waivers, may take no more than 12 credits at Queens College in that status.

Non-matriculants who wish to matriculate must meet all requirements for admission to the particular program as listed in this Bulletin. Students should bear in mind that admission to non-matriculant status does not guarantee subsequent acceptance for matriculation, nor that courses taken as a non-matriculant will be credited toward the degree.

Non-matriculants who have not achieved a B average after completing 12 credits will not be permitted to matriculate or continue at the College.

Full-Time/Part-Time Status
Students who are registered for 12 credits of course work, or the equivalent, are considered full time. To meet requirements of the Immigration and Naturalization Service for F-1 visa students, full-time status is defined by the College as enrollment in 9 credits. Full-time graduate students may take a maximum of 15 credits a semester. Students in the Teacher Education program with full-time employment may take a maximum of 6 credits in any semester. Students who want to exceed these limits must receive the permission of both their academic department and the Office of Graduate Studies.

Continuous Registration, Inactive Status, and Reentry
There is no official leave of absence classification for graduate students; students who do not register for a semester are considered inactive. Such status is not noted on student records and does not extend the time limit for the degree or certificate. For extensions, see the section on Time Limits, page 11.

Inactive students who wish to return to the College within the same program must file an Application to Reenter with the Office of Graduate Admissions, Jefferson Hall 105, by the following dates:
July 1 for Fall admission  
December 1 for Spring admission  
May 1 for Summer admission

A nonrefundable application fee of $10 is required. Inactive students whose programs began eight or more years before the semester of reentry must also appeal to the Graduate Scholastic Standards Committee, Kiely Hall 809, for readmission. Information on appeals procedures may be obtained from the Office of Graduate Studies (997-5190).

It is advisable for reentering students to inform their departments and make an appointment with the Graduate Adviser prior to registration.

**Graduation Procedures and Maintenance of Matriculation**

The procedure whereby a student receives a degree or certificate must be initiated by the student, who declares his or her candidacy by filing a Graduation Application with the Office of the Registrar in accordance with the following deadlines:

For graduation in February: on or before November 1.

For graduation in May: on or before March 1.

For graduation in September: on or before July 1.

Graduation Applications may be obtained at the Office of the Registrar, Jefferson Hall, Room 100. Candidates are encouraged to file Graduation Applications at the time they register for their last semester.

A Graduation Application should be filed as long as the student is reasonably certain that all degree requirements will be satisfied by the end of the semester preceding the graduation date. If the student does not graduate, a new Graduation Application must be filed. Students who submit a Graduation Application after the deadline will be asked to refile for a future semester.

*Important Note: Maintenance of Matriculation.* CUNY regulations require students to be registered in the semester in which the degree is awarded. If all course work was completed before the graduation semester and no courses are being taken, students must register for maintenance of matriculation.

Current fees for maintenance of matriculation are $250 for New York State residents and $403 for out-of-state students. Registration for maintenance of matriculation is not required for any semester other than the semester preceding the graduation date. Students may also fulfill the requirement to be registered by enrolling in undergraduate or extra graduate courses.

Payment of the fee allows students to use the facilities of Queens College as a regularly registered student (library, laboratories, etc.).

**Enrollment Following Graduation**

A student who, after having received a Queens College Master’s degree, wishes to continue registering for courses, must file a non-matriculant application form with the Office of Graduate Admissions by the appropriate deadline date.
All tuition and other fees listed in this Graduate Bulletin and in any registration material issued by the College are subject to change. In the event of any increase in fees or tuition charges, payments already made to the College will be treated as partial payments and notification will be given of the additional amount due and the time and method of payment. Class schedules should be checked prior to registration for fee changes.

Payment of Tuition and Fees

In planning to register for courses, students must be prepared to pay all fees associated with that registration. These include tuition, the activity fee, material and transportation charges, and other fees.

Students registering during the early registration period will receive a bill in the mail. This must be paid by the Payment Due Date printed on the bill. If payment is not received by the due date on the bill, the student’s entire registration will be canceled by the College.

Students registering during the regular and late registration periods will be required to pick up a bill at the Bursar’s Office. All payments must be made in the Bursar’s Office on the day the student picks up the bill.

If a student pays by check or money order, the student’s social security number must be written on the check or money order. A student who receives a zero Balance Due bill will not be required to have it validated at the Bursar’s Office. A student who issues a bad check will be liable for tuition and fees in addition to a reprocessing fee. A Stop Payment on a student’s check does not cancel registration. The student must withdraw officially.

Activity Fee

All students are required to pay an activity fee that covers student activities, Public Interest Research Group (PIRG), Student Union, and the like. It does not cover service fees that a student may incur individually, such as fees for program changes, late registration, transcripts, special examinations, or parking. Unless changed after printing of this Bulletin, the activity fee for full-time and part-time graduate students is $57.10 each session of attendance. The breakdown of the fee is shown on page 24.

The activity fee or any part thereof is not refundable at any time, nor can it be waived unless the College cancels all courses for which a student has registered or the student formally withdraws from all classes prior to the official first day of classes. Exception is made as follows:

1. If a student is placed on active military service, partial refunds may be made. Students who are so notified should get in touch with the Registrar’s Office immediately.

2. The $3 PIRG fee portion of the activity fee is refundable if application is made to the Queens College PIRG Office, Student Union B22, within three weeks after commencement of classes.

Tuition Fees: Matriculated and Non-Matriculated

New York State Residents

- $185 per credit plus
- $65 per additional contact hour
- Maximum of $2175

Out-of-State Students

- $320 per credit plus
- $85 per additional contact hour
- Maximum of $3800

Graduate students who take undergraduate courses and receive undergraduate credit for them are charged undergraduate tuition for those courses and the graduate activity fee.

Material/Film & Transportation/Field Charges*

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>621</td>
</tr>
<tr>
<td>EECE</td>
<td>555</td>
</tr>
<tr>
<td>EECE</td>
<td>750</td>
</tr>
<tr>
<td>EECE</td>
<td>751</td>
</tr>
<tr>
<td>EECE</td>
<td>753</td>
</tr>
<tr>
<td>EECE</td>
<td>783</td>
</tr>
<tr>
<td>ECPAS</td>
<td>887</td>
</tr>
<tr>
<td>ECPRE</td>
<td>783</td>
</tr>
<tr>
<td>ECPRE</td>
<td>784</td>
</tr>
<tr>
<td>ECPRE</td>
<td>787</td>
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<tr>
<td>ECPRE</td>
<td>788</td>
</tr>
<tr>
<td>FNES</td>
<td>708</td>
</tr>
<tr>
<td>FNES</td>
<td>771</td>
</tr>
<tr>
<td>Psychology</td>
<td>761</td>
</tr>
<tr>
<td>Psychology</td>
<td>764</td>
</tr>
<tr>
<td>SEYS</td>
<td>562</td>
</tr>
<tr>
<td>SEYS</td>
<td>711</td>
</tr>
<tr>
<td>SEYS</td>
<td>712</td>
</tr>
<tr>
<td>SEYS</td>
<td>773</td>
</tr>
</tbody>
</table>

Material and transportation charges of other courses will be shown in the Class Schedule.

*Tuition, Fees & Financial Aid

Subject to change. See the Class Schedule for current charges.
Schedule, issued just before registration.

A student who drops a course that has charges before classes begin will receive a refund.

Special Fees

The following fees will also be charged:
1. All students are required to pay a non-refundable fee of $40 at the time of filing application for either matriculant or non-matriculant status in a Master’s degree or certificate program.

2. A reentry fee of $10 is payable by matriculated students who want to re-enter the College after an absence of one or more semesters.

3. A charge of $15 is made for late registration after the regularly scheduled registration period.

4. A charge of $10 is assessed for students who change their schedules and add courses. There is no charge for students who only drop courses when changing their schedules.

5. Breakage fees are assessed to cover the cost of equipment damaged in the course of laboratory work. There is no charge for total breakage under $1.

6. A charge at list price is made for replacement of any issued physical education equipment that may be missing from the student’s gym locker at the end of a semester.

7. A fee of $15 is payable when a make-up examination is given and $5 is charged for each additional examination, up to a maximum of $25 per semester.

8. A fee of $125 per year, including 6% New York City parking tax, is charged for campus parking, if granted. (See Campus Parking, page 32.)

9. Duplicate Records fees are: a) duplicate I.D. card: $5; b) duplicate diploma: $15; c) each transcript of record: $4 (waived when the transcript is to be forwarded to another unit of the City University); d) other duplicate records: $5.

10. A fee of $25 is charged for the binding of the Master’s thesis.

11. The per-semester fees for maintenance of matriculation are: $250 for NYS residents; $403 for out-of-state students.

12. A $15 non-payment service fee is charged whenever a student does not pay any bill by its due date. It applies to students who receive hardship deferrals and who are declared eligible for financial aid as well as to those not receiving deferrals or aid.

13. A payment reprocessing fee of $15 is charged when a check tendered to the College by a student is not honored by the bank upon which the check is drawn. A separate fee will be charged for each check that requires reprocessing. In the event that the return of the check resulted from a bank error and the bank acknowledges the error in writing, the reprocessing fee may be waived.

Payment of service fees, fines, and miscellaneous charges may be made at the Bursar’s windows in Jefferson Hall. Information about payment of registration fees can be found in the Registration Guide and Schedule of Classes published each semester.

The Bursar’s Office is open Monday through Friday from 9:30 am to 4:30 pm, and Wednesday from 5:00 to 7:00 pm when classes are in session.

Refund of Tuition Fees

To receive a 100% refund of tuition, students must drop course(s) by calling the Telephone Registration System before the official opening day of classes. There is no charge for students who only drop courses when changing their schedules.

Refunds will be made in accordance with the following schedule. Students should refer to each semester’s Class Schedule for specific calendar dates.

Fall and Spring

<table>
<thead>
<tr>
<th>Refund</th>
<th>Withdrawal from course before the official scheduled opening date of the semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>______________ 100%</td>
</tr>
</tbody>
</table>

Withdrawal within one week after the official scheduled opening date of the semester __________ 75%

Withdrawal during second week after the official scheduled opening date of the semester __________ 50%

Withdrawal during third week after the official scheduled opening date of the semester __________ 25%

Withdrawal after completion of third week after the official scheduled opening date of the semester __________ None

Application for tuition refunds for extenuating circumstances should be made in writing to the Registration Review Committee, c/o the Registrar’s Office (Jefferson Hall, Room 100).

Except as otherwise noted, no other fees are refundable.

Checks Returned to the College by the Bank

If your check is returned by the bank to Queens College, your registration will be processed in the following manner:

1. Stop Payments: A stop payment on your check will not result in cancellation of your registration. In order to cancel your registration, you must notify the Registrar in person or in writing – prior to the official opening day of classes – of

Activity Fee

<table>
<thead>
<tr>
<th>Activity Fee</th>
<th>Total</th>
<th>Stud Govt.</th>
<th>College Assoc.</th>
<th>Serv Corp.</th>
<th>Disabled Students Fee</th>
<th>PIRG Fee</th>
<th>Univ Govt. Fee</th>
<th>Special Non-Instructional Fee</th>
<th>Sports Allocation Board</th>
<th>Child Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>$57.10</td>
<td>$2.45</td>
<td>$4.55</td>
<td>$40</td>
<td>$2</td>
<td>$3</td>
<td>$8.5</td>
<td>-$</td>
<td>$3</td>
<td>$1.25</td>
</tr>
<tr>
<td>Part-time</td>
<td>57.10</td>
<td>$2.45</td>
<td>$4.55</td>
<td>$40</td>
<td>$2</td>
<td>$3</td>
<td>$8.5</td>
<td>-$</td>
<td>$3</td>
<td>$1.25</td>
</tr>
<tr>
<td>Cooperating</td>
<td>25.00</td>
<td>-0-</td>
<td>-0-</td>
<td>-0-</td>
<td>-0-</td>
<td>-0-</td>
<td>-0-</td>
<td>$25</td>
<td>-0-</td>
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</tr>
<tr>
<td>teacher</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

All students will be charged a Consolidated Service Fee of $5 for each semester or session.
your intention not to attend. In such case, you will receive a 100% refund of tuition and fees. As stated in 13 on page 24, a stop payment order will result only in a reprocessing fee of $15.

2. Other: If your check is returned by the bank as not presentable for collection (NG), you will be liable for all tuition and fees in addition to a reprocessing fee.

**Holds**

Students who have debts (for any tuition, fees, parking violations, breakage, emergency loans, etc.) that are past due will have holds placed on registration, transcripts, and diplomas.

**FINANCIAL AID PROGRAMS**

Students seeking information on costs, resources, and eligibility criteria for financial aid should contact the Financial Aid Office (Jefferson Hall, Room 202, 997-5100). The office is open from 9:30 am to 4:00 pm, Monday through Thursday, 9:30 am to 2:00 pm on Friday, and from 5:00 to 7:00 pm, Tuesday and Wednesday, when classes are in session.

If available resources are not sufficient to cover the cost of your attendance, you should look into financial aid. Financial assistance, provided through the College, is intended for eligible students who need help in meeting costs. The College does not provide financial assistance for students who attend on less than a half-time basis. The following is a listing of financial aid programs available to graduate students:
New York State Programs
Tuition Assistance Programs (TAP)
Federal Programs
Federal Perkins Loans
Federal Direct Loans
Federal Work-Study Program (FWS)
Veterans Administration Educational Benefits
Queens College Programs
Emergency Student Loan Funds
Adele Fox Book Loan Fund
Graduate Partial Tuition Waivers

Financial aid programs are subject to change. Additional state and federal assistance may be available to limited numbers of students. For more information, contact the Financial Aid Office.

NEW YORK STATE PROGRAMS
Note: Where a question of eligibility exists, contact the Financial Aid Office for information and assistance.

Tuition Assistance Program (TAP)
Application Procedures
Applicants must apply annually to the New York State Higher Education Services Corporation (HESC), Tower Building, Empire State Plaza, Albany, NY 12230. The current application deadline is May 1. Applications are available in the Financial Aid Office.

The first step is to complete the Federal FAFSA application. CUNY then mails you a TAP application.

The Higher Education Services Corporation determines your eligibility and mails an award certificate directly to you, indicating the amount of your grant. Present the Institutional Copy of the award certificate at the time you pay tuition. The College may defer tuition payment on the basis of receipt of the award certificate.

Selection of Recipients
TAP is an entitlement program. There is neither a qualifying examination nor a limited number of awards. You must:
1. be a New York State resident for one year and a U.S. citizen, permanent resident alien, or paroled refugee;
2. be enrolled full-time and matriculated;
3. have, if dependent, a family net taxable income below $20,001, or if independent and single with no tax dependents, a net taxable income below $5,667;
4. be charged a tuition of at least $200 a year;
5. be in good academic standing.

Applicants will be excluded from this program if they are in default in the repayment of a student loan.

The maximum TAP award for graduate students is $550 per year, the minimum $75. Graduate students may receive TAP for eight semesters.

Academic Standing
Students who received their first TAP award in 1981-82 or thereafter, must meet the program pursuit and academic progress requirements to be considered in good academic standing. The penalty for loss of good standing is suspension of the award.

Waiver
A graduate student may be granted a waiver of the TAP pursuit and progress requirements once. If a waiver is granted, the student can continue to be eligible for TAP for that semester only and must then meet the requirements to be eligible for further payments.

FEDERAL PROGRAMS
To be eligible for the federal Title IV student financial aid programs (Perkins, Federal Direct Loans, and FWS), a student must:
1. be enrolled at least half-time as a matriculated student;
2. be a U.S. citizen or an eligible noncitizen;
3. show evidence of need;
4. be making satisfactory academic progress toward a degree;
5. not be in default on any student loan, or owe a repayment of a Pell or Supplemental Educational Opportunity Grant.

Satisfactory Progress Standard
To be making satisfactory progress toward a degree, for purposes of receipt of Title IV Federal Student Assistance, a graduate student must meet Graduate Division requirements concerning grade-point average, as explained in the section Required Grade-Point Average, Probation, and Dismissal (page 30) and have accumulated credits toward the degree greater than or equal to two-thirds the cumulative credits attempted at the College and not have attempted more than 150% of the credits normally required for completion of the degree.

Students will be measured against the satisfactory progress standard at the end of the Spring term to determine their eligibility for receipt of funds for the upcoming year.

Students who fail to meet the standard...
may appeal their status in the Graduate Studies Office, Kiely Hall 811.

**Federal Perkins Loan Program**  
**Application Procedures**  
Application is made through Queens College. A student enrolled at Queens College can apply for a loan by completing a Free Application for Federal Student Aid (FAFSA), which is available in the Financial Aid Office.

**Selection of Recipients**  
Loans are available to matriculated students enrolled at least half-time who meet the eligibility criteria listed for federal programs.

**Awards**  
Amounts that may be awarded by CUNY for an academic year range from $800 to $3500.

The maximum amount that may be borrowed under the Federal Perkins Loan Program is $20,000 for graduate study. The aggregate loan limit for both graduate and undergraduate study is $40,000.

The current interest rate, payable during the repayment period, is 5% on the unpaid principal. Repayment begins nine months after you graduate, leave school, or are enrolled less than half-time, and may extend over a period of 10 years.

For additional information about repayment schedules, deferral, and cancellation of repayment, contact the Financial Aid Office, or visit www.ed.gov.

**Federal Direct Loan Program**  
**Application Procedures**  
The first step is to file the FAFSA. After the FAFSA is processed, fill out the Queens College Direct Loan Application. A pre-loan interview is required.

**Selection of Recipients**  
To be eligible for a Federal Direct Loan, you must meet the eligibility requirements listed above. All students must complete a FAFSA to determine need for the loan.

**Loan Schedule**  
A graduate student may borrow up to $8,500 per academic year under the Federal Direct Loan Program, up to a combined total of $138,500 including any loan for undergraduate study. The amount you borrow is limited to the cost of education at Queens College minus other financial aid you may receive and your expected family contribution.

The interest rate on Federal Direct Loans is variable, but may not exceed 8.25%. Students are responsible for an origination fee of 4%, which is deducted from the payment(s).

For more detailed information about repayment schedules and procedures, contact the Financial Aid Office.

**Federal Work-Study Program (FWS)**  
**Application Procedures**  
Application is made through Queens College on the FAFSA.

**Selection of Recipients**  
The College must make employment reasonably available to all eligible students. In the event that more students are eligible than there are funds available, preference is given to students who have a greater financial need and who must earn a part of their educational expenses.

**Awards**  
The College arranges jobs on and off campus, with public or private nonprofit agencies, such as hospitals, for up to 20 hours per week during the academic year and 35 hours per week during the Summer.

The level of salary must be at least the minimum wage; wages higher than the minimum depend on the nature of the job and the qualifications of the applicant.

Satisfactory academic progress must be maintained as well as satisfactory performance on the job.

**Veterans Administration (VA) Educational Benefits**  
**Application Procedures**  
Application forms are available at all VA offices, active duty stations, and American embassies. Forms completed by the Registrar’s Office are submitted to the regional VA Office.

Educational benefits are available through the Veterans Administration under the following programs:

- **New GI Bill (Chapter 30):** For service persons who entered active duty between July 1, 1985 and June 30, 1988.
- **Vocational Rehabilitation (Chapter 31):**
- **Veterans Contributory Benefits (VEAP) (Chapter 32):** For veterans and service persons who entered active duty after December 31, 1976.
- **Dependent Educational Assistance Benefits (Chapter 35):** For spouses and children of veterans whose death or total, permanent disability was service connected.

**QUEENS COLLEGE PROGRAMS**  
**Emergency Student Loan Funds**  
Students may borrow small amounts to cover emergencies for a short time and pay no interest. In general, loans are limited to $100 and are to be repaid within 30 days. Apply in person at the Financial Aid Office. Approved loans usually may be obtained in two days.

**Adele Fox Book Loan Fund**  
Students may borrow up to $300 per semester to purchase books at the Queens College Bookstore to be repaid from their financial aid award.

For veterans who have at least a 10% disability as a result of active service.
Full-time graduate students may take a maximum of 15 credits a semester. Students in the Teacher Education program with full-time employment may take a maximum of six credits in any semester. Students who want to exceed these limits must receive the permission of both their academic department and the Office of Graduate Studies.

Grades
The following grades are used in the Graduate Division of Queens College:


To ensure uniformity of grading standards, the Committee on Graduate Scholastic Standards has approved the following table of equivalents:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>97-100</td>
</tr>
<tr>
<td>A</td>
<td>93-96</td>
</tr>
<tr>
<td>A–</td>
<td>90-92</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
</tr>
<tr>
<td>B–</td>
<td>80-82</td>
</tr>
<tr>
<td>C</td>
<td>77-79</td>
</tr>
<tr>
<td>C–</td>
<td>73-76</td>
</tr>
<tr>
<td>F</td>
<td>0-69</td>
</tr>
</tbody>
</table>

The following special grades are also used in the Graduate Division:

- W (Withdrawn Passing): Given when a student withdraws formally from the course. WU is equivalent to a failure.
- WA (Administrative Withdrawal): Given when the student fails to comply with New York State Public Health Law 2165 (Immunization).
- P is a passing grade that is valid only in those few courses that are designated as permitting this grade.
- Z is a temporary grade assigned when an instructor does not submit a grade.
- Audit (Aud.) indicates that a student registered and paid for a course and attended classes, but was not required to do course work and will receive no credit for the course. Courses that have been audited may not later be repeated for credit, nor will credit be granted for an audited course.

Withdrawal Procedure
Withdrawals from courses during the first eight weeks of the semester require no special approval. During this period, students must use the Telephone Registration System, both to drop courses within the first three weeks of classes and to withdraw, receiving a grade of W from the fourth through eighth week of the semester.

Beginning with the first day of the ninth week of the semester, graduate students must complete a Request for Permission to Withdraw from a Course. This form is obtainable from the Office of the Registrar and the Office of Graduate Studies. It must be signed by the course instructor and by the student’s Graduate Adviser and filed in the Registrar’s Office.

Beginning with the fourteenth week of the semester, approval of the Office of Graduate Studies is also required. In both cases, the instructor must indicate whether the student is passing or failing as of the date of withdrawal. An indication of failure results in the grade of WF, which has the same effect on the student’s grade-point average as an F. Course withdrawals at the graduate level are allowable up to the official last day of classes.

A course (or courses) dropped during the first three weeks of the semester may result in a refund of some portion of the tuition fee. The activity fee is not refundable unless the student has formally withdrawn from classes prior to the first official day of classes.

Incomplete Work
Incomplete (Inc.): This grade, which must be requested by the student prior to the end of the semester, is given by the instructor to indicate a student has made a satisfactory record in course work but, for good and sufficient reason, is unable to complete the course. A graduate student receiving this grade must complete the work of the course by the end of the next two regular semesters. Requests for extensions of time may be addressed to the Office of Graduate Studies. If the work of the course is not completed, the grade remains on the transcript without penalty. Students preparing to complete a course in which the grade is Incomplete must not register for the course a second time.

Absent
Absent (Abs.): This is a temporary grade indicating that the student missed the final
examination, which was the only work in the course that was not completed. The Absent grade is given only when it is expected that the student will be able to achieve a passing grade in the course by taking a make-up examination. A graduate student receiving this grade is required, with the permission of the departmental adviser, to take a make-up final examination by the end of the next two regular semesters. A fee of $15 is charged when a special examination is given. (See number 7 under Special Fees, page 24.)

Note: Students may not graduate with an unresolved grade of Abs. on the record.

Important Note Regarding Completion of Courses

Full-time graduate students who were eligible to receive New York State Tuition Assistance Program (TAP) awards for the first time in Fall 1981 or thereafter should be aware that in order to receive their awards they must have completed 12 credits in the semester of the award. For graduate students, the grades W, WF, WU, Inc., and Abs. are counted as “not complete” and may jeopardize eligibility for the TAP award.

Advisement

Matriculated students are urged to consult with their Graduate Adviser before registering for courses. New matriculants and non-matriculated students are required to obtain permission from the Graduate Adviser each semester prior to registering for courses. Instructors have the right to dismiss from class any non-matriculated student who did not obtain permission to enroll.

Grade-Point Average

The grade-point average, which is a numerical index of the student’s academic record at Queens College, is computed in the following manner:

1. Multiply the total number of credits earned at Queens College with each specific grade (A+ to C– and F) by the numerical values of these grades.

2. Add the number of credits taken at Queens College. This sum includes credits for courses failed (WU, WF, or F) as well as courses passed with grades A+ to C–. Credits completed with a grade of P are not included in this sum. (See also the Important Note below.)

3. Divide the result obtained in step 1 by the result obtained in step 2. This result becomes the grade-point average, which is indicated by three decimal places.

Important Note: Grades for courses transferred from other institutions are not included in the computation of the grade-point average; it is based only on grades received in Queens College courses.

Grade Replacement Policy

As of September 1, 1996, graduate students are entitled to the following grade replacement policy, which is limited to graduate courses: With the exception of courses that are designated as repeatable for credit, graduate students may repeat a graduate course and have the last grade received replace the previous grade in the cumulative grade-point average. No more than four credits may be replaced.

Transcripts

There is a fee of $4 to order a copy of your Queens College record. (Note: There is no fee for transcripts to be sent to other branches of CUNY.) When ordering a transcript and paying with a check, go directly to the Registrar’s Office, Jefferson Hall 100. If you are paying with cash or a credit card, go to the Bursar’s payment windows on the second floor of Jefferson Hall. When you pay your fee, you will be given a receipt to bring to the Registrar’s Office, Jefferson 100. You must give the Registrar’s representative the Registrar’s copy of the receipt to receive a transcript request form. Fill out the form completely and be sure to sign it. Return both copies of the form to the Registrar’s Office. Allow three to four weeks for delivery. (No same-day service.)

If you wish to request a transcript by mail, obtain a transcript form from Queens College, 65-30 Kissena Blvd., Flushing, NY 11367-1597, Attention: Jefferson Hall 100. Complete all the information on the form and mail it back to the Office. Be sure to include social security number and current address on your check or money order. The fee covers a complete transcript for all divisions attended. Complete information and fee must be received in order to fill the request.

If a hold has been placed on your record, you will be notified. Requests for transcripts will not be honored until the hold has been cleared.

Required Grade-Point Average, Probation, and Dismissal

All programs must be completed with a minimum average of at least 3.0 (B). A matriculated graduate student whose grade-point average falls below 3.0 during the course of the program will be placed on probation. The student will then have up to 12 graduate credits within which to raise the grade-point average to 3.0. If this is not achieved, the student will be dismissed.

A matriculated graduate student who is

<table>
<thead>
<tr>
<th>Grade</th>
<th>Numerical Value</th>
<th>Credits</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4</td>
<td>× 6</td>
<td>= 24</td>
</tr>
<tr>
<td>A</td>
<td>4</td>
<td>× 6</td>
<td>= 36</td>
</tr>
<tr>
<td>A–</td>
<td>3.7</td>
<td>× 6</td>
<td>= 19.8</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>× 6</td>
<td>= 18</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>× 3</td>
<td>= 9.1</td>
</tr>
<tr>
<td>B–</td>
<td>2.7</td>
<td>× 3</td>
<td>= 8.1</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>× 3</td>
<td>= 6.9</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>× 3</td>
<td>= 6</td>
</tr>
<tr>
<td>C–</td>
<td>1.7</td>
<td>× 3</td>
<td>= 5.1</td>
</tr>
<tr>
<td>WU, WF, F</td>
<td>0</td>
<td>× 3*</td>
<td>= 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>45</td>
<td>135</td>
</tr>
</tbody>
</table>

135 ÷ 45 = 3.00

The grade-point average is 3.00.

*Credit granted in computing the grade-point average, but not toward the degree.
dismissed must remain out of the College for at least one semester. To return, the student must file a formal application for reentry and pay a non-refundable reentry fee by the appropriate deadline (see page 22). The student must also petition the Office of Graduate Studies for permission to reenter. Requests for reentry will be reviewed on an individual basis.

Permission to reenter following a suspension may be granted one time only.

Students who have completed the total credits required by their degree or certificate program may not take additional credits at another institution to raise the grade-point average. At the completion of the total credits allotted to a program, if a student does not have a 3.0 average and wishes to register for additional courses at Queens to attempt to raise the grade-point average, permission to do so must be obtained from the Office of Graduate Studies.

Appeals of Grades
A student who believes he or she has received an inappropriate grade should take the following steps:

1. Consult with the instructor.
2. If there is no satisfactory resolution, consult with the departmental Chair. The Chair may convene a faculty committee to review the appeal.
3. If there is still no satisfactory resolution, appeal to the Office of Graduate Studies for a further review. The appeal must be in writing and must detail the reasons why the grade is felt to be inappropriate.
4. Appeals from the decisions of the Office of Graduate Studies may be directed in writing to the Graduate Scholastic Standards Committee.

The only basis for an appeal to the Office of Graduate Studies and the Graduate Scholastic Standards Committee is that the student has been treated in an arbitrary and capricious manner by the instructor. To make such an appeal, the student must be prepared to demonstrate that the grade was assigned punitively, unfairly, or on a basis other than impartial academic evaluation. At the departmental level, a grade appeal may be based on the academic quality of the student’s work.

Once a grade has been posted on the record, it may not be changed without the written permission of the Office of Graduate Studies.

Attendance
By registering in a course, the student assumes the obligation to fulfill the requirements set for that course by its instructor. Although absence in and of itself shall not affect a student’s grade, students are responsible for such activities as participation in class discussions, laboratory sessions, field trips, etc.; the preparation of papers and reports; and the taking of quizzes and examinations, any or all of which may constitute a component in the student’s final grade for the course. In addition to observing the regulation regarding withdrawal from a course, students are expected as a normal courtesy to inform the instructor of any prolonged absence or withdrawal.

Students who wish to withdraw officially from a course should refer to the section of this Bulletin dealing with withdrawal procedures (page 29).

Students who wish to request a grade of Incomplete (Inc.) should refer to the section on Incomplete Work (page 29).
REGULATIONS

Rules governing campus parking, student records, non-discrimination policies, complaint procedures, the use of computers, and general student conduct are listed in this section.

A complete statement concerning the College’s policy on sexual assault, sexual harassment, security, AIDS, and drugs and alcohol abuse is contained in a pamphlet called *Your Right to Know*. It is available at the Welcome Center in the lobby of Jefferson Hall, in the Office of the Dean of Students in B Building, and at the information kiosk in the front lobby area of the Student Union. *Your Right to Know* lists resources, both on and off campus, for students who have questions or seek assistance about any of the topics noted above.

Identification Cards
The College supplies each student with an identification card. College regulations require students to carry their validated ID on campus and to present it to a member of the faculty or staff if requested to do so.

New students should have their ID photos taken in Jefferson Hall, Room 201, after they have completed their registration. The Bursar will mail a validation sticker with acknowledgment of receipt of payment of the tuition bill.

The validated card identifies those persons authorized to be on campus and extends to registered students all the privileges of membership in the College community. ID cards are used in the library system. A validated ID must be shown to collect any check from the Bursar’s Office.

Replacement of lost or stolen ID cards takes five days from the date of application to the Security Office, Jefferson Hall 201. A fee of $5 is charged to duplicate a lost ID.

Campus Parking
A special permit is required to park on the campus. Parking space on campus is extremely limited, and only a small number of students can be accommodated.

During the day session, the College provides parking for faculty, staff, and students with severe physical handicaps. During the evening session, limited space is available for students in courses beginning after 4 pm. Students should plan their programs assuming that parking will not be available; program changes cannot be made due to the lack of parking.

Applying for Parking
Applications will be accepted only during the Regular Registration period and the first week of classes.

Applications for parking may be made at the Security Office (Jefferson Hall 201). Applicants must produce the following at the time of application: a driver’s license, the car registration (which must be in the student’s name or in the family name), and proof of College registration (computer print-out or paid bill is the only acceptable proof). Permits are assigned on the basis of need, determined according to a point system. Information about this system is provided with the parking application, which is available at the Security Office. Office hours will be posted at time of application. Approved applicants will receive a parking decal from Security after payment of $125 to the Bursar for Fall/Spring parking.

Students purchasing a parking decal will receive a copy of the parking and traffic regulations. Decals must be permanently affixed (not taped on), according to the directions printed on them. Lost or stolen decals will not be replaced, and parking fees are not refundable. Violation of campus parking or traffic regulations can result in fines, suspension of parking privileges, towaway, withholding of transcripts, and blocking of future registrations until fines are paid. Parking fees and fines are subject to change without notice.

Motorcycle riders must purchase a decal at a cost of $125. A special area will be set aside for motorcycle parking.

Parking for Students with Disabilities
Requests for parking privileges based on physical disabilities must be made through the Health Service Center (FitzGerald Gym 204).

Student Records
The College abides by the provisions of the Federal Education Rights and Privacy Act of 1974. Students have the right to be advised of what student records and information are maintained by the College, who maintains them, who has access to them and for what purposes, policies for reviewing and expunging them, procedures for granting students access and for challenging the records, cost charged for copies, and other rights and requirements under the Act. All of this information is available from the Registrar, Jefferson Hall 201.
identifies problem areas that indicate pat-

appealed to the General Counsel and Vice

requested, the person to whom the request

employ, retain, and promote employees

minority groups in all phases of the Col-

require that any or all of the above

U n i v e r s i t y .

access to the record. The appeal will be

of the original request for access, the par-

Registrar’s Office. The form may be

dance, major field of study, and degrees

students, B Building; or in the Student

tors accomplishment of these goals,

Students, B Building; or in the Student

SA Committee, you may obtain a copy of the

specialization, counseling, financial aid, scholarships,

stated in Section 504 and the ADA.

afflicted with a physical or mental handicap, and veteran or marital status.

See sexual harassment is illegal under Feder-

ommunity about sexual harassment. The University

procedures to ensure that investigations of allegations of sexual

that is prompt, fair, thorough, and as con-

inconsistent with this objective and con-

been aggrieved under this policy are strongly

agreed under this policy are strongly

delay in making a complaint of sexual

more difficult for the college to investigate the allegations.

Prohibited Conduct

It is a violation of University policy for

to engage in sexual harassment or to retal-

members of the University community for: raising an allegation of

allegation of sexual harassment; filing a complaint

allegation of sexual harassment; or participat-

in any proceeding to determine if sexual

Definition of Sexual Harassment

For purposes of this policy, sexual harassment

defines as unwelcome sexual advances, requests for sexual favors, and

ally or written communications or

physical conduct of a sexual nature when:

1) submission to such conduct is made

Explicitly or implicitly a term or
condition of an individual’s employment or academic standing;
2) submission to or rejection of such conduct by an individual is used as a basis for employment or academic decisions affecting such individual; or
3) such conduct has the purpose or effect of unreasonably interfering with an individual’s work or academic performance or creating an intimidating, hostile, or abusive work or academic environment.

Sexual harassment can occur between individuals of different sexes or of the same sex. Although sexual harassment most often exploits a relationship between individuals of unequal power (such as between faculty/staff member and student, supervisor and employee, or tenured and untenured faculty members), it may also occur between individuals of equal power (such as between fellow students or coworkers), or in some circumstances even where it appears that the harasser has less power than the individual harassed (for example, a student sexually harassing a faculty member). A lack of intent to harass may be relevant to, but will not be determinative of, whether sexual harassment has occurred.

Examples of Sexual Harassment
Sexual harassment may take different forms. Using a person’s response to a request for sexual favors as a basis for an academic or employment decision is one form of sexual harassment. Examples of this type of sexual harassment (known as quid pro quo harassment) include, but are not limited to, the following:

- requesting or demanding sexual favors in exchange for employment or academic opportunities (such as hiring, promotions, grades, or recommendations);
- submitting unfair or inaccurate job or academic evaluations or grades, or denying training, promotion, or access to any other employment or academic opportunity, because sexual advances have been rejected.

Other types of unwelcome conduct of a sexual nature can also constitute sexual harassment, if sufficiently severe or pervasive that the target does find, and a reasonable person would find, that an intimidating, hostile, or abusive work or academic environment has been created. Examples of this kind of sexual harassment (known as hostile environment harassment) include, but are not limited to, the following:

- sexual comments, teasing, or jokes;
- sexual slurs, demeaning epithets, derogatory statements, or other verbal abuse;
- graphic or sexually suggestive comments about an individual’s attire or body;
- inquiries or discussions about sexual activities;
- pressure to accept social invitations, to meet privately, to date, or to have sexual relations;
- sexually suggestive letters or other written materials;
- sexual touching, brushing up against another in a sexual manner, graphic or sexually suggestive gestures, cornering, pinching, grabbing, kissing, or fondling;
- coerced sexual intercourse or sexual assault.

Consensual Relationships
Amorous, dating, or sexual relationships that might be appropriate in other circumstances have inherent dangers when they occur between a faculty member, supervisor, or other member of the University community and any person for whom he or she has a professional responsibility. These dangers can include: that a student or employee may feel coerced into an unwanted relationship because he or she fears that refusal to enter into the relationship will adversely affect his or her education or employment; that conflicts of interest may arise when a faculty member, supervisor, or other member of the University community is required to evaluate the work or make personnel or academic decisions with respect to an individual with whom he or she is having a romantic relationship; that students or employees may perceive that a fellow student or coworker who is involved in a romantic relationship will receive an unfair advantage; and that if the relationship ends in a way that is not amicable, either or both of the parties may wish to take action to injure the other party.

Faculty members, supervisors, and other members of the University community who have professional responsibility for other individuals, accordingly, should be aware that any romantic or sexual involvement with a student or employee for whom they have such a responsibility may raise questions as to the mutuality of the relationship and may lead to charges of sexual harassment. For the reasons stated above, such relationships are strongly discouraged.

For purposes of this section, an individual has “professional responsibility” for another individual at the University if he or she performs functions including, but not limited to, teaching, counseling, grading, advising, evaluating, hiring, supervising, or making decisions or recommendations that confer benefits such as promotions, financial aid or awards or other remuneration, or that may impact upon other academic or employment opportunities.

Academic Freedom
This policy shall not be interpreted so as to constitute interference with academic freedom.

False and Malicious Accusations
Members of the University community who make false and malicious complaints of sexual harassment, as opposed to complaints which, even if erroneous, are made in good faith, will be subject to disciplinary action.

Procedures
The University shall develop procedures to implement this policy. The President of each constituent college of the University, the Deputy Chancellor at the Central Office, and the Dean of the Law School shall have ultimate responsibility for overseeing compliance with this policy at his or her respective unit of the University. In addition, each dean, director, department chairperson, executive officer, administrator, or other person with supervisory responsibility shall be required to report any complaint of sexual harassment to an individual or individuals to be designated in the procedures. All members of the University community are required to cooperate in any investigation of a sexual harassment complaint.
Enforcement
There is a range of corrective actions and penalties available to the University for violations of this policy. Students, faculty, or staff who are found, following applicable disciplinary proceedings, to have violated this policy are subject to various penalties, including termination of employment and permanent dismissal from the University.

Sexual Harassment Panel
The President has designated the following persons to serve on the College Sexual Harassment Panel. Complaints of sexual harassment may be made to any member of the panel.

**Dr. Elizabeth McCaffrey**
Coordinator
Counseling and Advisement
B Building 997-5421

**Professor Helen Cairns**
Deputy Coordinator
Linguistics & Communication Disorders
Kissena Hall 347 997-2870

**Mr. Inderpal Walia**
Weekend College
Kiely Hall, Room 137 997-4848

**Professor Elaine Ludman**
Family, Nutrition, and Exercise Sciences
Renssen Hall, Room 306 997-4150

**Ms. Rena Smith-Kiawu**
Financial Aid
Jefferson Hall, Room 206 997-5100

Two students also serve on the panel. Please contact the Dean of Students’ Office for their names.

Confidentiality
The privacy of individuals who bring complaints of sexual harassment, who are accused of sexual harassment, or who are otherwise involved in the complaint process should be respected, and information obtained in connection with the bringing, investigation, or resolution of complaints should be handled as confidentially as possible. It is not possible, however, to guarantee absolute confidentiality and no such promises should be made by any member of the Panel or other University employee who may be involved in the complaint process.

Making a Complaint of Sexual Harassment
Any member of the University community may report allegations of sexual harassment to any member of the Panel. Employees who are covered by collective bargaining agreements may either use their contractual grievance procedures, within the time limits provided in those agreements, to report allegations of sexual harassment; or, they may report such allegations directly to a member of the Panel as provided in these Procedures. Members of the University community who believe themselves to be aggrieved under the Policy are strongly encouraged to report the allegations of sexual harassment as promptly as possible. Delay in making a complaint may make it more difficult for the college to investigate the allegations.

Responsibilities of Supervisors
(a) Each dean, director, department chairperson, executive officer, administrator, or other person with supervisory responsibility (hereinafter “supervisor”) is responsible within his or her area of jurisdiction for the implementation of the Policy and must report to the Panel Coordinator any complaint of sexual harassment made to him or her and any other incidents of sexual harassment of which he or she becomes aware or reasonably believes to exist. Having reported such complaint or incident to the Panel Coordinator, the supervisor should keep it confidential and not disclose it further, except as necessary during the complaint process.

(b) Each supervisor shall arrange for the posting, in his or her area, of the University policy against sexual harassment; the names, titles, telephone numbers, and office locations of college Panel members; and any other materials provided to him or her by the Sexual Harassment Education Committee for posting.

Responsibilities of the University Community-At-Large
Members of the University Community who become aware of allegations of sexual harassment should encourage the aggrieved individual to report the alleged sexual harassment to a member of the Panel.

COMPLAINT PROCEDURES

Student Complaints
Student complaints are heard initially by the Dean of Students. A student with a complaint is generally able to get an appointment within 72 hours and often sooner. When the student does not want to file a formal complaint or grievance, the Dean will act as an ombudsman or mediator in an effort to work out the problem and obtain a satisfactory outcome or get an answer for the student. To file a formal complaint, the student fills out a complaint/problem sheet with the Dean of Students Office, and the Dean or the appropriate College official(s) then looks into the complaint and provides the student with a response within two weeks, often sooner. The College official(s) providing a final determination will not be a person (or persons) involved in the alleged problem. Filing a complaint can never result in adverse action taken against the student for filing the complaint.

Documentation concerning each formal College complaint and its disposition will be kept for a period of at least six years.

Any student may also file a complaint with the Education Department of the State of New York.

SUBSTANCE ABUSE
The following program, in compliance with the Drug-Free Schools and Campuses Act Amendments of 1989 (Public Law 101-226), has been adopted and implemented at Queens College to prevent the illicit use of drugs and abuse of alcohol and tobacco by students and employees. Copies of this statement will be made available to all Queens College students and employees.

Smoke-Free Policy
The City University has adopted a no smoking policy that prohibits smoking in all buildings throughout the CUNY system.

Drug, Alcohol, and Tobacco Use

Standards of Conduct: The legislature of the State of New York and federal statutes have made the possession, sale, or purchase of certain drugs without authorization a crime. New York law prohibits selling or giving alcohol to any “visibly intoxicated person.” The possession and
consumption of alcohol is illegal under state law for those under 21 years of age.

All members of the College community are expected to abide by the laws of the city, state, and federal government (Board of Trustees Bylaws, Article XV, Section 15.1). The College will not serve as a sanctuary and cannot insulate its members from the consequences of illegal acts. Queens College will not protect students or other members of the College community from prosecution under the law. All members of the College community are expected to abide by the city, state, and federal statutes that have made the possession, sale, or purchase of illegal drugs a crime. Students are expected to comply with the Rules and Regulations for the Maintenance of Public Order, which appear on page 38.

It is illegal to sell tobacco products to any person under the age of 18 in New York State.

Sanctions – Students: Any student found in violation of the above mentioned Rules and Regulations may be subject to disciplinary action. Sanctions for violation may include admonition, warning, censure, discipline, probation, restitution, suspension, expulsion, complaint to civil authorities, and ejection. These sanctions are defined on page 39.

A student who is experiencing difficulty with alcohol or chemical dependency may be referred to the Dean of Students or the Counseling and Advisement Center by members of the instructional staff or may seek assistance directly. The Dean of Students may take disciplinary action as required or may recommend that the student meet with a counselor for appropriate referral or assistance through self-help organizations or other outside intervention agencies. Serious health risks, documented by the medical community, accompany the use and abuse of alcohol and drugs.

Sanctions – Employees: The unlawful manufacture, distribution, dispensation, possession, or use of illegal drugs or other controlled substances and the unauthorized use of alcohol by employees in the workplace are prohibited. Employees of the University must also notify the Director of Human Resources of any criminal drug statute conviction for a violation occurring in the workplace not later than five days after such conviction.

Employees who are experiencing difficulty with alcohol or chemical dependency will, at the request of their supervisor, be asked to meet with a counselor. The counselor, after the interview, may recommend appropriate assistance through self-help organizations or other outside intervention such as drug rehabilitation or employee assistance programs. Employees may also seek assistance on their own. Serious health risks, documented by the medical community, accompany the use and abuse of alcohol and drugs. Employees found in violation of the Standards of Conduct referred to in this policy may be subject to discipline under the provisions of their Union contract and/or applicable College and University policy. The sanctions that will be imposed may include, in addition to those found in the various contracts, verified attendance and successful participation in a drug/alcohol assistance program.

Criminal Sanctions: The unlawful possession, use, or distribution of illicit drugs and alcohol is punished by harsh sanctions by the United States government and by the State of New York, which range from completion of an appropriate rehabilitation program through imprisonment.

Regarding illicit drugs, the seriousness of the offense and the penalty imposed upon conviction usually depend upon the individual drug and the amount of the drug held or sold. For example, in New York State the possession of four ounces of cocaine is a class A-1 felony, punishable by a minimum of 15 years and a maximum of life in prison. The sale of two ounces of cocaine will be similarly treated. The possession of more than eight ounces of marijuana is a class E felony, punishable by up to four years in prison, as is the sale of 25 grams of marijuana. It is important to be aware that, in New York, a gift of drugs, including marijuana, is treated as a sale. Federal penalties are similar to those assessed by the State.

Criminal penalties may also result from the misuse of alcoholic beverages. In New York, if you give or sell an alcoholic beverage to a person less than 21 years old, you are committing a class B misdemeanor, punishable by up to three months in jail and a $500 fine. Any sale of any kind of alcoholic beverage without a license or permit is also a misdemeanor punishable by a fine, a jail term, or both. If you are under the age of 21, you are prohibited from possessing alcoholic beverages with intent to consume them. Each violation is punishable by a $50 fine.

The beverages may also be seized and destroyed by internal or external authorities. You can be fined up to $100 and required to perform community service if you are under 21 and present a falsified proof when attempting to purchase alcoholic beverages, and you can have your driver’s license suspended for up to 90 days if you use the license to try to purchase alcohol illegally.

These are only examples of the penalties that can be assessed against you. You should also know that it is the University’s policy to discourage violations of federal, state, and city laws. Where appropriate, the University will refer persons who violate such laws for prosecution to the relevant governmental authorities and will cooperate fully with such authorities.

Campus/Community-Based Services: These services and information centers for alcohol and drug abuse are available to all members of the College community: Counseling and Advisement Center, B Building (997-5420); Health Service Center, FitzGerald Gym 204 (997-2760); Office of Human Resources, Kiely Hall 163 (997-4455).

OTHER REGULATIONS

Computer Use: The following regulations are intended for anyone who has been authorized to use a computer owned by or purchased with grant funds administered by the College. This includes students who have registered for courses requiring the use of a computer; faculty and staff who have been assigned computers or computer accounts for the purposes of research or other scholarly activities; administrative and secretarial staff who are required to use computers in fulfilling their responsibilities; anyone who uses the Queens College microcomputer network; and all others permitted access to a computer.
REGULATIONS REGARDING USE OF COMPUTING FACILITIES

Queens College maintains several computers for academic and administrative use. The security and good working order of these tools depend on responsible care and use by those who are accorded the privilege of using them. Proper use, in part, means:

1. Only valid Queens College ID bearer or other authorized persons may use the computing facilities. Users are required to present a valid ID upon request of computing facility personnel.

2. Queens College computing facilities are to be used strictly for those academic or administrative purposes that are established and approved when an account is granted or use is permitted.

3. Users are responsible for maintaining exclusive access to their accounts by ensuring that no one else is permitted the opportunity to learn their passwords. Periodically changing your password to protect your account is strongly urged. If your account is used improperly by someone else, you may lose the account.

4. Electronic mail or memo facilities shall not be used for transmitting any form of obscene or threatening messages, or to send multiuser-directed advertisements or announcements, or for other illegal purposes.

5. The writing of code or execution of instructions that threaten system integrity or security, cause harm to the system or users’ files, or cause excessive or wasteful use of computer resources such as memory, CPU time, or output pages is strictly prohibited.

6. The computer should not be used for pranks or practical jokes or to gain unauthorized entry to other computers.

7. Use of computers for commercial gain is not permitted.

8. Theft or accessory to theft of equipment, documentation, supplies, or another person’s files, programs, or output may result in criminal prosecution or other disciplinary action.

9. Users should use and maintain the computing facilities entrusted to them with care and good sense, and must refrain from smoking, eating, and drinking when using computing facilities. Users should be considerate of others.

10. Users are advised that it is Queens College policy that software that is copyrighted may not be copied, reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any human or computer language, in any form or by any means, in any part without prior written permission of the copyright holder. Backup copies with a copyright notation may be kept for that purpose only.

Disability or Pregnancy

A student who becomes disabled or pregnant should consider discussing with a counselor from the Office of the Dean of Students the various alternatives regarding current and future academic plans. Some of these alternatives are continuation of attendance, a leave of absence, or a program adjustment. A recommendation from a physician will help in determining what options are feasible. The recommendation, which would be filed in the Health Service Center, is useful information should the student require any medical services while on campus.

Student Integrity

Students found guilty of any form of academic dishonesty, such as plagiarism or cheating on an examination, are subject to discipline, including suspension or dismissal from the College. Any student who has been admitted on the basis of forgery or altered transcripts will be subject to dismissal.

For retention in the Graduate Division, students must show evidence of good character and those personal characteristics required to fulfill course and certification requirements. Performance in classes may be taken as evidence of these personal characteristics.

Gambling

Gambling in any form is not permitted on campus except as expressly permitted by State law.

Smoking

Smoking is prohibited in all classrooms, auditoriums, gymnasiums, hallways, elevators, restrooms, libraries, stores, and medical facilities on campus.

Religious Observance

Education Law 224-a states:

1. No persons shall be expelled from or be refused admission as a student to an institution of higher education for the reason that they are unable, because of their religious beliefs, to attend classes or to participate in any examination, study, or work requirements on a particular day or days.

2. Students in an institution of higher education who are unable, because of their religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.

3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to all students who are absent from school, because of their religious beliefs, an equivalent opportunity to make up any examination, study, or work requirements which they may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to said students such equivalent opportunity.

4. If classes, examinations, study, or work requirements are held on Friday after four o’clock post meridian or on Saturday, similar or makeup classes, examinations, study, or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study, or work requirements held on other days.

5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to students because of their availing themselves of the provisions of this section.

6. Students who are aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of their rights under this section.
RULES AND REGULATIONS FOR THE MAINTENANCE OF PUBLIC ORDER

“Each student enrolled or in attendance in any College, School, or Unit under the control of the Board and every student organization, association, publication, club, or chapter shall obey the laws of the City, State, and Nation, and the Bylaws and resolutions of the Board and the policies, regulations, and orders of the College.”

Bylaws, Board of Trustees

The attention of students, faculty, and staff is called to the Rules and Regulations for the Maintenance of Public Order below:

Adopted by the Board of Trustees, June 23, 1969, with subsequent amendments. The tradition of the university as a sanctuary of academic freedom and center of informed discussion is an honored one, to be guarded vigilantly. The basic significance of that sanctuary lies in the protection of intellectual freedoms; the rights of professors to teach, of scholars to engage in the advancement of knowledge, of students to learn and to express their views, free from external pressures of interference. These freedoms can flourish only in an atmosphere of mutual respect, civility, and trust among teachers and students, only when members of the university community are willing to accept self-restraint and reciprocity as the condition upon which they share in its intellectual autonomy.

Academic freedom and the sanctuary of the university campus extend to all who share these aims and responsibilities. They cannot be invoked by those who would subordinate intellectual freedom to political ends, or who violate the norms of conduct established to protect that freedom. Against such offenders the university has the right, and indeed the obligation, to defend itself. We accordingly announce the following rules and regulations to be in effect at each of our colleges, which are to be administered in accordance with the requirements of due process as provided in the Bylaws of the Board of Trustees.

With respect to enforcement of these rules and regulations we note that the Bylaws of the Board of Trustees provide that:

THE PRESIDENT. The president, with respect to his/her educational unit, shall:

“a. Have the affirmative responsibility of conserving and enhancing the educational standards of the College and schools under his/her jurisdiction;

“b. Be the adviser and executive agent to the Board and of his/her respective College committee and as such shall have the immediate supervision with full discretionary power in carrying into effect the bylaws, resolutions and policies of the Board, the lawful resolutions of any of its committees and the policies, programs, and lawful resolutions of the several faculties;

“c. Exercise general superintendence over the concerns, officers, employees, and students of his/her educational unit.”

I. RULES

1. Members of the academic community shall not intentionally obstruct and/or forcibly prevent others from the exercise of their rights. Nor shall they interfere with the institution’s educational process or facilities or the rights of those who wish to avail themselves of any of the institution’s instructional, personal, administrative, recreational, and community services.

2. Individuals are liable for failure to comply with lawful directions issued by representatives of the University/College when they are acting in their official capacities. Members of the academic community are required to show their identification cards when requested to do so by an official of the College.

3. Unauthorized occupancy of University/College facilities or blocking access to or from such areas is prohibited. Permission from appropriate College authorities must be obtained for removal, relocation, and use of University/College equipment and/or supplies.

4. Theft from or damage to University/College premises or property, or theft of or damage to property of any person on University/College premises is prohibited.

5. Members of the academic community or their invited guests have the right to advocate a position without having to fear abuse, physical, verbal, or otherwise, from others supporting conflicting points of view. Members of the academic community and other persons on the College grounds shall not use language or take actions reasonably likely to provoke or encourage physical violence by demonstrators, those demonstrated against, or spectators.

6. Action may be taken against any and all persons who have no legitimate reason for their presence on any campus within the University/College, or whose presence on any such campus obstructs and/or forcibly prevents others from the exercise of their rights or interferes with the institution’s educational processes or facilities, or the rights of those who wish to avail themselves of any of the institution’s instructional, personal, administrative, recreational, and community services.

7. Disorderly or indecent conduct on University/College-owned or -controlled property is prohibited.

8. No individual shall have in his possession a rifle, shotgun, or firearm or knowingly have in his possession any other dangerous instrument or material that can be used to inflict bodily harm on an individual or damage upon a building or the grounds of the University/College without the written authorization of such educational institution. Nor shall any individual have in his possession any other instrument or material which can be used and is intended to inflict bodily harm on an individual or damage upon a building or the grounds of the University/College.

9. Any action or situation which recklessly or intentionally endangers mental or physical health or involves the forced consumption of liquor or drugs for the purpose of initiation or affiliation with any organization is prohibited.

10. The unlawful manufacture, distribution, dispensation, possession, or use of illegal drugs or other controlled substances by University employees in the workplace is prohibited. Employees of the University must also notify the College Personnel Director of any criminal drug statute conviction for a violation occurring in the workplace not later than five (5) days after such conviction.

11. The unlawful possession, use, or distribution of alcohol by students or employees on University/College premises or as part of any University/College activities is prohibited.
II. PENALTIES

1. Any student engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be subject to the following range of sanctions as hereafter defined in the Appendix below: admonition, warning, censure, disciplinary probation, restitution, suspension, expulsion, ejection, and/or arrest by the civil authorities.

2. Any tenured or non-tenured faculty member, or tenured or non-tenured member of the administrative or custodial staff, engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be subject to the following range of penalties: warning, censure, restitution, fine not exceeding those permitted by law or by the Bylaws of the City University, suspension with/without pay pending a hearing before an appropriate college authority, dismissal after a hearing, ejection, and/or arrest by the civil authorities, and, for engaging in any manner in conduct prohibited under substantive rule 10, may, in the alternative, be required to participate satisfactorily in an appropriately licensed drug treatment or rehabilitation program. In addition, a tenured faculty member, or tenured member of the administrative or custodial staff, engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be entitled to be treated in accordance with applicable provisions of the Education Law or Civil Service Law.

3. Any visitor, licensee, or invitee engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be subject to ejection and/or arrest by the civil authorities.

4. Any organization that authorizes the conduct prohibited under substantive Rules 1-11 shall have its permission to operate on campus rescinded.

Penalties 1-4 shall be in addition to any other penalty provided by law or the City University.

APPENDIX
Sanctions defined:

A. Admonition. An oral statement to the offender that he has violated university rules.

B. Warning. Notice to the offender, orally or in writing, that continuation or repetition of the wrongful conduct, within a period of time stated in the warning, may be cause for more severe disciplinary action.

C. Censure. Written reprimand for violation of specified regulation, including the possibility of more severe disciplinary sanction in the event of conviction for the violation of any university regulation within a period stated in the letter of reprimand.

D. Disciplinary Probation. Exclusion from participation in privileges or extracurricular university activities as set forth in the notice of disciplinary probation for a specified period of time.

E. Restitution. Reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damages.

F. Suspension. Exclusion from classes and other privileges or activities as set forth in the notice of suspension for a definite period of time.

G. Expulsion. Termination of student status for an indefinite period. The conditions of readmission, if any is permitted, shall be stated in the order of expulsion.

H. Complaint to Civil Authorities.

I. Ejection.

Resolved. That a copy of these rules and regulations be filed with the Regents of the State of New York and with the Commissioner of Education.

Resolved. That these rules and regulations be incorporated in each college bulletin.
Scheduling information for courses listed is based on information available when the Bulletin went to press. For possible changes and for details on courses designated † (offered either Fall or Spring) or †† (may be offered), consult the current semester’s Class Schedule, available at the Office of the Registrar just before registration periods.

Curricula are subject to change. Students are advised to check with the departmental office for the most current program requirements and course descriptions.

Course Levels
500-level courses are special purpose courses; graduate students may take these courses at the discretion of departments. 500-level courses cannot be credited toward the Master of Arts, Master of Arts in Liberal Studies, Master of Arts in the Social Sciences, Master of Fine Arts, or Master of Library Science degrees, and are counted toward the Master of Science in Education degree only under specified circumstances.

600-level courses are introductory graduate courses.

700-level courses are intended primarily for Master’s degree and first-level doctoral students.

Undergraduate Students in Graduate Courses
Graduate 500- and 600-level courses may be taken by undergraduate students provided that all prerequisites are met and departmental permission is obtained.

Upper-division undergraduate students may be admitted to 700-level graduate courses, other than Education courses, provided they have a minimum cumulative average of B and the permission of the Chair or Graduate Adviser of the department offering the course.

For graduate Education courses at the 700 level, students must have the permission of the Chair and the Dean of the Division of Education. In specific cases, additional prerequisites may be required. With appropriate approval, graduate courses can be counted toward the undergraduate degree.

In some circumstances it is possible that graduate course credits taken by a Queens College undergraduate can be applied toward the Master’s degree instead of toward the undergraduate degree. In such circumstances, the graduate course credits must be in excess of the 120 credits required for the undergraduate degree. In addition, graduate courses cannot be counted toward the undergraduate major or used to meet other requirements.

A Queens College undergraduate who takes graduate courses and later receives approval to use those courses toward the graduate degree will be billed accordingly at the graduate level for the difference in tuition fees. For additional information, undergraduate students should consult the Department Chair or Graduate Adviser.

Graduate Students in Undergraduate Courses
Graduate students should be aware that undergraduate courses do not accrue credits toward a graduate degree or an advanced certificate.

Graduate Center Courses
The letter “U” preceding a course number indicates that this is a doctoral course. Students must register for doctoral courses through the Graduate Center. These courses may be taken by students who have the prerequisites, whether or not they intend to continue for the doctoral degree. Students are advised to complete a permit form before registering at the Graduate Center. (See page 11, Transfer Credits and Permits.)

Overlapping Courses
Academic policy as passed by the Senate of the College prohibits registration into courses with overlapping schedules. Students who register into courses that overlap will be dropped from one of the courses. No exceptions will be made.

DO NOT register for overlapping courses since you WILL BE DROPPED from one of the courses.
ACCOUNTING & INFORMATION SYSTEMS

Chair: Israel Blumenfrucht
Graduate Program Director: John P. Walker

The Master of Science Program in Accounting is certified by the New York State Education Department under HEGIS No. 0502.00. This 30-credit program provides advanced education in Accounting and related areas so that the student completing this program (following a suitable undergraduate program in Accounting) will meet the fundamental requirements for taking the Uniform CPA Examination in New York State. Further, students successfully completing the program will be well prepared for careers in public, private, or governmental accounting, or for the teaching of accountancy in secondary schools. The Queens College M.S. in Accounting builds upon successful completion of an undergraduate program in Accounting. In addition to the technically oriented courses in Accounting and Economics, the Queens College M.S. in Accounting Program allows a set of elective courses outside the technical areas, in liberal arts disciplines, that provide a broader background for the professional accountant.

Faculty
Blumenfrucht, Israel, Chair, Professor, Ph.D. 1981, New York University, CPA: taxation
Walker, John P., Graduate Program Director, Professor, Ph.D. 1976, University of Cincinnati, CPA: auditing
Adelberg, Arthur H., Professor, Ph.D. 1977, City University of New York, CPA: managerial accounting
Dauber, Nicky A., Lecturer, M.S. 1982, C.W. Post Institute of Finance, CPA: auditing
Davidovits, Murray, Lecturer, J.D. 1983, New York University School of Law: law
Erlach, David, Assistant Professor, Ph.D. 1997, University of San Jose: financial accounting
Hitzig, Neal, Professor, Ph.D. 1985, City University of New York, CPA: business
Hornung, David, Lecturer, M.B.A. 1975, Baruch College: financial accounting
Kim, Chansog, Assistant Professor, Ph.D. 1994, City University of New York: information systems
Klinger, Carol D., Lecturer, M.S. 1978, C.W. Post: CPA: information systems
Leibowicz, Barry, Associate Professor, L.L.M. 1973, New York University School of Law: taxation
Levine, Marc H., Professor, Ph.D. 1983, Yeshiva University, CPA: financial accounting
Milich, Marvin F., Associate Professor, J.D. 1971, New York University School of Law: law
Qureshi, Anique, Associate Professor, Ph.D. 1993, Rutgers University, CPA: managerial accounting
Siegel, Joel, Professor, Ph.D. 1977, City University of New York, CPA: financial accounting
Simon, Abraham J., Professor, Ph.D. 1971, University of Pennsylvania, CPA: governmental accounting

MASTER OF SCIENCE PROGRAM
Requirements for Matriculation
These requirements are in addition to the general requirements for admission.
1. An undergraduate degree (B.A. or B.S.) in accounting from an accredited college or university.
2. Students should have earned an overall GPA of at least 3.0 in their undergraduate program, as well as a CPA of at least 3.0 in their undergraduate accounting courses.

Requirements for the Master of Science Degree
Completion of a minimum of 30 graduate course credits with a minimum overall GPA of 3.0, including:
- a) The three required courses (9 credits) in Accounting:
  - 723. Advanced Auditing Theory and Practice
  - 757. Taxation of Business Entities
- b) The two required courses (6 credits) in Economics:
  - Economics 703. Price & Distribution Theory
  - Economics 715. Corporate Finance
- c) One course (3 credits) from the following set of Economics courses:
  - Economics 705. Mathematical Economics
  - Economics 721. Econometrics
  - Economics 726. Introduction to Operations Research
- d) Four courses (12 credits) from among the following set, at least two of which must be from Accounting and/or Economics, and of the remaining two, only one may be from a given department unless special permission is granted by the candidate's adviser:
  - Accounting 707. Contemporary Issues in Management Accounting
  - Accounting 747. Communications and Accountants
  - Accounting 748. Advanced Accounting Information Systems
  - Accounting 751. Public Interest Law

Courses in Accounting
707. Contemporary Issues in Management Accounting, 3 hr.; 3 cr. The purpose of this course is to build upon the basic concepts of management accounting introduced in Accounting 305/306. The most current theories and practices that comprise Accounting 707 have been developed over the past decade in response to rapid changes in the external and internal environment that business organizations face. Accounting 707 will examine in depth the most recent management accounting literature with respect to: 1) information that managers need for decision making, and 2) the role of the management accountant in the accumulation, analysis, and use of that information.

712. Advanced Financial Accounting Theory, 3 hr.; 3 cr. The emphasis of this course is on the examination of current issues and research methodologies related to accounting theory in such areas as the objectives of financial statements, financial statement elements, asset-valuation concepts, income-determination models, and cutting-edge topics under scrutiny by the accounting profession. Students will analyze the literature in accounting theory relating to current pronouncements of the Financial Accounting Standards Board and prior pronouncements of the Accounting Principles Board and Committee on Accounting Procedure. A primary focus will be the application and influence of accounting theory on the development of current Generally Accepted Accounting Principles and corporate financial reporting.

723. Advanced Auditing Theory and Practice, 3 hr.; 3 cr. This course focuses on the philosophical aspects of the professional
accountant’s relationship with clients and third parties. Accordingly, The Code of Professional Conduct issued by the American Institute of CPAs (AICPA) is examined in detail. The auditing pronouncements issued by the AICPA are analyzed in detail. Requirements of the Securities and Exchange Commission are also explored. Other areas scrutinized are compilation and review, attestation engagements, statistical sampling and auditing in an electronic data processing environment. The case method is used in solving problems of a more complex nature.

747. Communications and Accountants. 3 hr.; 3 cr. The examination, both verbally and non-verbally, of communications required in the business life of an accountant. The objectives of this course will be to enhance the ability to write, speak, and listen more effectively in the business environment. Topics covered will be writing a resume and a job application for an accounting position, writing instructions to staff for an audit, writing a letter to a client on the results of an audit, preparing an analysis of an annual report, communicating during an interview and a business meeting, listening skills, and preparing a financial presentation with multimedia aids.

748. Advanced Accounting Information Systems. 3 hr.; 3 cr. Methods and techniques of using accounting as an information system. The design, analysis, installation, and evaluation of a system, either manual or computer-based, will be covered. Topics will include accounting systems theory, design theory, accounting file structure, implementation, maintenance, and evaluation of the system. General ledger software and database programs will be discussed and used in the classroom. The use of the Internet and expert systems as they relate to accounting information will be included.

751. Public Interest Law. 3 hr.; 3 cr. This course seeks to examine the various aspects of Public Interest Law. It will study public institutions and the phenomenon of bureaucracy in order to gain some understanding of the public law system. Emphasis will focus on the relationship of the government and its citizens with respect to a variety of specific areas of concern. Topics will include: Administrative Law; Civil Rights and Civil Liberties, Law and Education, Immigration Law, Consumer Protection, Environmental Law, Poverty Law, Disability Rights, Children and the Law, and International Human Rights.

757. Taxation of Business Entities. 3 hr.; 3 cr. This course focuses on the taxation of the primary forms of business entities: sole proprietorship, corporations, including S corporations, and partnerships, including limited liability companies (LLCs). The decision process necessary to select a particular type of business entity as well as the tax advantages and disadvantages inherent in the operations, liquidation, and termination of these entities will be stressed. Emphasis is placed on tax planning, problem solving, and research.

758. State and Local Taxation. 3 hr.; 3 cr. This course examines the law of state and local taxation with a particular emphasis on the Tax Laws of the State of New York. Income, Corporate Franchise, Inheritance and Sales Taxes are studied where appropriate, distinguished from the rules of Federal Taxation that apply. Both Substantive and Procedural rules are studied. Problems of multi-state residence and taxation, related constitutional issues and conflict of laws are studied. The course addresses ongoing compliance issues as well as tax dispute resolution mechanisms such as making and pleading disputes to the Tax Tribunal.

759. Estate and Gift Taxation and Administration. 3 hr.; 3 cr. This course focuses on the rules and regulations governing Estate and Gift Taxation and the administration of estates. Topics covered include the rules and regulations governing gifts and bequests, both from the standpoint of tax compliance and tax planning. The administrative rules governing probate administration are covered, as is the role of the accountant in the administrative process.

770. Urban Economics: Tools, Methodology, and Applications. 2 hr. plus conference; 3 cr. Introduces students to major subject areas, theories, and research tools of urban and regional economics and their applications.††

Courses in Other Departments
(see department listings for complete course information)

Computer Science 615. Survey of Information Technology.


Philosophy 760. Business Ethics.

Political Science 640. Public Administration.

Political Science 715. Organization Theory.

Psychology 754. Behavioral Science and Business.

Sociology 716. Professional Writing and Communication for Social Research.


Urban Studies 742. Public Budgeting.

†-Offered either Fall or Spring; see Class Schedule.

††-May be offered; see Class Schedule.
Art History: Klapper Hall 168, 997-4803

Cohen, Arthur M., Professor
Lane, Barbara G., Professor, Ph.D. 1970, University of Pennsylvania: Medieval art, Northern Renaissance
Lin, Xiaoping, Assistant Professor, Ph.D. 1993, Yale University: Chinese painting
Magid, Eleanor A., Professor, M.F.A. 1984, Brooklyn College: drawing, graphics, photography
Mitchell, Tyrone, Associate Professor
Porter, Liliana, Professor, M.F.A. 1962, Universidad Iberoamericana: printmaking, drawing
Priestly, Debra, Assistant Professor, M.F.A. 1996, Pratt Institute: painting, drawing
Slatkes, Leonard J., Distinguished Professor, Ph.D. 1962, University of Utrecht: Northern Renaissance, Northern Baroque, history of graphics
Snider, Jenny R., Associate Professor, M.F.A. 1966, Yale University: painting, drawing, design
Sund, Judy, Associate Professor, Ph.D. 1986, Columbia University: nineteenth-century art

Requirements for the Master of Arts Degree

These requirements are in addition to the general requirements for the Master of Arts degree. Full details about program policies and expectations may be found in the handbook for M.A. candidates; each incoming student may obtain a copy of this handbook from the Department office and is responsible for all schedules and guidelines outlined it.

1. Incoming students are assigned a faculty adviser for guidance in working out a course of study; students must consult with the adviser each semester and have their program approved before registration. Programs will be planned to allow for concentration on a field of special interest with, at the same time, a balanced range of study in other areas. Students must pass at least one course in three of the five broad areas of study: Ancient, Medieval, Renaissance-Baroque, Modern, and Asia/Americas.

2. Students accepted for matriculation in the program are required to pass a Qualifying Examination during their first semester. This examination, which is normally given during the opening weeks of each term, is intended to demonstrate general competence in art history. In case of failure, this examination may be retaken during the student’s second semester. Students failing twice may request the Graduate Committee for a third attempt, but may be asked to withdraw from the program.

3. Art 740 (Methods Colloquium) is required of all students who have not taken a comparable undergraduate course in art-historical methods; the course must be taken during the student’s first year.

4. Of the 30 credits required for the degree, 24 must be in Art History. The remaining six credits may be taken in other departments (e.g., history, literature), with the approval of the adviser. The auditing of courses in Art History and at the College is recommended.

5. At least two of the courses in Art History must be seminars.

6. Not later than the completion of the first 15 credits, each student must complete two college-level semesters of a second foreign language, or the equivalent, with a grade of B or better. The second foreign language must be chosen in consultation with the student’s adviser.

7. A thesis is required. The student must obtain permission from an appropriate faculty member willing to serve as thesis adviser, who may be different from the student’s academic adviser. After arriving at a suitable topic, the student must submit to the Graduate Committee a brief abstract approved by the thesis adviser. Every thesis must also have a second faculty reader, who should be consulted before the thesis is begun.

ART

Chair: James Saslow

Graduate Advisers: See Department

Dept. Office: Klapper Hall 172, 997-4800

Art History: Klapper Hall 168, 997-4803

Studio Art: Klapper Hall 172, 997-4800

The Master of Arts Program in Art History is designed to prepare students to meet the specialized requirements of work in museums, galleries, auction houses, publishing, and teaching. This program deepens students’ insights into the history of art as a whole and provides them with opportunities to develop research skills in specific areas under the direction of scholars in those fields. Students who complete the program are qualified to enter Ph.D. programs.

The Master of Fine Arts Program in Studio Art is designed to assist serious artists in the development of their work. The heart of the program is independent work in the fine arts in the student’s chosen specialty, complemented by required courses and electives. Attendance usually is full time with four semesters required to complete the program. Admission is selective, limited to those who have already demonstrated both a commitment to art and the promise of further development. Students are provided with individual studios and share additional workspace in wood, printmaking, and metal workshops. Shared ceramics, computer, and photography facilities are also available.

The M.F.A. degree is generally recognized as the appropriate academic credential for teaching art in college.

The Art Department also provides both art history and studio courses to students seeking the Master of Science in Education degree.

Faculty

Saslow, James M., Chair, Professor, Ph.D. 1983, Columbia University: Italian Renaissance
Carlson, Cynthia J., Professor, M.F.A. 1967, Pratt Institute: painting, drawing, design
Chave, Anna C., Professor, Ph.D. 1982, Yale University: twentieth-century art
Clark, William W., Professor, Ph.D. 1970, Columbia University: Medieval art, architecture
Cohen, Arthur M., Professor, M.F.A. 1969, Indiana University: painting, drawing, design
Connor, Maureen, Professor, M.F.A., 1973, Pratt Institute: sculpture
Hofstad, Jolyon G., Professor, Brooklyn Museum of Art School: ceramics, three-dimensional design
Hoshino, Marvin, Professor, M.F.A. 1972, Indiana University: graphic design

MASTER OF ARTS PROGRAM IN ART HISTORY

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

1. The applicant must be approved by the departmental committee on Graduate Study in Art History, which has the authority to recommend acceptance or rejection to the Office of Graduate Admissions. In making its selection, the committee will consider such factors as breadth and depth of preparation, level of achievement, and the suitability of the applicant’s interests to the curriculum.

2. Applicants must have completed a minimum of four courses (normally 12 credits) in Art History beyond the introductory level.

3. Applicants must have completed at least two documented semesters of college-level study of a foreign language or the equivalent; equivalencies will be determined by the Graduate Committee. Applicants whose native language is not English may satisfy the first foreign language requirement with a TOEFL score of 575 or higher.

4. A student may be conditionally admitted with the stipulation that any deficiencies in preparation be removed in the first year.
MASTER OF FINE ARTS PROGRAM
Requirements for Matriculation

These requirements are in addition to the general requirements for admission to the Master of Arts Program. Alternatively, the Bachelor of Fine Arts degree from a recognized institution shall be considered as an acceptable equivalent for the general requirements of the B.A., subject to the determination of the Departmental M.F.A. Committee in concurrence with the Office of Graduate Studies.

1. In addition to three letters of reference, each candidate for admission shall submit a portfolio of work as prescribed by the Departmental M.F.A. Committee. This portfolio shall be examined by the Committee, which shall have the authority to accept or reject the candidate.

2. Undergraduate study should consist of at least 30 credits in art; students shall have taken the equivalent of a two-semester survey course plus two elective courses in the history of art.

3. Normally, each candidate for admission will be interviewed by a member of the Departmental M.F.A. Committee. This requirement may be waived at the department’s option.

4. Applicants must demonstrate satisfactory standards of spoken and written English. For applicants whose first language is not English: a) Interviews are required of those applicants who hold an undergraduate or graduate degree from an accredited American institution of higher education; b) All other applicants must submit proof of having achieved a score of 600 or higher on the Test of English as a Foreign Language (TOEFL).

Requirements for the M.F.A.

1. Completion of 54 credits consisting of the following:
   a. Two courses in the history of art. (See Graduate Art History Electives.)
   c. Three seminar courses (a total of 9 credits), each with a different topic, must be taken under Art 730 and/or 731.
   d. Two elective courses to be selected with departmental approval from Art 725, 726, 727.1, 727.2, 728.
   e. Advanced Problems in Drawing (Art 735) must be taken twice for a total of 6 credits.
   f. The remaining 24 credits will be taken in the student’s area of concentration:  
      For Painting or Mixed Media Concentration: Art 721.1, 721.2, 721.3, 721.4
      For Sculpture or Installation Concentration: Art 722.1, 722.2, 722.3, 722.4
   Student work in the specialized area shall be reviewed and graded by the Departmental M.F.A. Committee each semester. This Committee shall be authorized to approve or reject a student for continuation in the program, to place a student on probation, and to approve a student for the M.F.A. degree.

2. A grade index of 3.0 shall be maintained.

3. Participation in the program is full time except as approved by the M.F.A. Committee, and the degree is normally completed within two years.

4. Students will do all of their creative work on campus except by permission of the Committee.

Courses in Art History

Courses numbered in the 500s (see Art Education, below) are intended for graduate students whose primary area of study is not art history, including M.F.A. candidates; these courses may not be credited toward the Master of Arts degree in Art History.

Matriculation for the Master of Arts degree in Art History or permission of the instructor is required for admission to courses at the 700 level, which assume a good background in art history and, in some instances, the ability to read in foreign languages. In addition, seminars and Art 740 assume prior study in the area and a knowledge of appropriate languages. Students will be expected to do independent work and present reports and an extended paper. Admission to seminars for all students is by permission of the instructor.

Not all courses will be offered each semester. Consult the Art Department for announcements of forthcoming offerings. In the past, course topics have ranged from major artists like Michelangelo and Vermeer, to seminars in women’s imagery and mythology, to lecture courses on numerous periods and cultures worldwide.

700. Museum Studies, 3 hr.; 3 cr.  
The course will acquaint students with museum work by providing supervised participation in the functioning of the Godwin-Ternbach Museum. Students will engage in such museum activities as the preparation of exhibitions and care of the collection. Practical experience will be supplemented by lectures.

701. Topics in the History of Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

702. Seminar in the History of Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

740. Art History Methods Colloquium, 2 hr. plus conf.; 3 cr.  
Prereq.: Permission of the instructor. The basic problems and techniques of art historical scholarship, stylistic and iconographic analysis, sources, and documentation.

770. The Major Artist, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The artist to be studied will be announced each time the course is given. May be repeated for credit when the topic is different.

Courses in Ancient Art

741.1. Ancient Painting, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor. Greek and Roman paintings and mosaics, with emphasis on Roman wall decoration, its origins and originality.

741.2. Greek Sculpture, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The leading masters and centers: Athens, Olympia, Delphi, Pergamon.

741.4. Studies in Ancient Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

751.1-751.9. Seminar in Ancient Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Permission of the instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.

Courses in Medieval Art

742.1. Late Antique and Early Medieval Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor.

742.2. Gothic Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of the instructor. Stylistic evolution in architecture, sculpture, the minor arts, or painting.

742.3. Studies in Medieval Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

752.1-752.9. Seminar in Medieval Art, 2 hr. plus conf.; 3 cr.  
Prereq.: Permission of
the instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.

Courses in Renaissance and Baroque Art

743.2. Art of the High Renaissance in Italy. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor.

743.3. Renaissance and Baroque Architecture. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. Development of the classical tradition from 1400 to 1800 and its spread across the globe.

743.4. Early Dutch Painting. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor.

743.5. Studies in Renaissance Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

744.1. Dutch Painting in the Seventeenth Century. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor.

744.2. Italian Painting in the Seventeenth Century. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. Antimannerist reform, the Carracci, Caravaggio, and the impact of their styles on later generations.

744.3. Studies in Baroque Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

753.1-753.9. Seminar in Renaissance Art. 2 hr. plus conf.; 3 cr. Prereq.: Permission of instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.

754.1-754.9. Seminar in Baroque Art. 2 hr. plus conf.; 3 cr. Prereq.: Permission of instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.

Courses in Modern Art

745.1. Impressionism and Post-Impressionism. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor.

745.3. Modern Architecture. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor.

745.4. Art of the United States from the Colonial Era to 1900. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor.

745.6. Studies in 18th-Century Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

745.7. Studies in Modern Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

745.8. Studies in Contemporary Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

747.1. Studies in Asian Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

747.2. Studies in Chinese Art and Architecture. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

747.3. Studies in Japanese Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

747.4. Studies in Indian Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

747.6. Studies in Andean Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

755.1. Seminar in 18th-Century Art. 2 hr. plus conf.; 3 cr. Prereq.: Permission of the instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.

755.2-755.5. Seminar in Modern Art. 2 hr. plus conf.; 3 cr. Prereq.: Permission of the instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.

755.6. Seminar in Contemporary Art. 2 hr. plus conf.; 3 cr. Prereq.: Permission of the instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.

755.7. Seminar in Art of the United States. 2 hr. plus conf.; 3 cr. Prereq.: Permission of the instructor. The particular area to be studied will vary and will be announced prior to each offering. May be repeated for credit when the topic is different.
ART

757.3. Seminar in Chinese Painting. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

757.4. Seminar in Contemporary Chinese Art. 2 hr. plus conf.; 3 cr. Prereq.: Matriculation for the M.A. in Art History or permission of instructor. The topic will vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

Independent Research

760. Special Problems. Hr. to be arranged; 3 cr. Work in some particular area of research for advanced candidates in Art History. Approval of the Departmental Committee on Graduate Study is required. A student may take only one course at this level.

760.1. Special Problems in Ancient Art.
760.2. Special Problems in Medieval Art.
760.3. Special Problems in Renaissance Art.
760.4. Special Problems in Baroque Art.
760.5. Special Problems in Modern Art.
760.6. Special Problems in American Art.
760.7. Special Problems in Photography.
760.8. Special Problems in Asian Art.
760.9. Special Problems in Art of the Americas.

790. Thesis. Hours to be arranged; 3 cr. Prereq.: Approval of a thesis adviser and Departmental Committee on Graduate Study. Supervised thesis writing.

M.F.A. Courses in Art

Specialized Courses

721. Individual Problems in Painting and/or Mixed Media.
721.1. Painting and/or Mixed Media I.
721.2. Painting and/or Mixed Media II.
721.3. Painting and/or Mixed Media III.
721.4. Painting and/or Mixed Media IV.
722. Individual Problems in Sculpture and Installation.
722.1. Sculpture and Installation I.
722.2. Sculpture and Installation II.
722.3. Sculpture and Installation III.
722.4. Sculpture and Installation IV. 6 hr. plus conf.; 6 cr. each semester. Prereq.: Matriculation in the M.F.A. program and completion of appropriate prior courses. In each of these courses the student will be assigned an instructor as adviser, with whom he or she shall meet weekly for criticism, as well as with visiting critics as assigned. The work of the final semester, either 721.4 or 722.4, shall be submitted in the form of a self-selected one-person exhibition of the course work for the Department Committee, and open to the College community, in lieu of a comprehensive examination.

Required Colloquium

724. Contemporary Issues in the Visual Arts. 3 hr.; 3 cr. Prereq.: A course in the history of modern art and permission of instructor. Limited to students matriculated in the M.F.A. program. Diverse critical views on selected topical issues concerning contemporary art will be discussed. Students will further be asked to locate, describe, and discuss their own work and one another’s work in relation to present-day art practices and concerns. A paper on an approved topic will be presented by each participant.

Elective Courses

713. Computer Imaging. 4 hr.; 3 cr. Prereq.: Permission of M.F.A. Committee. An introduction to basic concepts of computer graphics in the context of the full range of visual media traditions, with contemporary applications in the fine and applied arts. Individual projects will further define different areas inherent in the newer media.

727.1. Printmaking. Hr. to be arranged; 3 cr. Prereq.: Permission of M.F.A. Committee.

727.2. Photography. Hr. to be arranged; 3 cr. Prereq.: Permission of M.F.A. Committee. May be repeated for credit. This course is designed for graduate students who are interested in pursuing the study of photography, and to give them information which will allow them to use photography in conjunction with other mediums.

728. Sculpture Techniques. 4 hr.; 3 cr. Prereq.: Permission of M.F.A. Committee. Individual and group projects in metal casting, including investment and chasing; advanced technical problems in plaster; techniques of construction and assemblage in metal, wood, plastics.

729. Individual Criticism. Hr. to be arranged; 3 cr. Prereq.: Permission of the M.F.A. Committee. The work will consist of a particular topic or focus established between the individual student and a faculty member. It will not consist of work undertaken in either 721.1, 2, 3, 4, or 722.1, 2, 3, 4. May be repeated for credit.

Studio Seminars

730. Seminar in Problems of New Forms.
731. Seminar in Problems of Representation. 3 cr. each semester. Prereq.: Permission of M.F.A. Committee. In each of these areas a particular topic will be announced for study each semester. Each seminar includes execution of an appropriate project, the study of historical and recent precedents, and studio problems as indicated. A research paper may be assigned. May be repeated for credit if the topic is different. Seminars will comprise 60 contact hours each; however, meetings may be scheduled so that the course does not extend over the entire semester.

Drawing Course

735. Advanced Problems in Drawing. 4 hr.; 3 cr. Prereq.: Permission of M.F.A. Committee. May be repeated for credit. Drawing is taught with a variety of approaches, ranging from the more traditional, including life drawing, to conceptually oriented problems based upon the particular interests of the instructor or the student.

MASTER OF SCIENCE IN EDUCATION PROGRAM (ART EDUCATION)

Requirements for Admission

These requirements are in addition to the general requirements for admission.

1. Applicants must have the equivalent of 20 credits in studio art and at least 6 credits in art history, including a general survey of Western Art. The minimum grade-point average acceptable in these courses is B (3.0).

2. Two letters of recommendation and a 500-word statement of purpose are required. In addition, the applicant must submit a portfolio of art work consisting of 15 slides. The following information about each slide must be provided on a separate page: title (if any), size, material, and date. (Photos or other flat images, no larger than 10 x 13 inches may also be included and may be substituted for some of the slides).

3. Students should consult the listing under Secondary Education & Youth Services for education requirements for admission.

Requirements for the Degree

1. 15 credits of art courses on the graduate level are required for the degree.

2. Art History requirement: Of the 15 art credits, 3 credits (one course) must be in art history, to be chosen from 500- and 700-level course offerings.

3. Studio Art requirement: 12 credits from the graduate offerings in Studio Art are required. With permission of the Graduate Adviser, students may take Art 620,
ART

Special Projects in Design, and Art 621, Special Projects in Fine Arts. Without obtaining permission of the Graduate Adviser, students may take any offering in the M.F.A. program, with the exception of courses in the 721 and 722 series, which are not open to M.S. in Education students.

4. Students should consult the listing under Secondary Education and Youth Services for education requirements for the degree.

Courses in Art History

Any of the art history offerings may be taken for credit toward the degree of Master of Science in Education. Courses on the 500 level are primarily arranged for students in this program; these courses are also open to qualified undergraduates who have had two courses in art history. Courses on the 700 level (see above) are designed for art history students who have a reading knowledge of foreign languages and research skills. M.S. in Education candidates must obtain permission of the instructor before registering in these courses.

501. The Language of Art, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. A survey of the principal categories of visual experience, the conceptual terms for describing it, and the criteria used to analyze and evaluate the arts. Includes an exercise in designing classroom applications of aesthetic theory, history, and/or criticism.

502. Topics in Ancient Art, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

503. Topics in Medieval Art, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

504. Topics in Renaissance and Baroque Art, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

505. Topics in Modern Art, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

506. Topics in Art of the United States, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

507. Topics in Asian Art, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

508. Topics in Art of the Americas, 2 hr. plus conf.; 3 cr. Prereq.: Two semesters of art history. The topic may vary and will be announced each time the course is given. May be repeated for credit when the topic is different.

556. Independent Study in Art History, 2 hr. to be arranged; 3 cr. Prereq.: Permission of instructor. Work in some particular area of research for candidates for the Master of Science in Education and Master of Fine Arts degrees.

Courses in Studio Art

603. Advanced Design Studio, 4 hr.; 3 cr. Prereq.: Two semesters of work in design principles or workshop experience in applied design.

609. Advanced Painting, 4 hr.; 3 cr. Prereq.: Two semesters of work in the principles and practice of painting.

610, 611. Graphic Design I, II, 4 hr.; 3 cr. Prereq.: Two semesters of graphic design principles or workshop experience in graphic design.

612. Advanced Sculpture Studio, 4 hr.; 3 cr. Prereq.: Two semesters of work in sculpture.

620. Special Projects in Design, 4 hr.; 3 cr. Prereq.: Permission of Graduate Adviser. May be repeated for credit if project is different.

621. Special Projects in Fine Arts, 4 hr.; 3 cr. Prereq.: Permission of Graduate Adviser. May be repeated for credit if the project is different.

BIOLOGY

Chair: Corinne A.Michels

Deputy Chair of Doctoral Studies: Jeanne Szalay

M.A. Program Adviser: Jeanne Szalay

Department Office: SB B346, 997-3400; Fax 997-3445

The Biology Department offers programs of courses and research leading to the Master of Arts degree at Queens College. It also offers programs of courses and research leading to the Ph.D. at the CUNY Graduate School in the subprograms of Cellular, Molecular, and Developmental Biology; Evolution, Ecology, and Behavior; Physiology and Neurosciences; and Plant Sciences. Refer to the Bulletin of the Graduate School for application, financial aid, and course information for the Ph.D. program. Opportunities for specialization in applied and basic research are included below in the listing of the supervising faculty.

The Biology Department offers a variety of graduate courses appropriate for master’s-level students in Education. Students should meet with the Biology graduate adviser for guidance in the selection of Biology courses.

In addition to the program of courses described below, students are encouraged to participate in the extensive research programs of the Biology faculty. Their research activities have recently been funded by various agencies, including the National Science Foundation, the National Institutes of Health, the Howard Hughes Medical Institute, and a number of private foundations, including the American Cancer Society and the American Heart Society. Participation on research is one of the best ways for students to learn biology first-hand, and to appreciate how scientific methodology is used to answer important biological questions. A description of faculty research can be found at www.qc.edu/biology/faculty.

The department has excellent research facilities for cell and molecular biology, as well as well-equipped research laboratories, cold-room and environmental control units, marine and fresh-water aquaria, scanning and transmission electron microscopes, a carbon-dating laboratory, and computer access. Opportunities are enhanced by affiliation with other city institutions and cooperative efforts with other divisions of the City University and the American Museum of Natural History. The 1,470-acre Queens College Center for Environmental Teaching and Research at Caumsett State Park on Long Island’s North Shore offers a number of field study areas, including a variety of field and forest types, ponds, streams, and salt marsh, marine, and beach habitats.
Faculty
Michels, Corinne A., Chair, Professor, Ph.D. 1969, Columbia University: molecular genetics, regulation of gene expression, yeast genetics
Szalay, Jeanne, Deputy Chair of Doctoral and Master’s Studies, Professor, Ph.D. 1966, Columbia University: cell biology, tumor biology, metastasis, immunology
Alsop, David W., Associate Professor, Ph.D. 1970, Cornell University: comparative insect morphology, insect genetics, arthropod systematics and evolution
Bienkowski, Robert, Adjunct Associate Professor, Ph.D. 1973, State University of New York at Stony Brook: connective tissue metabolism, biology of the extracellular matrix
Calhoon, Robert E., Associate Professor, Ph.D. 1972, Purdue University: quantitative genetics, selection and mating systems, genetics of natural populations
Chabora, Peter C., Professor, Ph.D. 1967, Cornell University: population ecology, evolution of parasite-host interactions
Greller, Andrew M., Professor Emeritus, Ph.D. 1967, Columbia University: bioclimatology, forest ecology, tropical botany
Koepfer, H. Roberta, Associate Professor, Ph.D. 1984, City University of New York: behavioral ecology; evolution and genetics of behavior
Ma, PoKay, Assistant Professor, Ph.D. 1986, Washington University: neuroscience, neural control of behavior, structure and development of *locus coeruleus* in zebra fish
Marcus, Leslie F., Professor Emeritus, Ph.D. 1962, University of California at Berkeley: biometrics, multivariate morphometrics, computer graphics
Montagnier, Luc, Bernard and Gloria Salick Distinguished Professor, M.D. 1960, University of Paris: virology; etiology and treatment of AIDS
Mundinger, Paul C., Professor, Ph.D. 1991, Stanford University: plant physiology and molecular biology; light control of plant development
Sperling, Jon A., Associate Professor, Ph.D. 1972, University of Wisconsin: algal and bryophyte ecology and physiology, limnology
Wasserman, Marvin, Emeritus Professor, Ph.D. 1954, University of Texas: evolution and cytotogehtics, population genetics and evolution of Drosophila
Zakri, Zahra F., Professor, Ph.D. 1984, St. John’s University: molecular developmental biology, regulation of gene expansion in aging and cell death

**MASTER OF ARTS PROGRAM**

**Requirements for Matriculation**

These requirements are in addition to the general requirements for admission.

1. Students are expected to have a minimum of 20 credits in biology beyond the introductory level. Undergraduate courses in physics, chemistry, and mathematics are required. A course in biostatistics is highly recommended.

2. The credentials of each applicant will be examined by the departmental admissions committee. This committee may request an interview with a candidate for admission.

**Requirements for the Master of Arts Degree**

These requirements are in addition to the general requirements for the Master of Arts degree.

1. Each student’s program will be approved by a supervising professor chosen by the student with the approval of the Graduate Adviser.

2. A minimum of either 24 graduate course credits and 6 thesis credits, or 32 graduate course credits, is required. A course in biostatistics is highly recommended. For all programs listed below, course credits must include a minimum of 4 lecture courses. Furthermore, the combination of 788 (Cooperative Education Placement), 799 (Research), 791 (Colloquium), and 792 (Tutorial) may not exceed 12 credits.

3. Students must participate in two semesters of Biology 791 (Colloquium), one credit each semester.

4. Programs:

   A. General Biology. 32 course credits chosen in consultation with the Graduate Adviser. Students in this track are eligible to take Biology 788 (Cooperative Education Placement) and participate in the Graduate Cooperative Education Program. A student who takes the 32-course-credit option will be given a written or oral comprehensive examination based on the core courses and the student’s area of concentration after at least 24 course credits have been completed. Each student will be limited to two attempts to pass this examination.

   B. Cellular, Molecular, and Developmental Biology. 24 credits chosen in consultation with the thesis adviser, plus 6 credits of research under the direction of a thesis supervisor. Students conducting thesis research must pass an oral examination in the area of their thesis and related subjects. This examination will be administered following thesis completion by the supervising professor, thesis committee members, and invited examiners. One re-examination may be attempted.

   C. Evolution, Ecology, and Behavior. 24 course credits chosen in consultation with the thesis adviser, plus 6 credits of research under the direction of a thesis supervisor. Students conducting thesis research may not receive graduate credit for more than two courses at the 600 level.

   610. Lower Plants. 2 lec., 1 rec., 3 lab. hr.; 4 cr. A survey of algae, bryophytes, and fungi of the northeastern United States, with an emphasis on identification, morphology, physiology, and ecology. A library or field research paper is required.

   611. Mycology. 2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: One semester of genetics and permission of instructor. A survey of the major taxa of fungi, including slime molds, with emphasis on their morphology and taxonomy. The importance of fungi as causal agents in diseases of man, other animals, and plants, as experimental tools of genetic, biochemical, and physiological research

Other Information
Arrangements may be made for students to take courses for graduate credit in other departments at Queens College or within CUNY in order to fulfill particular career requirements (i.e., resource management, environmental impact assays, etc.).

Faculty in the Department of Biology at Queens College participate actively in the CUNY Ph.D. Program in Biology. Arrangements can be made to transfer graduate credits earned at Queens College to the Ph.D. Program at CUNY. Students are encouraged to discuss their long-range goals with the Master’s Program Graduate Adviser as soon as possible.

The University doctoral program in biology is described in the Bulletin of the Graduate School.

Courses in Biology

**600-Level Courses**

Candidates for the Master of Arts degree may not receive graduate credit for more than two courses at the 600 level.

610. Lower Plants. 2 lec., 1 rec., 3 lab. hr.; 4 cr. A survey of algae, bryophytes, and fungi of the northeastern United States, with an emphasis on identification, morphology, physiology, and ecology. A library or field research paper is required.

611. Mycology. 2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: One semester of genetics and permission of instructor. A survey of the major taxa of fungi, including slime molds, with emphasis on their morphology and taxonomy. The importance of fungi as causal agents in diseases of man, other animals, and plants, as experimental tools of genetic, biochemical, and physiological research

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will be considered. Basic techniques of culturing fungi will be utilized in the execution of individual projects.††

612. Morphology and Evolution of Plants.
2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: Permission of instructor. Comparison of plant form and function. Lectures will emphasize the structure and origin of plant organs, and the use of this information in classifying major plant groups. Information from paleobotany will be integrated with comparative morphology of living plants. A library research paper will be required. Laboratory includes several field trips.††

613. Field Botany.
2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: Permission of instructor. Introduction to local flora and vegetation. Lectures will emphasize the structure and composition of local vegetation. Laboratories will consist mainly of field trips to parks, preserves, and botanical gardens. Students will submit a field trip report, a plant collection, and a library research paper.††

2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: Permission of instructor. Survey of the vascular plants with emphasis on flowering plants. Lectures will emphasize taxonomic characters useful in identification of major plant groups. Laboratories will be devoted to techniques of identification. Students will submit a plant collection and a library research paper. Field trips will occupy half days or full days; they will comprise a large part of the lab component.††

621. Entomology.
2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: Course in invertebrate zoology. Anatomy, physiology, and ecology of insects. Identified insect collection required of each student. Students should expect to reside at the Queens College Center for Environmental Teaching and Research, Caumsett State Park, Lloyd Neck, Long Island, for at least one week of the course (dormitory fees will be announced and collected at time of registration). Summer Sessions I and II only.††

626. Vertebrate Phylogeny.
2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: A course in comparative anatomy. Phylogeny and interrelationships of the important major groups of the phylum Chordata, emphasizing the origins of higher categories and their adaptive radiation into sub-groups. Laboratory on representative of fishes, amphibians, reptiles, birds, and mammals, emphasizing differences in locomotion, feeding mechanisms, and sense organs found within the same sub-classes, infra-classes, super-orders, and orders, with practice in the identification of typical specimens likely to be found in the field.

630. Biometrics.
2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: Courses in genetics and calculus. Probabilistic models in biology, field and laboratory sampling, tests of hypotheses; uses of statistics for estimation. Topics selected will include growth processes of organisms and populations, discriminant functions, and genetic descriptions of evolving populations. The laboratory includes computational procedures in evaluating biological data.††

2 lec., 1 rec., 2 lab. hr.; 4 cr. Prereq.: A course in field biology. Theory and analysis of structure, growth, biological communities in terms of their structure, species abundance and diversity, interspecific interactions, and integration with the physical environment. MAT charge, $50.

644. Biology and Society.
3 hr.; 3 cr. Prereq.: Courses in genetics and in cell biology. Critical analysis of selected subjects encompassing current biological research and related technological developments in context of their ethical, scientific, and economic impact on the human social systems.

646. Limnology.
2 lec., 1 rec., 3 lab. hr.; Prereq.: A course in field biology. Survey of the physical, chemical, and biological properties of streams, rivers, and lakes. A comparative analysis of inland waters. Students should expect to reside at the Queens College Center at Caumsett State Park (4 nights) (or its replacement station) and/or the Audubon Center at Greenwich, CT. The site selected depends on scheduling and the availability of space. Three to five other field trips, including two all-day trips are planned. Students should expect to be involved full-time during the duration of this summer course.

666. Immunology.
3 lec. hr.; 3 cr. Prereq.: A course in cell biology. The components and mechanisms of action of the immune system. Topics include requirements for antigenicity, types of antibodies, humoral and cell-mediated responses including allergy, graft rejection, and autoimmune diseases.

680. Field Biology Studies.
Prereq.: Variable prerequisites and permission of instructor(s). A variable content course encompassing field studies in the areas of botany, ecology, entomology, invertebrate and vertebrate zoology, and limnology. Usually offered Summers only, with 3-6 credits depending on the subjects included and the time involved. The focus of the course is the comparative study of habitats and their components. Format and destinations are variable and costs reflect the mode of travel, destination, and type of accommodations. A term paper is required.

685. Special Topics.
2–6 hr.; 2–4 cr. Special topics in various areas of cellular, developmental, environmental, or evolutionary biology to be taken by arrangement with the instructor and Graduate Adviser. May be repeated for credit if the topic is different. May include laboratory or field experience.

700-Level Courses

700. Genetics.
4 hr.; 4 cr. Prereq.: Biology 710 or equivalent. Structure and function of genes and genomes. Topics will include genetic model organisms and recombinant DNA technology.

700.4. Laboratory Techniques in Molecular Genetics.
4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 700.3.

705. Evolution.
3 hr.; 3 cr. Prereq.: Courses in genetics, vertebrate zoology or invertebrate zoology, botany, historical geology, or permission of department. Study of the mechanisms and processes of evolution based on the results and concepts of population genetics, speciation, and mega-evolutionary processes.††

705.4. Laboratory in Evolution.
4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 705.3.

705.6. Macroevolution: Patterns of Evolution above the Species Level.
3 hr.; 3 cr. Prereq.: A course in graduate evolution and undergraduate genetics. A course in evolution above the species level analyzing the interface between evolution at the species level and higher systematic and ecological hierarchies. The discussion will include origin, diversification, and extinction patterns of lineages; rates of evolution, deterministic versus stochastic patterns; the problem of adaptation and diversification; developmental aspects of phylogeny; taxic distribution in space and time; phylogenetic inference; morphological versus paleontological data; the molecular clock; ecological versus historical biogeography; gradualism versus saltationalism; neodarwinian paradigm versus others at supra-specific levels.

706.3. Systematics.
3 hr.; 3 cr. Prereq.: A course in evolution or in some major group of organisms. Principles of classification, phylogenetic inference, methods of systematics.

2 lec. hr.; 2 cr. each semester. Prereq.: For Biology 707.1, courses in comparative vertebrate anatomy and graduate courses in evolution, advanced genetics, and systematics; for Biology 707.3, Biology 707.1 or permission of instructor; for Biology 707.5, Biology 707.3 or permission of instructor; for Biology 707.7, Biology 707.5. The first semester to emphasize the fishlike chordates; the second semester to emphasize the amphibia, reptiles; the third semester to emphasize mammals; and the fourth semester to emphasize birds.

707.2, 707.4, 707.6, 707.8. Laboratory in Zoology and Phylogeny of the Chordata.
4 lab. hr.; 2 cr. each semester. Prereq. or coreq.: For Biology 707.2, Biology 707.1; for Biology 707.4, Biology 707.3; for Biology 707.6, Biology 707.5; for Biology 707.8, Biology 707.7. Examination of living, fossil, and other museum materials illustrating techniques and problems in research. The first semester to emphasize the fishlike chordates; the second semester to emphasize the amphibia, reptiles; the third semester to emphasize mammals; and the fourth semester to emphasize birds.

709.1. Population Genetics. 3 hr.; 3 cr. Prereq.: A course in statistics and a course in general genetics, evolution, or permission of instructor. Study of single gene systems on the population level with emphasis on the mechanisms of evolution/speciation.††

709.3. Quantitative Genetics. 3 hr.; 3 cr. Prereq.: A course in statistics and a course in general genetics or permission of instructor. Study of genetic selection, heritability, inbreeding, genetic drift, and the mathematical models which describe these processes.

710. Molecular Biology. 4 hr.; 4 cr. Prereq.: Undergraduate degree in biology or biochemistry to include a one-year course in organic chemistry, or permission of instructor. Structure, function, and synthesis of DNA, RNA, and proteins.

710.3. Cellular Physiology. 3 hr.; 3 cr. Prereq.: Courses in physiology and cytology or permission of department. The functions of acellular organisms and the cells of metazoan and metaphyta, including the normal internal-external environment of the cell; permeability and cell membranes; contractility; action potentials; specialized cells and their functions.††

710.4. Laboratory in Cellular Physiology. 4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 710.3.

711.3. Experimental Microbiology. 3 lec. hr.; 3 cr. Prereq.: One year of organic chemistry, one year of physics, one-half year of microbiology. The processes whereby microorganisms 1) obtain energy and cellular materials, 2) synthesize cell constituents, and 3) interact with their environment.

711.4. Experimental Microbiology Laboratory. 4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 711.3. The study of the metabolism of selected microorganisms by chemical and physical methods.

712.3. Comparative Biochemistry. 3 hr.; 3 cr. Prereq.: Courses in general biochemistry and evolution or permission of department. Comparison of the chemical constitution and metabolism of major groups of organisms.

712.4. Laboratory in Comparative Biochemistry. 4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 712.3.

714. Cell Biology. 4 lec. hr.; 4 cr. Prereq.: Undergraduate degree in biology or biochemistry to include a one-year course in organic chemistry, or permission of instructor. Characteristics and properties of cells and cellular components. Mechanisms underlying cell function and interactions of cells with their environment.

717.1. Virology. 3 hr.; 3 cr. Prereq.: One course in genetics, biochemistry, or equivalent. The structure and diversity of viruses will be discussed. The mechanisms of viral infection and multiplication, as well as host cell responses, will be studied. Several types of viruses will be analyzed in detail (e.g., human immunodeficiency virus, herpes viruses, hepatitis viruses, influenza virus).††

718. Immunology. 3 hr.; 3 cr. Principles of immunology including discussions of relevant experimental techniques and contemporary topics.††

719. Molecular Communication in Microorganisms. 3 hr.; 3 cr. Prereq.: A course in organic chemistry or biochemistry, or permission of instructor. A study of the surface of microbial cells and how microbial cells interact by means of molecules between cells of the same or different species. The role of these molecules in the regulation of morphogenesis, sexual and asexual reproduction, life cycles, metabolic regulation, genetic recombination, and bio-engineering will be examined. Comparison of these communicating molecules will be made with hormones of higher plants and animals.

722.1. Endocrinology. 3 hr.; 3 cr. Prereq.: Courses in physiology (preferably vertebrate) or biochemistry, or permission of instructor. Study of the mechanisms of hormone action and survey of the major mammalian endocrine systems.††

724.6. Behavior and Evolution. 3 hr.; 3 cr. A reading, discussion, and seminar course focusing on two basic questions asked by ethologists: 1) What is the ecological (adaptive) significance of behavior? and 2) What is the evolutionary history of behavior? Gene (biological) evolution is the prime focus; cultural evolution is also examined.††

726.3. Comparative Animal Physiology. 3 hr.; 3 cr. Prereq.: Courses in invertebrate zoology, vertebrate zoology, physiology, and organic chemistry, or permission of department. Physiological processes in invertebrates and vertebrates are compared. Osmoregulation, respiration, circulation of body fluids, receptors, effector and integrating mechanisms are explored. Emphasis is placed on an examination of functional homology and analogy as evidence for phylogeny.††

726.4. Laboratory in Comparative Animal Physiology. 4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 726.3. Laboratory work will involve qualitative as well as quantitative techniques for measuring environment-organism interaction. Marine, freshwater, and terrestrial invertebrates and vertebrates will be utilized for investigations into the effects on the organism of temperature, pressure, atmosphere, radiant energy, etc.

731.3. Microbial Ecology. 3 hr.; 3 cr. Prereq.: General microbiology or protozoology or phycology or mycology or lower plants, or permission of instructor. Study of the relationships of microorganisms to their natural environments (air, water, soil, higher animals, or plants) and each other.

741.4. Laboratory in Radiation Biology. 4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 741.3.

750. Developmental Biology. 3 hr.; 3 cr. Prereq.: Biology 714 or equivalent; a graduate course in biology or genetics is recommended. Cellular and molecular mechanisms underlying the development of vertebrates, invertebrates, and plants. Embryogenesis, axis specification, organogenesis, and cell differentiation.

750.4. Laboratory in Developmental Biology. 4 lab. hr.; 2 cr. Prereq. or coreq.: Biology 750.3.

753.3. Molecular Basis of Development. 2 hr.; 2 cr. Prereq.: A course in developmental biology or biochemistry, or permission of instructor. Analysis of selected topics in developmental biology at the cellular level, e.g., biochemical basis of induction, hormonal regulation of gene expression in development.††

760.1. Ecology. 3 hr.; 3 cr. Prereq.: Courses in vertebrate zoology. A general course in ecology covering theoretical and experimental aspects at the population, community, and ecosystem levels of organization. Emphasis is placed on the studies of populations—their organization, growth, and regulation—and interactions within and between species. Basic concepts concerning community organization and dynamics are considered.††

760.2. Laboratory in Ecology. 4 lab. hr.; 2 cr. Coreq.: Biology 760.1.

†-Offered either Fall or Spring; see Class Schedule.
††-May be offered; see Class Schedule.
BIOLOGY

760.3. Community Ecology. 3 hr.; 3 cr. Prereq.: A course in botany (higher plants). Analysis of selected topics in synecology. Emphasis will be on structural and temporal relationships of plants, animals, and climate-plant community relationships.

760.5. Population Ecology. 3 hr.; 3 cr. Prereq.: Courses in botany, zoology, or permission of instructor. Study of the composition and dynamics of populations, including age structure, sex ratio, mating systems, growth patterns, life table analysis, regulation, and intraspecific interactions.

760.7. Limnology. 3 hr.; 3 cr. The study of the physical, chemical, and biological features of freshwater systems.

760.8. Laboratory in Limnology. 4 hr.; 2 cr. Coreq.: Biology 760.7. This laboratory course must be taken simultaneously with the lecture. Laboratory testing and analysis along with considerable field exercises are designed to provide a survey of physical, chemical, and biological sampling techniques involved in limnological studies. A portion of the course period will be held at Caumsett State Park, where intensive day and night sampling and measurements will be conducted. Along with written reports, an identified collection of aquatic specimens is required. Several additional all-day field trips are planned.

764.3. Plant Ecology: Vegetation of the World. 3 hr.; 3 cr. Prereq.: A course in botany. A survey of world vegetation, with emphasis on North and Central America. Structural and floristic composition of major vegetation types will be emphasized. Schemes of vegetation classification will be compared and contrasted. Latitudinal and altitudinal zones will be discussed in the context of bioclimatic parameters.

768.3. World Vegetation. 3 hr.; 3 cr. A survey of vegetation of the earth touching on paleogeofloristics, from the Paleophytic to Cenophytic Eras. Changes in the Earth’s vegetation and present distributions of zonal plant communities are discussed in the light of plate tectonics and bioclimatology. Contemporary world vegetation types are analyzed structurally, physiognomically, and floristically. Systems of vegetation classification are compared and contrasted. Emphasis is placed on New World vegetation. A library research paper is required.

772. Theory and Biological Applications of Electron Microscopy. 2 lec., 1 rec., 3 lab. hr.; 4 cr. Prereq.: A course in histological techniques or permission of instructor. Study of the theory of electron microscopy plus practice of electron microscope operation and preparation of tissues for fine structure studies.

780.1. Biostatistics. 2-4 lec. hr.; 2-4 cr. Prereq.: Mathematics through calculus and permission of instructor. Descriptive and inferential biostatistics including analysis of variance, regression, and other selected methods.

780.2. Laboratory in Biostatistics. 1 rec., 3-6 lab. hr.; 2-3 cr. Prereq. or coreq.: Biology 780.1 or equivalent. The laboratory work consists of individual student projects and of introduction to computer programming.

781.1. Applied Multivariate Statistics. 2 hr.; 2 cr. Prereq.: Biology 780.1, 780.2, or equivalent. Coreq.: Biology 781.2. This course will involve principal components, factor analysis, discriminant analysis, multivariate analysis of variance, distance statistics, and multiple regression. Material will be covered in the context of biological problems in the laboratory and field.

781.2. Applied Multivariate Statistics Laboratory. 3 lab., 1 conf. hr.; 2 cr. Prereq.: Biology 780.1, 780.2, or equivalent. Coreq.: Biology 781.1. Data analysis and problem solving using multivariate data from experiments and the field. Use of SAS statistical package, including some programming in matrix algebra.

788. Cooperative Education Placement. 1 hr.; 1 cr. Prereq.: Permission of department. Opportunities to apply academic learning in biology in a work environment. The student will develop a learning contract with an instructor, a departmental adviser, and a company. Written reports and an oral or written examination are required. Open only to students who pursue the 32-credit coursework track; a maximum of 4 credits may be applied toward the M.A. or M.S. in Biology.

790.1. Seminar in Evolution. 2 hr. plus conf.; 3 cr. Topics relating to the general subject of evolution.

790.2. Seminar in Genetics. 2 hr. plus conf.; 3 cr. Heredity and genetics of plants and animals, and applications to other areas.

790.4. Seminar in Molecular Genetics. 3 hr.; 3 cr. Prereq.: Biology 710 or equivalent, or permission of instructor. Seminar course on a specified topic in the field of molecular genetics. Course may be taken more than once if topic changes.

790.5. Seminar in Developmental Biology. 3 hr.; 3 cr. Prereq.: Biology 750 or equivalent and/or permission of instructor. Special topics in developmental biology, emphasizing recent work relating to problems of chemical embryology, induction and tissue interaction, genes in development, hormones in development, differentiation and growth, teratology, and regeneration.

790.6. Seminar in Ecology. 2 hr. Plus conf.; 3 cr. Prereq.: Biology 760.1 or equivalent and/or permission of instructor. Seminar in the interrelationships of plants and animals with their biotic and abiotic environments.

790.7. Seminar in Cytology. 3 hr.; 3 cr. Special topics in cytology.

790.8. Seminar in Biомathematics. 3 hr.; 3 cr. Prereq.: Biology 780.1 and 780.2 or equivalent, or permission of instructor. Seminar-format course on a specified topic in the field of biомathematics and its applications. Course may be taken more than once if topic changes.

791. Colloquium. 1 hr.; 1 cr. Graded on Pass/Fail basis only.

792. Tutorial. 1-4 hr.; 1-4 cr. Prereq.: A minimum of two 600- or 700-level courses in biology.

793.1. Seminar in Systematics. 3 hr.; 3 cr. Problems in modern classification and phylogeny, with emphasis on areas such as vertical vs. horizontal classification, convergent and parallel evolution, adaptive radiation, behavioral aspects, biochemical systematics, computer methods, etc.

793.2. Seminar in Zoogeography. 3 hr.; 3 cr. Prereq.: A course in evolution or permission of instructor. Seminar-format course on a specified topic in the field of zoogeography. Course may be taken more than once if topic changes.

793.3. Seminar in Physiology. 3 hr.; 3 cr. Special problems in physiology.

793.4. Seminar in Animal Behavior. 3 hr.; 3 cr. Prereq.: A course in animal behavior or permission of instructor. Seminar-format course on a specified topic in the field of animal behavior. Course may be taken more than once if topic changes.

793.5. Seminar in Cell Biology. 3 hr.; 3 cr. Prereq.: Biology 714 or equivalent, or permission of instructor. Seminar course on a specified topic in the field of cell biology. Course may be taken more than once if topic changes.

793.9. Seminar in Special Topics. 2 hr.; 2 cr.

794.1. Ecology and Evolutionary Biology Data/Journal Club. 1 hr.; 1 cr. Prereq.: At least one graduate-level course in ecology, evolution, or systematics. Seminar-format course consisting of student and faculty oral presentations. Topics of the presentations will be taken from the student’s or faculty member’s own research or from journal articles in the scientific literature.

795. 796. Basic Laboratory Techniques for Research. 2 lec., 3 lab. hr.; 3 cr. per course. Lecture and laboratory work on modern instrumentation and experimental
design used to solve biological problems. The theory underlying the experimental design and equipment will be discussed.

797.1. Molecular, Cellular, and Developmental Biology Journal Club. 1 hr.; 1 cr. Prereq.: At least one graduate-level course in molecular genetics, cell biology, developmental biology, or biochemistry. Seminar-format course consisting of student and faculty oral presentations. Topics of the presentations will be taken from journal articles in the scientific literature.†

798.1. Molecular, Cellular, and Developmental Biology Data Club. 1 hr.; 1 cr. Prereq.: At least one graduate-level course in molecular genetics, cell biology, developmental biology, or biochemistry. Seminar-format course consisting of student and faculty oral presentations. Topics of the presentations will be taken from the student’s or faculty member’s own research.†

799. Research. Up to 6 cr. Prereq.: A minimum of two 600- or 700-level courses in biology. Research under the guidance of a faculty adviser.

CHEMISTRY & BIOCHEMISTRY

Chair: A. David Baker
Graduate Adviser: David C. Locke
Dept. Office: Remsen 206, 997-4100

The Department of Chemistry and Biochemistry offers programs leading to the degree of Master of Arts with concentrated study in chemistry or biochemistry. These programs include course and standard laboratory work designed to prepare the student for employment in the chemical industry, government, or teaching, or for continuation of study for an advanced degree. The department is an active component of the doctoral programs in Chemistry and Biochemistry of the Graduate School of the City University of New York. In addition to the programs of courses outlined below, each student is strongly encouraged to participate in the extensive research programs of the department, which in recent years have been funded by the National Science Foundation, the National Institutes of Health, Research Corporation, the Pfeiffer Research Foundation, Howard Hughes Medical Institute, and the Department of Defense. Participation in research is one of the best ways for the student to gain an appreciation for the daily activities of a working chemist. A brochure describing the research interests of the faculty may be obtained in the Departmental Office, or students can access the Departmental webpage at: www.qc.edu/Chemistry/chempage.html.

The department is also an active participant in the Graduate Cooperative Education Program, and has an active Preparing Future Faculty program supported by the National Science Foundation and the American Chemical Society. Students should contact the Graduate Adviser for further details and a discussion of the opportunities this program offers.

Faculty

Baker, Arthur D., Chair, Professor, Ph.D. 1968, University of London: heterocyclic chemistry: synthesis and study of heterocyclic molecules and their metal ion complexes that undergo specific interactions (e.g., enantiomeric) with nucleic acids; synthesis of drugs that inhibit protein kinase C activity. adbqc@forbin.qc.edu

Locke, David C., Graduate Adviser, Professor, Ph.D. 1965, Kansas State University: analytical separations; chemistry of biosolids. dlcqc@forbin.qc.edu

Axelrad, George, Professor Emeritus, Ph.D. 1960, University of Kansas: organic. gaxelrad@qc1.qc.edu

Berkowitz, William F., Professor Emeritus, Ph.D. 1963, Massachusetts Institute of Technology: organic. wbberkowitz@qc1.qc.edu

Bittman, Robert, Distinguished Professor, Ph.D. 1965, University of California at Berkeley: biochemistry and organic chemistry: lipid second messengers, antitumor ether lipids; development of new methods for chemical synthesis of glycerolipids and sphingolipids; photoactivatable lipids. robert_bittman@qc.edu

Disch, Raymond L., Professor, Ph.D. 1959, Harvard University: physical: electric, magnetic, and optical studies of molecular structure; laser polarimetry; electron and magnetic-optical effects; ORD/CD; ab initio molecular orbital theory. raymond_disch@qc.edu

Engel, Robert R., Professor, Ph.D. 1966, Pennsylvania State University: organic and biochemistry: design and synthesis of metabolic regulators; phosphonic acids as analogues of natural phosphates; phosphonate and phosphate synthesis; synthesis and investigation of denitrifying species; chemical architecture, polycationic organic salts; ionic liquids. robert_engel@qc.edu

Gafney, Harry D., Professor, Ph.D. 1970, Wayne State University: inorganic and material science: photochemistry of transition and main group metal complexes, hybrid catalysis, photoinduced electron transfer; excited state acid-base chemistry; photodeposition and characterization of metal and metal oxide clusters in glass; photochemical generation of gradient indices in glass. hfgafney@qc1.qc.edu

Hersh, William H., Professor, Ph.D. 1980, Columbia University: organic and organometallic; synthetic and mechanistic organometallic chemistry; organometallic Lewis acids; chiral catalysis of Diels-Alder reactions and hydroformylation; synthesis of electron-deficient phosphorus compounds and chiral phosphorus compounds; tungsten nitrosyl compounds; coordination of “noncoordinating” anions; synthesis of chiral phosphorus compounds for antisense oligonucleotides. william_hersch@qc.edu

Koeppl, Gerald W., Professor, Ph.D. 1969, Illinois Institute of Technology: physical: theory of molecular rate processes; classical mechanical trajectory studies of chemical reaction dynamics; formulation of variational versions of the transition state theory of chemical reaction rates. gkoeppl@qc.cuny.edu

Mirkin, Michael V., Associate Professor, Ph.D. 1987, Kazakh State University: Electrochemistry/Physical/Analytical: reactions at liquid interfaces; bioelectrochemistry; electrochemical kinetics; scanning electrochemical microscopy; electrochemical systems approaching molecular dimensions, mathematical modeling of electrochemical processes. mvmschem@qc1.qc.edu

Rotenberg, Susan A., Professor, Ph.D. 1985, Brown University: biochemistry, enzymology, protein chemistry, enzyme inhibitors, site-directed mutagenesis, signal transduction, anti-neoplastic drug design. susan_rotenberg@qc.edu

Saffran, Wilma A., Associate Professor, Ph.D. 1979, Cornell University: biochemistry, molecular biology; DNA damage and repair; mutagenesis; recombination; carcinogenesis. wsaffran@forbin.qc.edu

Schulman, Jerome M., Professor Emeritus, Ph.D. 1964, Columbia University: physical. schulman@forbin.qc.edu

Strekas, Thomas C., Professor, Ph.D. 1973, Princeton University: inorganic and biochemistry: Raman and resonance Raman studies of transition metal diimine complexes; metal complex interactions with nucleic acids. thomas_strekas@qc.edu

Tropp, Burton E., Professor, Ph.D. 1966, Harvard University: biochemistry; genetic and pharmacological aspects of phosphoglyceride metabolism. burton_tropp@qc.edu
MASTER OF ARTS PROGRAM
Requirements for Matriculation
These requirements are in addition to the general requirements for admission.
1. Undergraduate credits in chemistry should include one full year each of general chemistry, organic chemistry, and physical chemistry, and one-half year of quantitative analysis. Mathematics through integral calculus and one year of physics are required. Students planning to concentrate in biochemistry should have completed at least one year of biology and one semester of biochemistry (lecture and laboratory). Deficiencies may be removed by course work or individual study.
2. Three written recommendations from undergraduate chemistry instructors are required (preferably from instructors who have taught the applicant during the junior or senior year).
3. An interview with a member of the Chemistry and Biochemistry Graduate Committee may be requested. This Committee decides on deficiencies, conditions, exceptions, and special permissions.
4. Students whose native language is not English must submit Test of English as a Foreign Language (TOEFL) scores.

Requirements for the Master of Arts Degree
These requirements are in addition to the general requirements for the Master of Arts degree.
A minimum of 30 graduate course credits, including
a) One of the two following sets of required courses:

For a specialization in Chemistry:

<table>
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<th>Course</th>
<th>Credits</th>
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<tr>
<td>Chemistry 710 – Advanced Inorganic Chemistry</td>
<td>3</td>
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<tr>
<td>Chemistry 760 – Introductory Quantum Chemistry</td>
<td>3</td>
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<tr>
<td>A second course in physical chemistry</td>
<td>3</td>
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<tr>
<td>Chemistry 780 or 781 – Advanced Seminar</td>
<td>2</td>
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<td>Chemistry 790 – Basic Laboratory Techniques for Research</td>
<td>4</td>
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<tr>
<td>Chemistry 975 – Research</td>
<td>10 (maximum)</td>
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or, alternatively

For a specialization in Biochemistry:

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<th>Course</th>
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<tr>
<td>Biochemistry 710 – Advanced Biochemistry</td>
<td>3</td>
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<tr>
<td>Biochemistry 711.1 &amp; 711.2 – Basic Laboratory Techniques for Research in Biochemistry</td>
<td>8</td>
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<tr>
<td>Chemistry 750 – Advanced Organic Chemistry I</td>
<td>3</td>
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<td>Chemistry 760 – Introductory Quantum Chemistry</td>
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<td>or Chemistry 770 – Chemical Thermo-dynamics</td>
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<td>or Biochemistry 770 – Physical Biochemistry</td>
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<tr>
<td>Chemistry 780 or 781 – Advanced Seminar</td>
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<tr>
<td>or Biochemistry U810A – Seminar in Biochemistry</td>
<td>2</td>
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<tr>
<td>Chemistry 790 (or Biochemistry 796) – Basic Laboratory Techniques for Research</td>
<td>4</td>
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The Chemistry and Biochemistry Graduate Committee may waive or modify some of these requirements for students who have had equivalent training. In some cases the student may be required to show competence by formal or informal examination.
b) Remaining credits may be taken, with prior approval of the Chemistry and Biochemistry Graduate Committee, in graduate courses in the Division of the Natural Sciences. A maximum of two credits in seminars will be credited toward the Master of Arts degree. Students are encouraged to audit additional seminars.
The required courses for the Master of Arts degree, described in a), are similar to the core courses for the University doctoral programs in chemistry and biochemistry, which are described in the Bulletin of the Graduate School.

PROGRAM FOR THE MASTER OF SCIENCE IN EDUCATION DEGREE
Requirements for Matriculation
In general students should have an undergraduate major or minor in Chemistry. Students lacking this but showing promise to succeed in Master’s-level chemistry courses may be permitted to enter as probationary matriculants and may be required to make up undergraduate course deficiencies. Probationary status will be removed upon completion of 9 credits of approved course work with a minimum average of B.

Requirements for the Degree
1. Candidates in this program have two advisers, one in the Division of Education and one in the Department of Chemistry and Biochemistry. Both advisers must be consulted before registering in the program, and both must sign the approved program of studies. The Education adviser should be consulted first.
2. Course requirements include 15 credits in 700-level courses in Chemistry and/or Biochemistry. Chemistry 504 is also acceptable toward this degree.

Relationship to the CUNY Ph.D. Programs in Chemistry and Biochemistry
1. The doctoral programs in Chemistry and in Biochemistry based at the Graduate School and University Center are described in the Bulletin of the Graduate School of the City University of New York. Up to 30 credits of 700-level course work in Chemistry or Biochemistry taken at Queens College may be transferred to meet the Ph.D. programs’ course requirements.
2. Although the required MA courses listed above are similar to the core courses for the University doctoral programs in Chemistry and in Biochemistry, students should be aware that if they wish to enter the corresponding CUNY Ph.D. program after earning a Queens College MA degree, they must still pass the doctoral programs’ first-level examinations. This may be accomplished through exemption examinations or by taking or auditing U700-level courses at the Graduate School.
3. Consequently, students who anticipate proceeding to the Ph.D. should consider applying directly to those programs rather than to the Queens College MA program. Inquiries should be addressed to the Executive Officer of the Ph.D. Program in Chemistry or in Biochemistry, CUNY Graduate School, 365 Fifth Avenue, New York, NY 10016.

Courses in Chemistry & Biochemistry
501, 502. Modern Concepts of General Chemistry. 2 hr.; 2 cr. each. Prereq.: Permission of department. An introduction or review for the present teacher, with emphasis on background information helpful to the high school chemistry teacher. Not open to candidates for the M.A. degree in Chemistry. Spring
503. Selected Topics in Chemistry. 3 hr.; 3 cr. Prereq.: Matriculation for the Master of Science Degree in Education and an undergraduate major in biology, geology, or physics. With particular emphasis on the high school chemistry curriculum, the course is designed for matriculants in a science educational program for high school teachers of general science and biology.
physics, or geology. Not open to candidates for the M.A. degree in Chemistry.††

504. Environmental Chemistry. 3 hr.; 3 cr. Prereq.: General and organic chemistry. A general overview of the chemistry of our environment, focusing on pollution of the atmosphere and hydrosphere, hazardous wastes, heavy metals, and pesticides. Topics of current interest such as the greenhouse effect, stratospheric ozone depletion, acid deposition, and indoor air pollution are emphasized. Also the systems used by the City of New York for provision of drinking water, treatment of waste water, and disposal of solid waste are considered.

650. Biochemistry. 4 hr.; 4 cr. Prereq.: An approved two-semester course in college organic chemistry and a bachelor’s degree in chemistry or biology. Structure, properties, biosynthesis, and metabolism of major groups of compounds of biological importance, such as amino acids, nucleic acids, carbohydrates, lipids, and vitamins. Not to be used for credit toward the Master’s degree in Biochemistry and Biochemistry. Fall, Spring

710. Advanced Inorganic Chemistry. 3 hr.; 3 cr. Prereq.: An advanced undergraduate course in inorganic chemistry or Chemistry 760. The theoretical and experimental fundamentals of atomic and molecular structure. Emphasis is on physical interpretation. Fall

Biochemistry 710. Advanced Biochemistry. 3 hr.; 3 cr. Prereq.: A one-semester course in biochemistry or equivalent, and physical chemistry. Biosynthesis, especially of macromolecules and complex cellular constituents such as membranes. Specialized topics of current interest. Spring

Biochemistry 711.1, 711.2. Basic Laboratory Techniques for Research in Biochemistry. 8 lab. hr.; 4 cr. each semester. Prereq. or coreq.: Biochemistry 710 and Biochemistry 796, and permission of instructor. Laboratory work dealing with the theories and application of modern approaches to the solution of biochemical problems.

715. Special Topics in Inorganic Chemistry. 3 hr.; 3 cr. Prereq.: Chem. 710. Topic can change from semester to semester.††

740. Special Topics in Analytical Chemistry. 3 hr.; 3 cr. Prereq.: Undergraduate quantitative analysis and instrumental analysis. Topics of current interest in important areas of analytical chemistry, such as analytical separations, electroanalytical chemistry, and analytical spectroscopy will be covered.

Biochemistry 740. Enzyme Function and Applications. 3 hr.; 3 cr. Prereq. or coreq.: Biochemistry 710 (Advanced Biochemistry) or equivalent. A consideration of enzymatic function in the cell and of the several applications of enzymes in analytical and preparatory work.

742. Environmental Analytical Chemistry. 2 lec., 4 lab. hr.; 4 cr. Prereq.: Undergraduate course in quantitative analysis. Environmental analytical chemistry is an instrumental methods-of-analysis course orientated specifically toward the needs of those concerned with natural waters, soils, sediments, and related media. Emphasis is placed on sampling, maintenance of sample integrity, and sample preparation for analysis. Modern spectrophotometric, electrochemical, and high-resolution chromatographic methods are used for the determination of organic and inorganic compounds in environmental media.

750. Advanced Organic Chemistry I. 3 hr.; 3 cr. Fundamentals of organic chemical principles, reactions, and structures. Fall

755. Special Topics in Organic Chemistry. 3 hr.; 3 cr. Prereq.: Chemistry 750. Topic can change from semester to semester.††

760. Introductory Quantum Chemistry. 3 hr.; 3 cr. Systematic development of the theories of chemistry, including mathematical development and structural effects and the application of these theories to chemical systems. Spring

761. Spectroscopy. 3 hr.; 3 cr. A continuation of Chemistry 760.††

765. Special Topics in Physical Chemistry. 3 hr.; 3 cr. Prereq.: Chemistry 760. Topic can change from semester to semester.††

770. Chemical Thermodynamics. 3 hr.; 3 cr. The development of the thermodynamic foundations of chemical processes; both the classical and statistical mechanical approaches will be used.††

Biochemistry 770. Physical Biochemistry. 3 hr.; 3 cr. Prereq.: Permission of Chair or Graduate Adviser. Structure and conformation of proteins, nucleic acids, and other biopolymers; physical techniques for study of macromolecules; behavior and properties of biopolymers. Among the topics to be discussed are the theories and applications of the following techniques: a) spectroscopic studies (absorption, fluorescence, magnetic resonance, infrared and Raman, circular dichroism, and optical rotary dispersion); b) size, shape, and molecular weight methods (sedimentation, diffusion, viscosity, osmometry, and light scattering); c) kinetics and equilibria; d) diffraction methods (X-ray and neutron). Specific examples of the structures and functions of macromolecules will be examined. Fall

780, 781. Advanced Seminar. 2 hr.; 2 cr. each semester. Seminars will consist of reading and discussion of the literature on selected topics from the various branches of chemistry, or the presentation of experimental results. 780– Fall; 781– Spring

786. Spectroscopic Methods of Structure Determination. 3 lec.hr.; 3 cr. Prereq.: Permission of the department. A survey of the main methods for determining the structures of compounds from physical measurements. Interpretation of data from infrared, mass and nuclear magnetic resonance spectrometry. Discussion of other physical methods such as diffraction techniques and ultraviolet spectroscopy.

788. Cooperative Study. Prereq.: Permission of department. Cooperative Study is performed by students participating in the Cooperative Education Program. It involves employment of the student in one of a variety of chemistry-related jobs with direct supervision of the employer and overview guidance provided by a faculty adviser. Cooperative Study is intended to supplement the traditional classroom and laboratory programs of study. The student shall prepare a report for the Chemistry and Biochemistry Graduate Committee upon completion of the experience. No more than 6 credits may be taken in Cooperative Study.

788.1. 1 hr.; 1 cr. 788.2. 2 hr.; 2 cr.

788.3. 3 hr.; 3 cr. 788.4. 4 hr.; 4 cr.

788.5. 5 hr.; 5 cr. 788.6. 6 hr.; 6 cr.

Biochemistry 789. Special Topics in Biochemistry. 3 hr.; 3 cr. Prereq.: Biochemistry 650 or equivalent. Will cover topics of current interest in areas of critical importance to biochemistry.

790.1. Basic Laboratory Techniques for Research in Analytical and Physical Chemistry. 2 lec., 6 lab. hr.; 4 cr. Prereq.: Permission of the department. Modern instrumental methods of analysis including high performance liquid chromatography; gas chromatography; gas chromatography/mass spectrometry; capillary electrophoresis; flame and graphite furnace atomic absorption spectrophotometry; and UV-visible, fluorescence, and Fourier transform infrared spectrophotometry applied to various organic and inorganic materials.

790.2. Basic Laboratory Techniques for Research in Organic and Inorganic Chemistry. 1 rec., 5 lab. hr.; 3 cr. Prereq. or coreq.: Chemistry 786. Modern techniques for the preparation and characterization of organic and inorganic substances, including spectrophotometric techniques, chromatographic separations, vacuum distillation, use of inert atmosphere and related syringe techniques.

793. Tutorial in Chemistry. Prereq.: Matriculation in the Chemistry Master of Arts Program and completion of 9 M.A. credits in Chemistry. Tutorial in advanced topics to be performed under the supervi-

1 Offered either Fall or Spring; see Class Schedule.
†† May be offered; see Class Schedule.
sion of a department faculty member with the approval of the Graduate Adviser. May be taken more than once for different topics. 793.1. 1 hr.; 1 cr. 793.2. 2 hr.; 2 cr. 793.3. 3 hr.; 3 cr.

795. Research. Prereq.: Permission of the Chemistry and Biochemistry Graduate Committee. Research under the guidance of a faculty adviser. Fall, Spring 795.1. 1 hr.; 1 cr. 795.2. 2 hr.; 2 cr. 795.3. 3 hr.; 3 cr. 795.4. 4 hr.; 4 cr. 795.5. 5 hr.; 5 cr. 795.6. 6 hr.; 6 cr.

Biochemistry 796. Introduction to Laboratory Techniques for Research in Biochemistry, 10 lab. hr.; 4 cr. Laboratory work dealing with the theories of modern experimental techniques and their applications to biochemical research; development of experimental rationale for biochemical research.

Course in Reserve

751. Advanced Organic Chemistry II.

COMPUTER SCIENCE

Chair: Tsaiyun Ihsin Phillips
Assistant Chair: Kenneth J. Lord
Chair, Graduate Curriculum and Advisement: Keitaro Yukawa
Graduate Admissions Officer: Bon Sy
Dept. Office: SB A202, 997-3500

The dynamic and growing field of computer science provides opportunities for intellectual activity, research, and future employment. The aim of the Master’s program is to prepare students for professional careers in private industry, government, and academia. For those who seek academic careers and opportunities for more advanced research, the Master’s program may constitute a significant portion of the Ph.D. program offered by the CUNY Graduate School. For information on the Ph.D. program, consult the department.

The department’s faculty do a wide range of research in computer science, and in fiscal 1999 received external funding from such federal agencies as the National Science Foundation, the National Institutes of Health, and the Department of Defense, as well as from corporate sources. Please examine our webpage for the most up-to-date information:

http://www.cs.qc.edu

We have about 50 workstations of various types (Sun, SGI, etc.) networked in the department available for research and instruction, and the College provides many PCs and servers. A list of our facilities may be accessed at the web address above.

Faculty

Phillips, Tsaiyun Ihsin, Chair, Professor, Ph.D. 1984, University of Maryland: computer vision; image processing; performance evaluation; document image analysis

Lord, Kenneth J., Assistant Chair, Associate Professor, Ph.D. 1995, City University of New York: operating systems, applications of computers to linguistics and music, web programming

Yukawa, Keitaro, Chair, Graduate Curriculum and Advisement, Assistant Professor, Ph.D. 1987, University of Waterloo: application of mathematical logic and category theory to computer science, logic and functional programming, logic database, programming languages, design and analysis of algorithms

Sy, Bon K., Graduate Admissions Officer, Associate Professor, Ph.D. 1988, Northeastern University: uncertain reasoning, use of AI augmentative communication, the recognition of impaired speech

Brown, Theodore D., Professor, Ph.D. 1971, New York University: simulation methodology, analytic modeling, parallel algorithms, analysis of algorithms

Friedman, Carol, Professor, Ph.D. 1989, New York University: computational linguistics, medical informatics, databases

Ghozati, S. Ali, Professor, Ph.D. 1976, Columbia University: computer communication networks, parallel processing

Goldberg, Robert R., Associate Professor, Ph.D. 1989, Courant Institute of Mathematical Science, New York University: graphics image processing, formal languages

Goodman, Seymour, Professor Emeritus, Ph.D. 1962, Columbia University: microprogramming; computer architecture

Gross, Ari D., Associate Professor, Ph.D. 1991, Columbia University: computer vision, computer graphics, shape modeling, computational geometry

Kong, T. Yung, Professor, Ph.D. 1986, University of Oxford, Great Britain: geometrical and topological problems related to computer vision graphics and image processing

Kwok, Kui-Lam, Professor, Ph.D. 1965, University of Manchester, England: information retrieval (IR), application of neural networks to IR, data structures

Obrenic’, Bojan, Assistant Professor, Ph.D. 1993, University of Massachusetts at Amherst: applications of discrete mathematics in computer science, theoretical parallel computing

Ryba, Alex, Associate Professor, Ph.D. 1985, Cambridge University, U.K.: computational group theory, finite group the-
ory, combinatorial game theory
Vickery, Christopher, Professor, Ph.D.
1971, City University of New York: computer organization and architecture, operating systems, graphics
Wasserman, Howard C., Associate Professor, Ph.D. 1971, University of Pennsylvania: theory of computation
Waxman, Jerry, Professor, Ph.D. 1973, New York University: voice/data systems, algorithms, computer science education
Whitehead, Jennifer, Associate Professor, Ph.D. 1975, University of Warwick, England: computational complexity, computability, operating systems
Xiang, Zhigang, Associate Professor, Ph.D. 1988, SUNY Buffalo: computer graphics, image processing, interactive techniques, artificial intelligence, compilers

PROGRAM FOR THE MASTER OF ARTS DEGREE

The Master of Arts in Computer Science includes courses in four areas of study: Software, Theoretical Foundations, Hardware, and Mathematical Applications and Algorithms.

The Software area is the primary focus of the program, and includes courses in fundamental algorithms, software design, database systems, distributed software systems, operating systems, compiler design, graphics, information organization and retrieval, and artificial intelligence. The Theoretical Foundations courses include the mathematical treatment of such topics as formal language theory, automata theory, and computability theory. The Hardware area course offerings cover topics including computer systems design, networking principles, and distributed hardware systems. The Mathematical Applications and Algorithms area includes courses covering sequential and parallel numerical algorithms, applications of probability and statistics to the study of hardware and software systems, and principles of simulation and modeling.

All 700-level courses in the department are applicable to the CUNY doctoral program in computer science. Some graduate courses are open to students who are not matriculated in the Master’s program. Consult the department for details.

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

Matriculation is based on merit as judged by the Graduate Admissions Committee of the department. The Committee will expect each candidate for matriculation to have an adequate mathematics background, including integral calculus, probability and statistics, and discrete mathematical structures.

Matriculation requirements also include a working knowledge of at least one high-level, object-oriented programming language (some courses, including core courses, require knowledge of specific languages; consult the department for current requirements), assembly language programming, data structures, principles of programming languages, operating systems, computer organization, and theory of computation. A candidate who is partially deficient in the above requirements may, at the discretion of the Admissions Committee, be admitted subject to the requirement that the deficiencies be rectified. Appropriate means to fulfill this requirement are provided by the department. Courses taken to meet admissions deficiencies do not count toward the credits requirements for the degree: the average (mean) grade in these courses must be at least B (3.0), and each one of these courses must be completed with a grade of B– or better.

The Jacob Rootenberg Fellowship Award

Each semester an award from the Jacob Rootenberg Fellowship Fund will be made to a new matriculant with an outstanding record of scholarship.

Program Requirements

These requirements are in addition to the general requirements for the Master of Arts degree as specified in this Bulletin.

Each student must complete 30 credits of 700-level courses, including the core courses (Algorithms I, Distributed Computing, Computer Architecture and Networks). In addition, the student must choose one course in each of the three semi-core categories: Software, Hardware, and Mathematical Applications and Algorithms. After completion of 21 credits, each student must satisfy a “Capstone requirement” by completing a Software Development Practicum, a Research Practicum, and an approved Research Project, or a Master’s Thesis. The remaining courses may be freely chosen from a variety of other 700-level courses, including “special topics” and seminar courses.

Courses in Computer Science

The second digit of each course number represents a particular area.

0 or 1 Software
2 Foundations
4 Hardware
6 Mathematical Applications and Algorithms

Any course for which the title begins “scs,” “sch,” and “scm” (respectively: software, hardware, and mathematical applications and algorithms) satisfies the semi-core requirement in that particular area.
**Remedial Background Courses**


615. Survey of Information Technology. 3 hr.; 3 cr. Information technology for organization. Computational tools, the Internet's structure and capabilities, distributed computing, information management, and recent advances in computing applications of special interest to commerce and industry. Not usable toward the Master's Degree in Computer Science.

642. Assembly Language and Computer Organization. 4 hr.; 3 cr. Prereq.: Computer Science 95 and Mathematics 120. An intensive course introducing the elements of computer architecture and assembly level programming. Topics include the gate, register, and processor level of design, interrupt handling, and input/output facilities. Assembler, linkers, interrupt handling and input/output programming.

**M.A. Courses**

700. Algorithms I. 3 hr.; 3 cr. Fundamental algorithms, their use, analysis, and the data structures used in their formulation. Programming paradigms such as dynamic programming, divide and conquer, greedy algorithms, branch and bound, backtracking, and their applications. Parallel algorithms.

701. Software Design. 3 hr.; 3 cr. Prereq.: Computer Science 700. Techniques and principles of systematic software development. Review of current software development tools. Top-down design and structured programming. History and concepts of modular design. Graphical user interfaces. Object-oriented design including data abstraction by classes and type polymorphism. Significant programming projects will be assigned.

707. Compiler Construction. 3 hr.; 3 cr. Prereq.: Computer Science 700. Theory and practice of compiler construction. Topics include theoretical and practical studies of lexical analysis, syntax analysis, type checking, semantic analysis, object code generation and optimization.

711. Database Systems. 3 hr.; 3 cr. Prereq.: Computer Science 700. In-depth review of data base systems and extensive survey of the current literature on the topic.

715. Distributed Computing. 3 hr.; 3 cr. Distributed systems design and implementation. Concurrency and modularity. Operating system considerations. Transport-level communication protocols. RPCs. Examples of distributed systems.

718. Computer Graphics. 3 hr.; 3 cr. Prereq.: Computer Science 700. Organization of graphic systems, output primitives and their attributes, geometric and viewing transformations, scan-conversion and clipping algorithms, segments, interactive devices and techniques, graphics standards such as GKS, color models, three-dimensional representations, projections, hidden line/surface removal algorithms, shading methods and illumination models. Significant programming projects to illustrate the rendering process as well as the design of user interfaces will be assigned.

722. Computability and Complexity. 3 hr.; 3 cr. A circuitry-oriented approach to computability, including such topics as logic circuits, machines with memory, Turing computability, computational complexity, and circuit complexity.

731. Software Development Practicum. Hours to be arranged; 3 cr. Prereq.: Completion of 21 credits, including any software semi-core course. Each student will complete a significant software development project, either of his/her own choosing or one selected by the instructor. In general, projects will incorporate the following features in their design: A graphical user interface, concurrent processing, and persistent state across invocations. All projects will include complete and separate documentation for end-users, for installation, and for software maintenance. Project management tools for version and module management, and a complete record of the development stages are required.

732. Research Practicum. 3 hr.; 3 cr. Prereq.: Completion of 21 credits. Critical review of research in computer science. Students will conduct research on one of the topics given by the instructor, and gain experience in writing research proposals, actual research process (including the use of libraries and the reading of papers), and in writing research reports. The instructor will give lectures on the selected topics as well as on general research methods, and closely monitor the students' research process.

733. Master's Thesis. 3 cr. Prereq.: Completion of 21 credits. A Master's thesis must be accepted by a sponsoring member of the department and by a thesis committee chosen by the department. (For College requirements regarding theses, see page 12 of this Bulletin.)


762. Algorithms II. 3 hr.; 3 cr. Prereq.: Computer Science 700. A continuation of the material of 700, including algorithms for numerical computation, algorithms for parallel or distributed computers, and probabilistic analysis of algorithms.

764. Topics in Systems Simulation. 3 hr.; 3 cr. Prereq.: Computer Science 700. Introduction to simulation and comparison with other techniques. Discrete simulation models and introduction to, or review of, queuing theory and stochastic processes. Comparisons of discrete change simulation languages. Simulation methodology including generation of random numbers and variates, design of simulation experiments for optimization, analysis of data generated by simulation experiments and validation of simulation models and results. Selected applications of simulation.

766. Probabilistic Models in Computer Systems. 3 hr.; 3 cr. Prereq.: Computer Science 700. This course deals with analytical modeling as a means of analyzing computer hardware and software through the application of fundamental concepts of probability theory, statistics, random processes such as queueing theory and Markov chains, to problems encountered in queuing models of time-sharing systems, multiprocessor interference, statistical evaluation of sorting techniques, and reliability of computer systems and networks.

780, 782, 783, 784, 786. Special Topics in Computer Science. 3 hr.; 3 cr. May be repeated for credit for differing titles.

788.1-3. Computer Science: Cooperative Education Placement. 1-3 hr.; 1-3 cr. Prereq.: Completion of at least three 700-level
Computer Science courses and approval by the Departmental Graduate Curriculum and Advisement Committee of a detailed project description submitted by the student. Experimental learning through job placements developed by the Queens College Cooperative Education Program. Opportunities are provided to test, demonstrate, and expand on academic learning in an organizational setting. This course does not count toward the 30 credits required for the Master of Arts degree in Computer Science. The grade for this course will be given on a Pass/Fail basis.

790, 792, 793, 794, 796. Seminars in Computer Science. 3 hr.; 3 cr. May be repeated for credit if the topic changes.

799.1-3. Research. 1-3 hr.; 1-3 cr. Prereq.: Permission of department. May be repeated for credit for different topics, to a maximum of 3 credits. Student research reports shall be written; they will be placed on file with departmental technical reports. The 799.3 can be used to satisfy the capstone requirement if the proposal is approved for such by the department. Students may take such a course only after they have completed at least 21 credits of 700-level courses with a cumulative GPA of 3.3 or better, and the research involved must be an individual work.

Appalachians, the Caribbean, South America, and Europe.

The school’s location provides abundant space for laboratories and equipment. Full facilities for specimen preparation are available, as are facilities for X-ray diffraction and fluorescence, electron transmission and scanning electron microscopy, graphite furnace atomic absorption spectroscopy, ion-coupled plasma spectrometer, and high-pressure studies. Field studies are carried out under faculty guidance.

Faculty participate fully in the City University of New York Ph.D. program in Earth and Environmental Sciences.

Cooperative research projects exist with the American Museum of Natural History, the Lamont-Doherty Earth Observatory, and the Smithsonian Institution.

Exciting projects now being carried out by students and faculty include: study of sewage effluent contamination in the benthic food web in Long Island Sound; the use of recycled materials for construction in New York Harbor; hurricane patterns on the East Coast in the past and future; long-term climate changes and weather patterns; deciphering of geologic and deformation history in Westchester County and in Maine; determining ages and isotopic relations of billion-year-old rocks from all over the world; the effects of meteorite impact (both statistically and paleontologically); and earthquake hazards in eastern North America. Current funding for research is from the National Science Foundation, the U. S. Department of Environmental Protection, New York State, and PSC/CUNY Research Awards. Students who have successfully completed the program have found employment in industry and the government, or have entered Ph.D. programs.

Faculty

Habib, Daniel, Director, Professor, Ph.D. 1965, The Pennsylvania State University: dinoflagellates, bionmetry, sedimentology of organic material, environmental palynology. daniel_habib@qc.edu

McHugh, Cecilia M.G., Assistant for Graduate Advisement, Associate Professor, Ph.D. 1993, Columbia University; Research Associate, Lamont-Doherty Earth Observatory; marine geology, sedimentology, sedimentary petrology, geochemistry. cmcHugh@forbin.qc.edu


Brock, Patrick W. G., Associate Professor, Ph.D. 1963, University of Leeds: field geology, igneous and metamorphic petrology, structural geology, geomorphology. geology@forbin.qc.edu

Brueckner, Hannes K., Professor, Ph.D. 1968, Yale University; Senior Research Associate, Lamont-Doherty Earth Observatory: structural geology, geotectonics, isotopic geology, geochemistry. hannes@lamont.ldeo.columbia.edu

Coch, Nicholas K., Professor, Ph.D. 1965, Yale University: sedimentology, coastal geology, environmental geology. geology@forbin.qc.edu

Finks, Robert M., Professor, Ph.D. 1959, Columbia University; Research Associate in Paleobiology, Smithsonian Institution; Geologist, U.S. Geological Survey: invertebrate paleontology and paleoecology. geology@forbin.qc.edu

Ludman, Allan, Professor, Ph.D. 1969, University of Pennsylvania: field geology, metamorphic petrology, tectonics. allan_ludman@qc.edu

Mattson, Peter H., Professor Emeritus, Ph.D. 1957, Princeton University; Visiting Senior Research Associate, Lamont-Doherty Earth Observatory: structural geology, igneous and metamorphic petrology, geology of island arcs. mattson@forbin.qc.edu

McIntyre, Andrew, Professor Emeritus, Ph.D. 1969, Columbia University; Adjunct Senior Research Associate, Lamont-Doherty Earth Observatory: climatology and marine biology, oceanography.

Schreiber, B. Charlotte, Professor Emerita, Ph.D. 1974, Rensselaer Polytechnic Institute; Adjunct Senior Research Associate, Lamont-Doherty Geological Observatory: sedimentology, sedimentary petrology and stratigraphy, oceanography.

Speidel, David H., Professor, Ph.D. 1964, The Pennsylvania State University: geochemistry, petrology, environmental geochemistry. speidel@forbin.qc.edu


Zheng, Yan, Assistant Professor, Ph.D. 1999, Columbia University: isotopic geochemistry in earth surface processes. yzheng.sees.qc

**SCHOOL OF EARTH & ENVIRONMENTAL SCIENCES**

**Director:** Daniel Habib

**Assistant for Graduate Advisement:** Cecilia M.G. McHugh

**Office:** Science Bldg. D216, 997-3300

**E-mail:** geology@forbin.qc.edu

The school offers a program leading to the Master of Arts degree in Geology with specialties in the areas of climatography/oceanography, economic geology, experimental mineralogy and petrology, geomorphology and quaternary studies, environmental geology and geochemistry, igneous and metamorphic petrology, paleontology/palynology, sedimentation, and sedimentary petrology. Regional tectonic and sedimentary studies include the North Atlantic, the northern

**EARTH & ENVIRONMENTAL SCIENCES**

**Program for the Master of Arts Degree**

**Requirements for Matriculation**

These requirements are in addition to the general requirements for admission.

1. Undergraduate geology training in each of the following subjects:

  - Physical geology (including geomorphology)
  - Historical geology or stratigraphy

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EARTH & ENVIRONMENTAL SCIENCES

Invertebrate palentology or faunal stratigraphy
Structural geology
Mineralogy (including elementary crystallography)
Petrography or optical mineralogy (involving familiarity with the petrographic microscope)
Field geology (an approved field course)

The Departmental Graduate Committee will waive the above requirements – with the exception of Physical Geology and Historical Geology – for students with a strong background in one or more of the laboratory sciences who may wish to pursue studies in special fields such as geophysics, geochemistry, paleontology, earth sciences, or environmental sciences.

2. One year each of college calculus (differential and integral), physics, and chemistry. In addition, at least one semester of college biology is required of students desiring to pursue a graduate program in “soft-rock” geology.

3. Students are required to remove deficiencies by taking the necessary undergraduate courses without credit. Deficiencies must be removed before the student proceeds beyond 12 credits of graduate work in geology.

4. Advanced standing (not exceeding 12 credits) may be granted to students who have taken graduate courses in geology at other institutions with a minimum grade of B or the equivalent.

Requirements for the Master of Arts Degree

These requirements are in addition to the general requirements for the Master of Arts degree.

1. Residence: A minimum of two full semesters.

2. Satisfactory completion of an approved course of study for a minimum of 30 credits in graduate geology courses, including a thesis. Individual programs are organized to permit specialization in most areas of geology and related earth sciences. Students must take Geology 701 and Geology 702 during their first year.

The Departmental Graduate Committee must approve the course of study for each student. At the discretion of the committee, pertinent courses in other science departments may be included in this category. In exceptional cases, the committee may waive required courses or prerequisites.

3. Thesis: The thesis problem and mentor must be approved by the Departmental Graduate Committee, which will also certify the acceptance of the completed thesis.

4. Certification: The committee shall certify to the Office of Graduate Studies the satisfactory completion of all academic requirements for the Master of Arts degree by the candidate.

Courses in Geology

Courses on the 500 level may not be applied toward the Master of Arts in Geology. Courses on the 700 level may prepare students for the requirements for matriculation. Students should consult with their advisors prior to registering for these courses.

501. Advanced Physical Geology. 3 lec., 3 lab. hr.; 4 cr. Required field trip(s). Geologic materials, internal and external structure and dynamics of the earth, and origin and evolution of the earth’s present landscapes.

502. Advanced Historical Geology. 2 lec., 2 seminar hr.; 3 cr. Prereq.: Geology 501 or equivalent. Required field trip(s). The origin and history of the earth as a planet; the use of evidence in reconstructing its crustal history, geography, and past environments; the evolution of life; regional geology of North America.

503. Modern Aspects of Geology. 3 rec., 3 lab. hr.; 4 cr. Prereq.: Two semesters of geology. An introduction to the basic geological processes and structures, followed by discussions of selected topics in geochemistry and geophysics.

504. Environmental Problems and Solutions. 4 hr. (2 lec., 2 lab. hr.); 3 cr. Field trips. The scientific analysis of important environmental issues is presented and various solutions are discussed. Included are case history examples of human impact on the physical environment, such as toxic waste disposal, sludge management, pollution of the potable groundwater supply, sewage effluent, contamination of estuaries and anthropogenic cause of redtides, among others. Proposals are offered on land-use planning and on strategies for energy consumption, agriculture, and manufacturing.

507, 508. Special Studies in Geology. Hr. to be arranged; 3 cr. Prereq.: One year of geology and permission of department. These courses are designed for graduate students interested in geology beyond the elementary level. Course requirements are normally met by successful completion of an advanced undergraduate geology course plus completion of a special project.

509. Environmental Geology of the New York Metropolitan Region. 2 lec., 3 lab. hr.; 3 cr. Prereq.: Geology 501 or equivalent. Geologic processes affecting the quality of the environment. Laboratory work involves the study of maps, aerial photographs, and other data in order to analyze geologic problems and write environmental impact statements. Field trips may be included.

510. Coastal Geology. 2 lec., 3 lab. hr.; 3 cr. Prereq.: Geology 501 or equivalent. Geologic processes, problems, and management decisions in the coastal zone of the United States. Laboratory work involves analysis of samples, maps, and aerial photographs. Field trips may be required.

512. Oceanography of New York and Adjacent Waters. 2 lec., 3 lab. hr.; 3 cr. Prereq.: Geology 501 or permission of instructor. An introduction to the processes and problems of the physical, geological, chemical, and biological oceanography of the northwest Atlantic. Lab sessions utilize oceanographic data to study specific areas. Field trips may be included.

515. Geology of New York State. 2 lec., 3 lab. hr.; 3 cr. Prereq.: Geology 501 or equivalent. Required field trip(s). The development of the bedrock, surficial geology, and landscapes of New York State over geologic time. Laboratory work involves analysis of samples, geological maps, and sections.

516. Geology in the Field. 2 lec. and 6 lab. hr. or 1 day in the field per week; 4 cr. Prereq.: Geology 501 or equivalent. The mode of occurrence and identification of rock types and the development of landscapes are studied in the field. Field work involves obtaining, recording, and interpreting data from a diverse set of geologic terrains.

599. Special Topics in Geology. 599.1, 1 lec. hr., 1 cr.; 599.2, 2 lec. hr., 2 cr.; 599.3, 3 lec. hr. or 2 lec. hr., 2 lab. hr., 3 cr.; 599.4, 3 lec. hr., 3 lab. hr., 4 cr. Prereq.: Permission of department. This course will cover topics of current interest in a particular aspect of the geological sciences. Topics may vary. The course may be repeated for credit if the topic is changed.

701. Advanced Principles of Physical Geology. 3 lec., 3 lab. hr.; 4 cr. Required field trip(s). Prereq.: Permission of instructor. Modern concepts of Earth composition, processes, physiography, and internal structure.

702. Advanced Principles of Historical Geology. 3 lec., 3 lab. hr.; 4 cr. Required field trip(s). Prereq.: Permission of instructor. Modern concepts of sedimentology, stratigraphy, paleontology, and basin analysis. Field and laboratory techniques used in the analysis of regional rock sequences.

705. Computer Modeling in Geology: Special Topics. 2 lab. hr.; 1 cr. Prereq.: Permission of department. This course will be offered as a complement to geology courses in which many of the applications involve the use of computers and modeling. Examples are geotechnics and soil mechanics, hydrology and groundwater geology, environmental geology, etc. Students will be expected to have some knowledge of computers and programming, and to have as a prerequisite or corequisite basic knowledge of the appropriate geological specialty. May be taken as a laboratory component to another course or as independent study.
710. Structural Geology. 3 lec., 2 lab. hr.; 4 cr. Physical properties of rocks and rock behavior in different tectonic environments; deformation by fracturing; folding deformation; collapse structures; gravitational gliding; interpretation of linear and planar elements; petrofabric analysis. Fundamental concepts of geotectonics.††

712. Geotectonics. 2 lec. or 2 sem., 2 lab. hr.; 3 cr. A study of various aspects of the petrology, structural features, and stratigraphy of major tectonic elements, such as orogenic belts, intracratonic basins, rift-zones, island arcs, and mid-oceanic ridges; their significance in the development of the earth's crust. Detailed analysis of selected world regions. ††

714. Geophysics. 3 lec. or sem. hr.; 3 cr. Principles of seismology: elastic constants; types and propagation of elastic waves. Exploration and earthquake seismology; gravity and magnetic fields of the earth; development of a comprehensive earth model based on geophysical data and concepts.††

715. Introductory Field Geology. 2 cr. Two to three weeks of supervised field work, with the results presented in a geologic map accompanied by a written report, cross sections, and appropriate diagrams and illustrations. Geology 715 must be followed by Geology 716 to meet the geology field course requirement. ††

716. Advanced Field Geology. 2 cr. Prereq.: Geology 715. Two to three weeks of supervised field work, with the results presented in a geologic map accompanied by a written report, cross sections, and appropriate diagrams and illustrations. The report and map are expected to be prepared at a more advanced level than those of Geology 715.††

717. Field Methods. 6 lab. hr.; 2 cr. Methods of collection, analysis, and presentation of field data, navigation, mapping, and plane tabling.††

718. Field Geology. 4 cr. A comprehensive geologic field investigation at the graduate level involving a minimum of three weeks supervised field work and a detailed field report of acceptable standards with geologic map, diagrams, and illustrations.††

720. Mineralogy. 2 lec., 2 lab. hr.; 3 cr. Crystal chemistry; mineral genesis and crystal growth; physiochemical principles governing crystal structures; mineral properties related to crystal structures; study of methods of analysis.†

722. X-ray Diffraction Analysis. 2 lec., 2 lab. hr.; 3 cr. Theory and application of X-ray diffraction; methods of qualitative and quantitative mineral analysis; mineral structure analysis.††

723. Advanced Research Methods in Geology. 1 lec., 3 lab. hr.; 3 cr. Principles and methods of qualitative and quantitative analysis of geological materials. Laboratory problems include using such methods of analysis as differential thermal analysis, infrared spectroscopy, electron microscopy, and electron microprobe.††

724. Igneous Petrology. 2 lec., 3 lab. hr.; 3 cr. Principles of igneous petrology based on chemical thermodynamics and phase equilibria systems established by geochemical laboratory investigations; problems of rock classification and nomenclature; fundamentals of structural petrology; petrogenesis in space and time; study of hand specimens and thin sections with advanced laboratory techniques.††

726. Metamorphic Petrology. 2 lec., 2 lab. hr.; 3 cr. Chemical principles and physical conditions of metamorphism, based on thermodynamic and experimental data. Mode of occurrence and classification of metamorphic rocks. Detailed study of metamorphic minerals and mineral assemblages.††

730. Paleontology of the Invertebrates. 2 lec., 1 sem., 2 lab. hr.; 4 cr. An advanced treatment of the functional morphology, systematics, evolutionary history, and paleoecology of invertebrate animals through geologic time. Laboratory techniques in the use of fossils as primary data of organic evolution and indicators of paleoenvironments. (Open to qualified students in biology.)††

732. Paleoenology. 2 lec., 2 lab. hr.; 3 cr. The reconstruction and analysis of plant and animal communities of the past, their historical development as communities, and their interactions with the environment. The fossil evidence for animal behavior, food chains, predator-prey relationships, symbiosis, parasitism, and environmental control of species distribution. Field and laboratory techniques.††

734. Micropaleontology. 2 lec., 2 lab. hr.; 3 cr. The study of several groups of animal and plant remains of microscopic dimensions. Collection of samples; recovery of microfossils from samples; sorting and classification; stratigraphic and economic value; ecolgy studies.††

736. Palynology. 2 lec., 2 lab. hr.; 3 cr. The systematic study, laboratory preparation, and geologic significance of the micropic remains of plants and closely related organisms, such as plant spores and pollen, dinoflagellates, and acritarchs.††

740. Sedimentology. 2 lec., 3 lab. hr.; 3 cr. Sediments, sedimentary processes, and sedimentary environments. Laboratory and field techniques in the analysis of sediment facies and sequences.††

742. Stratigraphy. 2 lec., 2 lab. hr.; 3 cr. Principles of stratigraphy; the stratigraphic record and nomenclature; faunal stratigraphy and correlation. Systematic stratigraphy of North America: Pre-Cambrian problems; geosynclinal, cratonal, and non-marine sedimentation of the Paleozoic Era; Mesozoic and Cenozoic stratigraphy; paleontological aspects.††

743. Sedimentary Petrology. 2 lec., 2 lab. hr.; 3 cr. Origin, texture, composition, and classification of sedimentary rocks, with emphasis on modern analytical techniques; study of thin sections, grain mounts, and hand specimens.††

745. Hydrology. 2 lec., 3 lab. or 1 rec. hr.; 3 cr. Introduction to the hydrologic cycle and processes related to the movement of water in the surficial environment: precipitation, evaporation and transpiration, infiltration, runoff and stream flow. Numerical calculations and problems will be emphasized. Discussion of case studies that describe hydrologic systems in differing climatic and geologic settings.††

746. Groundwater Hydrology. 3 hr.; 3 cr. Prereq.: Geology 745 or permission of department. Physical principles of groundwater flow, Darcy’s law, flow equations, flow nets, pumping tests, methods of groundwater investigation, groundwater geology. Numerical calculations and problems will be emphasized. Discussion of case histories that describe different types of groundwater systems.††

747. Coastal and Estuarine Geology. 2 lec., 3 lab. hr.; 3 cr. Prereq.: Permission of instructor. Field and laboratory examination of the geology, oceanography, and geomorphology of temperate and tropical coastal zones. Field work may include shipboard operations.††

748. Environmental Geology of the Coastal Zone. 2 lec., 3 lab. hr.; 3 cr. Prereq.: Geology 747 or permission of instructor. A laboratory and field examination of the environmental geology of temperate and tropical coastal zones. Field exercises, aerial photo interpretation, and environmental impact statements will be used to analyze specific problem areas.††

749. Seminar on Urban Coastal Management. 3 lec. hr.; 3 cr. Prereq.: Geology 748 or permission of instructor. Case-history analysis of a wide variety of coastal management problems in urban estuaries and along urban shorelines. Student presentations are based on site studies, interviews, and analysis of the relevant literature.††
750. Environmental Geology. 2 lec., 3 lab. hr.; 3 cr. Geologic processes, structures, and human modifications of geologic systems that affect the quality of the environment. Laboratory and field examination of geologic problems and introduction to site evaluation and environmental impact analysis techniques.††

752. Map Interpretation. 1 lec., 4 lab. hr.; 3 cr. Interpretation and analysis of topographic, geologic, and other maps. Uses and interpretation of air photographs and radar and satellite imagery.††

770. Principles of Geochemistry. 3 lec. hr.; 3 cr. Chemical processes involved in the development of the earth and distribution of the elements in the earth’s crust, atmosphere, and oceans.††

771. Geochemistry. 2 lec., 3 lab. hr.; 3 cr.;††

772. High Temperature Geochemistry. 3 lec. hr.; 3 cr. The principles of thermodynamics are reviewed and applied to geologic processes at high temperatures and high or low pressures.††

773. Low Temperature Geochemistry. 3 lec. hr.; 3 cr. Chemical equilibria in aqueous systems and at low temperature are studied and applied to weathering, sedimentary processes, and ore formation.††

780. Marine Geology. 3 lec. hr.; 3 cr. The form and origin of the ocean floor, the distribution of sediments, the structure of the oceanic crust and mantle. Chemical and physical aspects in oceanography are also discussed.††

788. Cooperative Education Placement. Prereq.: Permission of department. Experiential learning through placement. Opportunities to test and demonstrate academic learning in an organizational setting. Students receive academic credit as well as a stipend from the placement. No more than 6 credits may be taken in Cooperative Education Placement.

790. Seminar. Study of selected aspects of geology. Emphasis is placed on areas not directly covered in the regular courses and on the use of original sources. Course may be repeated once.

791. Independent Study. Hr. to be arranged; 1 cr. Prereq.: Permission of instructor. Advanced study of a subject or laboratory technique under the guidance of a faculty member. The course may be taken only once.

793. Independent Study. Hr. to be arranged; 3 cr. Prereq.: Permission of instructor. Advanced study of a subject or laboratory technique under the guidance of a faculty member. The course may be taken only once.

795. Thesis Research. Preparation of a thesis under the guidance of a faculty mentor. No more than 3 credits may be counted toward the Master of Arts degree in Geology.

799. Special Topics in Geology. This course will cover topics of current interest in a particular field in the geologic sciences. Topics may vary. The course may be repeated for credit if the topic is changed.

DIVISION OF EDUCATION

Acting Dean: Philip M. Anderson
Associate Dean: Lee Ann Truesdell
Director of Office of Teacher Certification: Christine Howard
Director of Office of Education Placement: Christine Howard
Field Placement: Suzanne Abruzzo, SEYS; Eileen Bowen, EECE
Enrollment, Information, and Retention: Clarice Wasserman

DEPARTMENT OF SECONDARY EDUCATION & YOUTH SERVICES

Chair: Eleanor Armour-Thomas

DEPARTMENT OF EDUCATIONAL & COMMUNITY PROGRAMS

Chair: Jesse Vázquez

PROGRAMS IN EDUCATION

Queens College offers integrated programs of advanced studies leading to the degree of Master of Science in Education. Through these programs students enrich their knowledge of a specialized area of education or a related area of human service; and they develop the attitudes, knowledge, and skills needed for successful professional practice.

In addition to Master’s degree programs, there are special advanced certificate programs for prospective school administrators and supervisors and school psychologists.

For students with baccalaureate degrees who lack undergraduate work in education and/or areas related to the school curriculum, initial certificate programs are available in Elementary and Early Childhood Education (Master of Arts in Teaching, page 66) and Secondary Education (Initial Certificate Program, page 74).

Graduate students are allowed to transfer up to 12 credits from other institutions with permission of the appropriate Chair. The degree of Master of Science in Education must be completed within five years of the date of the first credit earned.

The Master of Science in Education is granted in the following areas:

HEGIS Code
Art Education (see p. 76) 0831
Childhood Education Grades 1–6 (see p. 64) 0802
Counselor Education (see p. 91) 0826.01
School Counseling
Mental Health/Substance Abuse Counseling
Early Childhood Education (see p. 64) 0823.01
Elementary Education—Specialization in Bilingual Education (see p. 67) 0899
English Education (see p. 96) 1501.01
Family and Consumer Science (see p. 101) 1301.01
Foreign Langs. Ed. (see p. 74) 1102.01
French (see p. 98) 1104.01
Italian (see p. 98) 1105.01
Spanish (see p. 105) 1105.01
Literacy Education Birth-Grade 6 and Grades 5-12 (see p. 79) 0830
Mathematics Education (see p. 127) 1701.01
Music Education (see p. 130) 0832
Physical Education (see p. 102) 0835
School Psychology (see p. 82) 0826.01
Science Education Biology 0401.01
Chemistry 1905.01
Earth Sciences 1917.01
Physics 1902.01
Social Studies Ed. (see p. 74) 2201.01
Special Education (see p. 88) 0808
Teaching English to Speakers of Other Languages (see p. 119) 1508

Professional Certificate Programs
Initial Certificate and Diploma programs are offered in the following areas:
Childhood and Early Childhood Education (post-baccalaureate)
School Administration and Supervision (post-Master’s)
School Psychology
Secondary Education (post-baccalaureate)

Awards
The Alice Artzt Mathematics Teaching Award. $1,000 is granted to a graduating student in the Master of Science Program in Mathematics Education. The criteria employed by the committee in choosing the individual are: grade-point average—3.75 education index; 3.50 college index along with grade of A in student teaching (if taken at the College). Demonstration of special traits such as dedication, extra effort, need; a philosophy of teaching reflecting the approach recommended by the National Council of Teachers of Mathematics.

The Marc Belth Award is an annual prize of $700 awarded under the auspices of the Division of Education to a graduating undergraduate or graduate student who has created an original work of high quality in the areas of philosophical, social, or curriculum theory of education. For information, contact Elayne Bernstein at 718-997-5700.

The Clarence Bunch Art Education Award. $100 is granted to a graduating undergraduate or graduate student in the Art Education Program. This award is administered in honor of Clarence Bunch, who was a faculty member in the program for many years and Chair of the Department of Secondary Education and Youth Services. The criteria in choosing the individual are grade-point average and dedication to arts in education.

The Robert Edgar Award in Social Studies. $150 is granted to a graduating undergraduate or graduate student in the Social Studies Secondary Education Program. This award is administered in honor of Robert Edgar, who was a faculty member in the Department of Secondary Education and Youth Services. The criteria in choosing the individual are grade-point average and a dedication to teaching Social Studies.

The Alan Richard Hamovitch Award for Excellence in Special Education. $1,000 is given annually to a graduating student of the Master’s program in Special Education. The recipient must have an outstanding record of scholarship and teaching and have plans to continue in the field of special education. For information, contact the Special Education Program Coordinator.

The John Lidstone Award in Education. $100 is granted to a graduating or graduate student who plans on returning to the field of education. This award is administered in honor of John Lidstone, who was a faculty member and Dean of Education. The criteria in choosing the individual are grade-point average and dedication to the teaching profession.

The Albert Angrilli Award in School Psychology is an annual award of $200 given to a graduating student in the School Psychology Program who has demonstrated excellence in academic achievement as well as commitment to the field of school psychology. The recipient is an individual who holds promise for becoming an outstanding school psychologist. For information, please contact the School Psychology Program Coordinator.

The Corinne J. Weithorn Scholarship in School Psychology. The School Psychology Program is proud to administer a scholarship in honor of Corinne J. Weithorn, who was a faculty member in the program for two decades and chair of the Department of Educational and Community Programs. Professor Weithorn was strongly supportive of all her students. In particular, she was aware of the difficulties experienced by graduate students who were also mothers of minor children. The Weithorn family has established a fund for a scholarship of $6000 to assist a woman school psychology student who is raising a family while pursuing her education. For information, contact Roslyn P. Ross, Chair, School Psychology Scholarship Committee.

Internships
The Queens College Center for the Improvement of Education sponsors a graduate internship program for students interested in middle school teaching. The internships provide students with free tuition and a materials stipend for one semester as they participate in supervised field experience at the Louis Armstrong Middle School.

Field Opportunities
Field work opportunities are available for graduate students in numerous schools and agencies. All programs in education require extensive field experiences closely related to specific course work.

Educational Placement Service
As a service to its students, the Division of Education maintains an Educational Placement Office (718-997-5545). This office provides job listings in professional education, and, upon request from employers, nominates qualified candidates for various positions. These include classroom teachers, curriculum specialists, guidance and counseling personnel, educational technologists, school psychologists, and elementary and secondary school administrators and supervisors. Students may register with the office by setting up a placement file with recommendations and an ongoing record of their professional qualifications and experience.

Students are urged to register with the Placement Office when they have completed 12 credits of graduate work at Queens College. Those who have registered as undergraduates need not re-register, but should bring their records up to date.

Field Placement Offices
Two Field Placement Offices (EECE and SEYS) coordinate assignments for student teaching and other field experiences required in the programs.

New York City License
New York City licensing requirements change from time to time. It is the responsibility of students to determine whether their course of study will meet in full the city requirements. Students may make inquiries for information only in the Educational Placement Office (718-997-5545).
ELE MENT A RY & EAR L Y C H IL D HOOD E D UCATION

Chair: Helen L. Johnson
Dept. Office: 997-5300

The Department of Elementary and Early Childhood Education (EECE) offers graduate programs leading to New York State certification in Childhood Education, Grades 1–6 and Early Childhood Education, B–2. The programs prepare teachers to support learning and development within the family, culture, and community contexts of students and schools. EECE programs share a commitment to educational practices that honor linguistic and cultural diversity, and integrate technology and instruction to enhance learning.

The Department offers a 39-credit program leading to the Master of Science in Education degree (MSED) for students who have completed a teacher certification program in elementary/early childhood and currently hold a provisional or initial teaching certificate. For students who did not complete an elementary education certification program as undergraduates, EECE offers a 45-credit program leading to the Master of Arts in Teaching degree (MAT).

Courses are generally offered in the late afternoon and evening. Part-time students normally register for 6 credits each semester. A typical full-time program would be 12 credits each semester and 6 credits in the summer.

Important note: To conform to changing NYS regulations, EECE graduate programs have been substantially restructured. Each semester, the Department holds informational sessions about NYS certification and program requirements. Students considering graduate study in elementary and early childhood are encouraged to attend. Contact the Division of Education (997-5258) for the schedule.

Faculty

Johnson, Helen L., Chair, Professor, Ph.D. 1972, University of Wisconsin: children’s cognitive development, literacy and consequences of early deprivation in children
Abramson, Theodore, Professor, Ph.D. 1969, Fordham University: psychology of learning, research/evaluation methodology, vocational education
Baghban, Marcia M., Associate Professor, Ed.D. 1979, Indiana University: language arts and reading education
Bisland, Beverly, Instructor, M.A.T. 1967, Duke University: elementary social studies education
Broye, Daniel J., Professor, Ed.D. 1969, Teachers College, Columbia University: science education, research and evaluation, computer education
Bushnell, Mary, Assistant Professor, Ph.D. 1998, University of Virginia: educational foundations, cultural anthropology
Ezair, Janet G., Associate Professor, Ed.D. 1965, Teachers College, Columbia University: reading, sociology of education
Gibson, Linda G., Associate Professor, Ed.D. 1981, New York University: early childhood, language and thought development
Harris, Gloria A., Assistant Professor, Ed.D. 1968, Teachers College, Columbia University: social studies, multicultural education
Loughran, Sandra, Assistant Professor, Ph.D. 1998, Fordham University: early childhood education
Okongwu, Ann L., Associate Professor, Ph.D. 1986, City University of New York: multicultural education, ethno-graphic research with single parent families
Olivares, Rafael A., Associate Professor, Ed.D. 1985, Teachers College, Columbia University: teacher education
Schwartz, Judith Iris, Professor, Ph.D. 1970, New York University: early linguistic and cognitive development, early childhood education, reading and language arts instruction
Schwartz, Sydney L., Professor, Ed.D. 1965, Teachers College, Columbia University: elementary childhood curriculum, mathematics and science in elementary/early childhood education, study of teaching behavior and children’s learning
Swell, Lila, Associate Professor, Ed.D. 1964, Teachers College, Columbia University: creative methods in affective education
Turkel, Susan B., Associate Professor, Ed.D. 1977, Teachers College, Columbia University: mathematics, science, computer education
Whitin, David, Professor, Ed.D. 1984, Indiana University: elementary education
Whitin, Phyllis, Assistant Professor, Ph.D. 1993, University of South Carolina: elementary education
Zarnowski, Myra S., Professor, Ed.D. 1983, University of Georgia: language arts and social studies education

New York State Certificates in Elementary and Early Childhood Education

New York State is currently changing the certificate titles for elementary and early childhood education. In conformance with these changes, students entering EECE graduate programs with NYS provisional certification in Pre-K–6 (awarded through February 2, 2004) will be eligible for NYS permanent certification in Pre-K–6 upon completion of the M.S. Ed. program. Students entering EECE with NYS initial certification in Childhood Education, Grades 1–6, will be eligible to obtain professional certification in Childhood Education, Grades 1–6, and/or Early Childhood Education, B–2, as indicated in the program descriptions that follow.

MASTER OF SCIENCE IN EDUCATION (M.S. IN ED.), EARLY CHILDHOOD EDUCATION, BIRTH-GRADE 2

Advisers: S. Loughran, J. Schwartz

The M.S. in Ed. in Early Childhood Education, B–2, is designed for students with initial certificates in Childhood Education, Grades 1–6, who are interested in adding a second certificate area. The program presents an integrated approach to curriculum and environmental design. The program acknowledges the unique needs and learning patterns of very young children as the foundation for shaping the content of courses for professionals in early childhood education. The sequence of course work is summarized in Table 1 on page 65.

MASTER OF SCIENCE IN EDUCATION (M.S. IN ED.), CHILDHOOD EDUCATION, GRADES 1-6

Advisers: Abramson, Bisland, Broye, Dill, Ezair, Okongwu, Olivares, Turkel, Zarnowski

The M.S. in Ed. in Childhood Education, Grades 1–6, is designed for students with initial certificates in Childhood Education, Grades 1–6, who are interested in pursuing advanced pedagogical study within their certificate area. It emphasizes an inquiry-based approach to the study of learning and teaching. In addition to fulfilling core course requirements, students in this program complete a 4-course specialization in one of seven areas: Children’s Literature, Education for Diverse Learners, Family and Community Studies, Instructional Technologies, Language and Literacy, Mathematics Education, or Science Education (specializations are described below). Students also are required to complete four
interdisciplinary courses that have been developed in collaboration with the liberal arts and sciences departments. In some instances, the interdisciplinary courses also fulfill requirements for some of the specializations. The sequence of course work is summarized in Table 2. Courses that lead to the Bilingual Extension may be taken as part of this program. Students interested in obtaining the Bilingual Extension should contact Dr. Rafael Olivares (997-5318).

**Children’s Literature**  
Adviser: Myra S. Zarnowski

In this specialty, teachers develop an appreciation of the broad range of children’s literature, a critical perspective for reading literature, and strategies for sharing books with children for instructional purposes and for enjoyment. Major themes in the courses include deepening students' understanding of various types of literature, aligning literature with instructional goals and strategies, and understanding theory and research in children’s literature. Elective courses may be selected from other specializations with the Adviser’s approval.

**Education for Diverse Populations**  
Adviser: Rafael A. Olives

In this specialty, teachers examine ways to integrate non-native speakers of English into elementary school classes. Major themes in the courses include theory and research in second language learning, differences in oral and written bilingual learning, content learning in bilingual contexts, assessment, cross-cultural communication, and communication with families. Elective courses may be selected from other specializations with the Adviser’s approval.

**Family and Community Studies**  
Adviser: Helen L. Johnson

In this specialty, teachers examine the social systems and contexts that support and shape children’s learning and development. Major themes in the courses include families as contexts for learning, sociocultural influences on child development and learning, building home-community-school collaborations, and strategies for strengthening family participation in school settings. Elective courses may be selected for other specializations with the Adviser’s approval.

**Language and Literacy**  
Adviser: Marcia M. Baghban

In this specialty, teachers examine how language develops in young children, the relations between language and cognition, and the sociocultural factors that influence language learning. Major themes in the courses include the development of literacy as a continuum, language diversity, lan-

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**Table 1**

<table>
<thead>
<tr>
<th>Coursework for New York State Professional Certificate</th>
<th>Early Childhood Education, B–2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students select one of the following 3-credit courses:</td>
<td></td>
</tr>
<tr>
<td>EECE 702 Social Foundations of Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 704 Major Contemporary Issues in Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 705 School and Community Relations</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 710 Ecological Perspectives on Development: The Early Years</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 780 Introduction to Educational Research</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 782 Teacher as Researcher</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 721 Professional Issues in Early Childhood</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 722 Language Learning in Cross-Cultural Perspective</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 724 Curriculum and Environmental Design for Early Childhood, Part I</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 725 Curriculum and Environmental Design for Early Childhood, Part II</td>
<td>3 cr.</td>
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<tr>
<td>EECE 730 Practicum in Early Childhood</td>
<td>3 cr.</td>
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</tbody>
</table>

**Electives (6 credits)**

- EECE 728 Integrating Expressive Arts into the Early Childhood Curriculum Recommended 3 cr.
- Other 3 cr.

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**Table 2**

<table>
<thead>
<tr>
<th>Coursework for New York State Professional Certificate</th>
<th>Childhood Education, Grades 1–6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students select one of the following 3-credit courses:</td>
<td></td>
</tr>
<tr>
<td>EECE 702 Social Foundations of Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 704 Major Contemporary Issues in Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 705 School and Community Relations</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 710 Ecological Perspectives on Development: The Early Years</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 711 Ecological Perspectives on Development: The Childhood Years</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 717 Ecological Perspectives on Development: Early Adolescence</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 703 Classroom Realities in Diverse Settings</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 780 Introduction to Educational Research</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 782 Teacher as Researcher</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 796 Exploring Problems in History Through Literature</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 797 Queens County as a Learning Lab</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 798 Reading and Writing for Learning in Science</td>
<td>3 cr.</td>
</tr>
<tr>
<td>EECE 799 Exploring Mathematical Ideas Through Literature</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

**Specialization (12 credits)**

- Students are required to complete 12 credits in a specialty area:
  - Two required courses 6 cr.
  - Two electives 6 cr.

Total 39 cr.

*Note: Some courses fulfill more than one requirement. In these cases, students can complete the program in 36 credits.

All students are required to complete a specialization in a high priority area. The seven specializations are described on pages 65-66.
**Table 3. Master of Arts in Teaching**

**Sequence of Coursework Leading to New York State Initial Certificate**

**Early Childhood Education, B–2**

**Pedagogical Core** (12 credits)

- Ecology of Childhood (Students select one):
- EECE 702 Social Foundations of Education
- EECE 704 Major Contemporary Issues in Education
- EECE 705 School and Community Relations 3 cr.

- Ecological Perspectives on Development:
- EECE 710 Ecological Perspectives on Development: The Early Years 3 cr.

- Language and Literacy Development Across the Curriculum (Students take both):
- EECE 520 Language Development and Emergent Literacy 3 cr.
- EECE 525 Language and Literacy Learning in the Elementary Years 3 cr.

**Curriculum in Action** (12 credits)

- EECE 721 Professional Issues in Early Childhood 3 cr.
- EECE 724 Curriculum and Environmental Design for Early Childhood, Part I 3 cr.
- EECE 725 Curriculum and Environmental Design for Early Childhood, Part II 3 cr.
- EECE 750 Modern Learning Technologies 3 cr.

**Student Teaching** (6 credits)

- EECE 565 6 cr.

Upon completion of these 30 credits, students are eligible for the NYS Initial Certificate in Early Childhood Education, B–2, contingent upon passing LAST and ATS-W and completing state-approved training seminars on child abuse, maltreatment and abduction; substance abuse; school violence; safety education; fire and arson prevention.

**Research into Practice** (15 credits)

- EECE 703 Classroom Realities in Diverse Settings 3 cr.
- EECE 780 Introduction to Educational Research 3 cr.
- EECE 781 Inquiry into Teaching 3 cr.
- Specialty Electives 6 cr.

**Upon completion of these 45 credits, students receive the degree of Master of Arts in Teaching.**

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In this specialty, teachers enhance their expertise in the use of technology to become leaders in learning technology in their schools. Major themes in the courses include the integration of technology with language arts, social studies, mathematics, and science. Elective courses may be selected from other specializations with the Adviser’s approval.

**Mathematics Education**

*Adviser: Susan B. Turkel*

In this specialty, teachers explore trends and issues in mathematics education in courses that promote their own risk-taking, perseverance, and confidence. Major themes in the courses include mathematics as communication, reasoning and problem-solving, integration of mathematics into subject fields such as art, literature, science, and history, and ways to build supportive mathematical communities in which students feel safe to pose questions, offer conjectures, and explain their reasoning. Elective courses may be selected from other specializations with the Adviser’s approval.

**Science Education**

*Adviser: to be named*

In this specialty, teachers integrate knowledge about science with knowledge about learning and pedagogy. Major themes in the courses include facilitation of student learning, development of inquiry-based science programs, assessment of science teaching and learning, and creation of communities of science learners in physical, life, and environmental sciences. Elective courses may be selected from other specializations with the Adviser’s approval.

**Admissions Requirements and Prerequisites for M.S. in Ed. Programs**

Students are required to hold a Bachelor’s degree with a minimum cumulative GPA of 3.0, and a NYS initial certificate in Childhood Education, Grades 1–6, or provisional certificate in Pre-K–6. Applicants are required to provide writing samples on site. Additional application requirements are specified on the application form. Applicants may enter the program only as matriculating students. The Department holds several informational workshops about program requirements and application procedures; interested students are encouraged to contact the Division of Education (997-5258) for application deadlines and further information.

Once students are accepted, they will be invited to an orientation meeting and assigned to an Adviser. The Adviser will review the student’s background and interests and assist with course selection and program planning.

**MASTER OF ARTS IN TEACHING (MAT)**

*Advisers: Baghban, Bushnell, Gibson, S. Schwartz, D. Whitin*

This program is designed for students with undergraduate degrees in fields other than education who are interested in entering the teaching profession. The program stresses reflective teaching and the proactive role of the teacher in enhancing educational quality. The MAT program offers students the option of earning NYS initial certification in either Childhood Education, B–2, or Childhood Education, Grades 1–6. The program exposes students incrementally to pedagogy, curriculum, and assessment, with principles of field practice integrated into the course work at each level. Students are required to take Student Teaching, with two placements as mandated by New York State, when or before they have completed 24 credits in the program. With faculty guidance, each student compiles a teaching portfolio that documents the development of reflective practice and self-assessment, and highlights the connections between course and field experiences within the program.

**Course Work:** The course requirements for this program fall into four categories: pedagogical core, language and literacy development across the curriculum, curriculum-in-action, and research-into-practice. In addition, students select two courses from one of the graduate specialization programs.

The pedagogical core, language and literacy development across the curriculum, and curriculum-in-action courses must be taken prior to or concurrently with Student Teaching. The research-into-action courses must be taken concurrently with or after Student Teaching. Elective credits can be taken at any time during the program.

Upon completion of 30 credits including Student Teaching, as well as NYS-approved...
Table 4. Master of Arts in Teaching
Sequence of Coursework Leading to New York State Initial Certificate Childhood Education, Grades 1–6

<table>
<thead>
<tr>
<th>Pedagogical Core (12 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology of Childhood (Students select one):</td>
</tr>
<tr>
<td>EECE 702 Social Foundations of Education</td>
</tr>
<tr>
<td>EECE 704 Major Contemporary Issues in Education</td>
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<tr>
<td>EECE 705 School and Community Relations 3 cr.</td>
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</tr>
<tr>
<td>Ecological Perspectives on Development: (Students select one):</td>
</tr>
<tr>
<td>EECE 710 Ecological Perspectives on Development: The Early Years</td>
</tr>
<tr>
<td>EECE 711 Ecological Perspectives on Development: The Childhood Years 3 cr.</td>
</tr>
<tr>
<td>EECE 717 Ecological Perspectives on Development: Early Adolescence 3 cr.</td>
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<td></td>
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<tr>
<td>Language and Literacy Development Across the Curriculum (Students take both):</td>
</tr>
<tr>
<td>EECE 520 Language Development and Emergent Literacy 3 cr.</td>
</tr>
<tr>
<td>EECE 525 Language and Literacy Learning in the Elementary Years 3 cr.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Curriculum in Action (12 credits)</td>
</tr>
<tr>
<td>EECE 545 Social Studies in the Elementary School 3 cr.</td>
</tr>
<tr>
<td>EECE 550 Mathematics in the Elementary School 3 cr.</td>
</tr>
<tr>
<td>EECE 555 Science in the Elementary School 3 cr.</td>
</tr>
<tr>
<td>EECE 750 Modern Learning Technologies 3 cr.</td>
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<tr>
<td></td>
</tr>
<tr>
<td>Student Teaching (6 credits)</td>
</tr>
<tr>
<td>EECE 565</td>
</tr>
</tbody>
</table>

Upon completion of these 30 credits, students are eligible for the NYS Initial Certificate in Childhood Education, Grades 1–6, contingent upon passing LAST and ATS-W and completing state-approved training seminars on child abuse, maltreatment and abduction; substance abuse; school violence; safety education; fire and arson prevention.

Research into Practice (15 credits)
EECE 703 Classroom Realities in Diverse Settings 3 cr.
EECE 780 Introduction to Educational Research 3 cr.
EECE 781 Inquiry into Teaching 3 cr.
Specialty Electives 6 cr.

Total 45 cr.

Upon completion of these 45 credits, students receive the degree of Master of Arts in Teaching.

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Elementary Education

Students are required to hold a Bachelor’s degree with a cumulative GPA of at least 3.0, and to have taken a concentration of no fewer than 30 credits in one of the liberal arts or sciences subject areas during their undergraduate programs. Specializations such as business administration, advertising, sales management, accounting, design, and nursing do not usually meet these requirements. Applicants are required to provide writing samples on site, and may be asked to participate in focus groups. Prior to beginning of student teaching, students are required to complete 50 hours of work with children in organized educational or community settings. Students also must have completed two sequential years of study in a foreign language, as well as courses in the general liberal arts and sciences in their undergraduate program that include the areas summarized in Chart 1.

Note: Applicants may provide evidence of Advanced Placement Credits or other equivalent experiences to demonstrate compliance with any of the required New York State Learning Standards.

Additional course work in the liberal arts may be required to comply with NYS Learning Standards for Elementary School Teachers; students should check with the Department at time of application. Students who lack some of these foundation courses but meet other admissions requirements may be admitted to the program. Applicants may enter the program only as matriculating students. Although many program courses are offered late afternoons and evenings, students must plan for one semester of daytime attendance for student teaching.

In order to continue in the program, students must maintain a B average and cannot receive a grade lower than B– in any course. Students who receive a grade lower than B– in any course are required to meet with an Adviser or the Department’s review committee for advisement. Students must also display appropriate professional behavior in their field settings.

Extension in Bilingual Education, Grades 1–6

Adviser: Rafael A. Olivares

The NYS Extension in Bilingual Education program is designed for graduate students in the NYS initial and professional certificate programs in Childhood Education, Grades 1–6. The program provides course work and practicum experiences to prepare students for the special challenges of working with language minority students in mainstream as well as bilingual classrooms.

The courses required in the 21-credit Bilingual Extension are listed in Table 5. Both the MAT Initial Certificate and the M.S. in Ed. Professional Certificate Childhood Education programs include some of the courses in the Bilingual Extension program. Specifically, courses required for the Bilingual Extension are offered within the Language and Literacy, Education for Diverse Populations, and Family and Community Studies specializations. This means students can complete some requirements for the Bilingual Extension as part of their regular course work, but will need to take additional courses to complete the Bilingual Extension.

For students in the 45-credit Initial Certificate MAT Program in Childhood Education, Grades 1–6, completing the Extension requires 9 additional credits. For students in the 36-credit Professional Certificate M.S. in Ed. program in Childhood Education, Grades 1–6, completing the Extension requires 6 additional credits.

The Department of Elementary and Early Childhood Education offers four graduate certificate programs: an Initial Certificate/MAT program in Early Childhood Education, B–2; an Initial Certificate/MAT program in Childhood Education, Grades 1–6; a Professional Certificate/M.S. in Ed. program in Early Childhood Education, B–2; and a Professional Certificate/M.S. in Ed. program in Childhood Education, Grades 1–6. An extension in bilingual education for students in the Childhood Education, Grades 1–6 MAT and M.S. in Ed. programs is also offered. Course
requirements and options in these programs overlap. For each course, the description includes information about the requirements it fulfills.

EECE 520. Language Development and Emergent Literacy. 3 hr. plus field work; 3 cr. Required course for MAT students; open only to MAT students. Students examine how language develops in young children, the relation between language and cognition, and the sociocultural factors that impinge upon language learning. Among the major topics are: language assessment, language diversity, and emergent literacy. Emphasized throughout are teaching strategies and classroom experiences that foster language development in the young child.

EECE 525. Language and Literacy Learning in the Elementary Years. 3 hr. plus field work; 3 cr. Prereq.: EECE 520. Required course for MAT students; open only to MAT students. Students build upon earlier studies of emergent literacy to plan effective programs in diverse, inclusive elementary settings. Students develop knowledge of theories of literacy development, design and implement effective strategies for teaching reading and writing in inclusive elementary settings, and examine children’s literature to be used across the curriculum. Prospective teachers implement strategies in the field and analyze their teaching with the support of the teacher-research community.

EECE 533. Advanced Methods in Teaching Elementary Art, Pre-K–6. 1 sem. hr.; 4 lab. hr. (leave free the afternoon of the day on which class meets for field work); 3 cr. Prereq.: SEYS 536, 552; coreq.: EECE 711. Advanced methods in teaching art, Pre-K–6, with hands-on experiences in various media.

EECE 545. Social Studies in the Elementary School. 3 hr. plus field work; 3 cr. Prereq.: 1 course in Ecology of Childhood (EECE 702, 704, 705) and 1 course in Ecological Perspectives on Development (EECE 710, 711, 717). Required course for MAT, Grades 1–6 students; open only to students in this program. Prospective elementary teachers examine the teaching of social studies in the primary and intermediate grades. Emphasis is on the theoretical basis underlying the teaching of social studies and its application in the elementary classroom. Topics include the social studies disciplines, methodologies, and applications in the classroom.

EECE 550. Mathematics in the Elementary School. 3 hr. plus field work; 3 cr. Prereq.: 1 course in Ecology of Childhood (EECE 702, 704, 705) and 1 course in Ecological Perspectives on Development (EECE 710, 711, 717). Required course for MAT, Grades 1–6 students; open only to students in this program. This course examines key concepts, strategies, and skills in the elementary school curriculum. Topics include estimation and mental computation, place value, development of algorithms, algebraic reasoning, fractions and decimals, probability and data analysis, and measurement and geometric concepts. There will be an emphasis on problem-solving, reasoning and proof, communication, and representation of ideas. The course also addresses state and national standards in elementary school mathematics, and discusses uses of technology in the classroom.

![Table 5: Courses in Bilingual Extension, Grades 1-6](chart)

<table>
<thead>
<tr>
<th>Chart 1</th>
<th>Liberal Arts and Sciences Requirements for Students Entering the MAT Program</th>
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<tbody>
<tr>
<td><strong>Learning Standards</strong></td>
<td><strong>Course Work</strong></td>
</tr>
<tr>
<td>English Language Arts</td>
<td>Successful completion of 2 courses selected from the following areas: reading, writing, listening and speaking for information and understanding, literary response and expression, critical analysis and evaluation, and social interaction, e.g., comparative literature, genre studies; communications; journalism.</td>
</tr>
<tr>
<td>The Arts</td>
<td>Successful completion of 2 courses selected from the following areas: creative and/or performing arts, knowing and using art materials and resources, responding to and analyzing works of art, and understanding the cultural dimensions and contributions of the arts, e.g., art history, drama, theatre or dance; performance/studio in drama, theatre, dance, and/or studio art; and music.</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Successful completion of 4 courses selected from the following areas: major ideas, eras, themes, development, and turning points in history; geography of the interdependent world in which we live; economic systems; and governmental systems, civics, and citizenship, e.g., world history and world civilizations; economics, political science, cultural anthropology, and/or archaeology; theology, clinical psychology; sociology; philosophy; and American history.</td>
</tr>
<tr>
<td>Math, Science, and Technology</td>
<td>Successful completion of 6 courses selected from the following areas: historical and contemporary scientific inquiry, mathematical analysis in real-world settings, and the interrelations and contributions of science, mathematics, and technology to address real-life problems and propose informed decisions, e.g., evolution, genetics, and/or ecology; mechanics, heat, electricity, magnetism, ecosystems, and/or geology; statistics, probability, and/or research design; experimental psychology; and technology.</td>
</tr>
</tbody>
</table>
EECE 555. Science in the Elementary School. 3 hr. plus field work; 3 cr. Prereq.: 1 course in Ecology of Childhood (EECE 702, 704, 705) and 1 course in Ecological Perspectives on Development (EECE 710, 711, 717). Required course for MAT, Grades 1–6 students; open only to students in this program. Students learn about state and national standards in elementary school science. They relate current research to the effective teaching of science.

EECE 565. Student Teaching. 3 hr. plus participation; 6 cr. Prereq.: EECE 520, 525, 710, 721, 724, 725 and 1 course in Ecology of Childhood (EECE 702, 704, 705). Ten weeks of supervised observation and student teaching at two of the three certificate grade levels: Pre-Kindergarten, Kindergarten, and Grades 1–2.

EECE 566. Student Teaching. 3 hr. plus participation; 6 cr. Prereq.: EECE 520, 525, 545, 550, 555, 1 course in Ecology of Childhood (EECE 702, 704, 705) and 1 course in Development (EECE 710, 711, 717). Ten weeks of supervised observation and student teaching at two grade levels: Grades 1–3 and Grades 4–6.

EECE 700. A History of Ideas in Education. 3 hr.; 3 cr. Offers a historical perspective on central tenets of educational thought. Students examine educational theories and constructs within the context of their historical and cultural roots.

EECE 702. Social Foundations of Education. 3 hr.; 3 cr. Prereq.: EECE 702, 704, or 705 must be taken within the first 9 credits in the MAT and MS programs. Provides a forum for the beginning teacher to further investigate cultural, social, philosophical, and historical elements of education. Building on earlier studies in educational foundations, the course explores equity in schooling, school reforms, educational philosophy, and the relationship between schools and society, among other topics. Through readings, course assignments, and field experiences, students study a reflective decision-making model.

EECE 703. Classroom Realities in Diverse Settings. 3 hr.; 3 cr. Prereq.: Required course in all EECE graduate programs. Students in MAT programs must complete Student Teaching before taking this course. Sessions are directed at beginning teachers. Students develop strategies to handle the persistent challenges that educators face every day in diverse classrooms, such as increasing numbers of students with limited English ability, cross-cultural misunderstandings, student and parent illiteracy in home languages, lack of parent participation and support, and mainstreamed students with physical and/or emotional difficulties.

EECE 704. Major Contemporary Issues in Education. 3 hr.; 3 cr. Prereq.: EECE 702, 704, or 705 must be taken within the first 9 credits in the MAT and MS programs. In this course students investigate such persistent issues in education as public perceptions of teachers, use of education as a campaign ploy, budgetary limitations and increased demands, de facto segregation, assessment of teachers and students, day care, teachers as surrogate parents, etc. While the course reviews a variety of long-standing issues, it also features contemporary issues particularly relevant at the time the course is offered.

EECE 705. School and Community Relations. 3 hr.; 3 cr. Prereq.: EECE 702, 704, or 705 must be taken within the first 9 credits in the MAT and MS programs. This course is a critical analysis of the relationship between schools and their communities and the confluence of diverse communities within schools. Societal concepts are applied to community concerns related to the schools, to school policies, and to social curriculum. Efforts to adapt the school to social and community needs are examined in light of this analysis. Through readings, course assignments, and field experiences students study a reflective decision-making model.

EECE 710. Ecological Perspectives on Development: The Early Years. 3 hr.; 3 cr. Prereq.: Required course in B–2 MAT and MS programs; must be taken within the first 9 credits in these programs. This course provides a contextually based study of developmental processes in infants, toddlers, and young children through age 8. Emphasizing the importance of looking at “the whole child,” the contributions of family and culture to the child’s construction of meaning are examined, with special attention to the broad range of variability within normal development in the early years. Cultural and socioeconomic differences in child-rearing practices and parental expectations are discussed in terms of their significance for children’s early linguistic and cognitive functioning. The significance of attachment and autonomy issues for children in early childhood educational and care settings are addressed.

EECE 711. Ecological Perspectives on Development: The Childhood Years. 3 hr.; 3 cr. Prereq.: 1 course within Ecological Perspectives on Development (EECE 710, 711, 717) must be taken within the first 9 credits in the MAT program. This course provides a contextually based study of development, focusing on children during the elementary school years. Highlighting the ongoing interplay between cognition, language, affect and social functioning, students examine individual differences in abilities, learning styles, and academic performance, with attention to ecologically valid assessment strategies for linguistically and culturally diverse populations. Students explore the impact of family dysfunction, stress, poverty, and violence on development and academic performance. Strategies for creating classrooms that support prosocial development and learning are discussed.

EECE 712. Humanistic Psychology: Educational Applications. 3 hr.; 3 cr. Elective course in the EECE Specialty programs in Education for Diverse Populations and Family and Community Studies. This course examines the general principles and practices of motivation and communication, self-concept and its effect on interest, cooperation, and achievement. Values clarification, moral, ethical, and character education are explored. Students develop and implement teaching strategies in Affective Education.

EECE 713. The Psychology and Education of Exceptional Children and Youth. 3 hr.; 3 cr. Elective course within the Education for Diverse Populations specialty. Students examine legislation, assessments, and terminology related to exceptional children. Classroom strategies and interventions for specific categories of exceptional children are explored.

EECE 714. Behavior Problems of Children and Adolescents. 3 hr.; 3 cr. Elective course within the Education for Diverse Populations specialty. Students examine the range of emotional and behavioral disorders in early childhood through adolescence. The ramifications of behavior problems in classroom settings and techniques for guiding students into constructive activities are explored.

EECE 717. Ecological Perspectives on Development: Early Adolescence. 3 hr.; 3 cr. Prereq.: 1 course within Ecological Perspectives on Development (EECE 710 and 711) must be taken within the first 9 credits in the program. This course provides a contextually-based study of development, focusing on early adolescence. The interacting influences of family, ethnic group, and peer group on the young adolescent’s emerging identity are examined in relation to school behavior and academic performance. Individual differences in abilities, learning styles, and academic achievement are examined, with attention to ecologically valid assessment strategies for linguistically and culturally diverse populations. The links between school experience and the young adolescent’s susceptibility to substance abuse, violence, victimization, school drop out, and premature parenthood are discussed. School strategies for promoting healthy development in the adolescent years are considered.
students in the MS B–2 program. Five weeks of supervised observation and student teaching in one of the three certificate grade levels.

EECE 731. Teaching Beginning Reading and Writing. 3 hr.; 3 cr. Coreq.: Weekly opportunity to work with young children to develop reading and writing experience. Elective course within the Language and Literacy Specialty. Students explore how school programs can facilitate the development of reading and writing in the young child in ways that are consistent with current research and theory on the development of literacy.

EECE 732. Instructional Strategies for Mainstreaming Students. 3 hr.; 3 cr. Elective course within the Education for Diverse Populations Specialty. Course focuses on legal bases for mainstreaming of children with special needs, developing individualized educational plans, and developing appropriate instructional strategies for individuals in all content areas of the elementary school curriculum.

EECE 733. Curriculum Adaptation for Mainstreaming. 3 hr.; 3 cr. Elective course within the Education for Diverse Populations Specialty. Conceptions of handicap and exceptionality are explored. Students examine affective as well as cognitive considerations in curriculum adaptations, and the roles of teacher, parent, and school support services in providing for children with special needs.

EECE 734. Using Telecommunication and the WWW in the Classroom. 3 hr.; 3 cr. Elective course within the Instructional Technology Specialty. Students design educational WWW activities for use in the classroom using HTML and various web page editors. Students also learn how to locate, evaluate, and use educational WWW resources within an elementary classroom curriculum, and use multimedia tools and web page editors to create educationally sound web-based educational activities. This course assumes ready Internet access outside of the classroom.

EECE 735. Multimedia in the Classroom. 3 hr.; 3 cr. Elective course within the Instructional Technology Specialty. Students learn to use a variety of media and formats to communicate information and ideas effectively to multiple audiences. Students create a Hyperstudio Presentation, develop a Power Point presentation; create a Hyperstudio multimedia template and produce an e-portfolio; and create a project using Microworlds.

EECE 736. Mathematics for Young Children. 3 hr.; 3 cr. Elective course within the Mathematics Education Specialty. Focusing on the development of mathematical thinking of children in the primary grades. It examines current research on children’s thinking and emphasizes important instructional strategies. It highlights the key role language plays in mathematical learning.

EECE 740. The Improvement of Reading in the Elementary School. 3 hr.; 3 cr. Elective course within the Language and Literacy Specialty. Students examine developmental growth in reading from beginning to advanced stages. Trends in reading instruction and the more common reading difficulties are addressed.

EECE 741. Language Arts in the Elementary School. 3 hr.; 3 cr. Elective course within the Language and Literacy Specialty. Students study ways in which teachers can build upon the resources of children’s everyday living to facilitate children’s oral and written language development.

EECE 742. Reading Materials for Children. 3 hr.; 3 cr. Required course within the Children’s Literature Specialty. Students critically examine a wide range of children’s literature. Topics of study include: Picture books, traditional literature, fantasy, poetry, realistic fiction, biography and historical fiction, nonfiction, and classics. Teaching strategies for the use of this literature with diverse student populations are addressed.

EECE 744. The Art and Technique of Storytelling. 3 hr.; 3 cr. Elective course within the Language and Literacy Specialty. This course addresses the history of storytelling traditions across different cultures. It discusses the oral tradition in its cultural context and examines the role of storytelling in today’s linguistically and culturally diverse classroom. Effective strategies for telling stories are also discussed.

EECE 745. The Reading-Writing Connection. 3 hr.; 3 cr. Elective course within the Language and Literacy Specialty. Reviews current research on the development of children’s writing and explores how writing can enhance children’s learning to read. Students investigate children’s writing through actual writing samples and strategies. Students also work on their own writing and examine the childhoods of famous writers.

EECE 746. Nonfiction for Children. 3 hr.; 3 cr. Elective course within the Children’s Literature Specialty. Students become acquainted with quality nonfiction books for children, and explore ways to promote children’s comprehension of informational books.

EECE 747. Poetry for Children. 3 hr.; 3 cr. Elective course within the Children’s Literature Specialty. This course introduces students to a wide variety of poetry and
VERSE SUITABLE FOR CHILDREN, AS WELL AS STRATEGIES FOR WRITING POETRY WITH CHILDREN, PRESENTING POETRY ALONG, AND MAKING POETRY A CENTRAL PART OF CLASSROOM LIFE.

EECE 748. MYTHS, LEGENDS, AND FOLKTales. 3 Hr.; 3 Cr. Elective Course within the Children’s Literature Specialty. Students examine the traditional roots of a story as a model for better understanding and coping with the complexities of human existence. Through extensive reading and library research, students consider the significance of these prototypes for the study of literature and for the elementary school curriculum.

EECE 750. MODERN LEARNING TECHNOLOGIES. 3 Hr.; 3 Cr. Required Course for All MAT Students, and for MS Students in the Instructional Technology Specialty. Students learn to use word-processing software, databases and spreadsheets, digital cameras, educational software, email, and the WWW as tools to enhance the learning of the core curriculum subjects. The objective of this course, technology literacy, is acquired through classroom laboratory experiences, extensive readings, and detailed writing requirements. Students learn basic computer operations and vocabulary, explore the many personal and professional uses of technology, and apply modern learning technology tools to the school curriculum.

EECE 751. TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL. 3 Hr.; 3 Cr. Required Course within the Mathematics Education Specialty. Examining the content of an elementary school mathematics program, students explore effective teaching strategies that complement the National and New York State Standards for Mathematics. Students are introduced to a wide range of manipulative and technological tools for addressing important concepts, strategies, and skills.

EECE 752. MATHEMATICAL SNAPSHOT: MATHEMATICS IN EVERYDAY LIFE. 3 Hr.; 3 Cr. Elective Course within the Mathematics Education Specialty. This course introduces students to geometry content appropriate to the elementary school level. Students explore and develop pedagogical techniques that are applicable to a diverse range of children’s abilities.

EECE 753. TEACHING SCIENCE IN THE ELEMENTARY SCHOOL. 3 Hr.; 3 Cr. Required Course in the Science Education Specialty. This course emphasizes the selection, organization, and effective use of science materials in the elementary school. Important concepts will be drawn from the various sciences and include: populations and ecosystems, diversity and adaptations of organisms, structure and function in living systems, regulation and behavior, motions and forces, transfer of energy, and properties and changes of properties in matter. State and national standards in elementary school science will also be addressed, including the uses of technology to enhance science instruction.

EECE 756. GEOMETRY, ART, AND MATHEMATICAL THINKING. 3 Hr.; 3 Cr. Elective Course within the Mathematics Education Specialty. This course addresses key geometric concepts in the context of artistic creations, such as the work of M.C. Escher and the tiling patterns of various cultures. Concepts addressed include congruence, similarity, symmetry, and transformations. Other topics include coordinate geometry, tessellation of shapes, and the relationship between two- and three-dimensional shapes. This course integrates applications to the microcomputer as well.

EECE 757. PHYSICAL SCIENCE FOR ELEMENTARY SCHOOL TEACHERS. 3 Hr.; 3 Cr. Elective Course in the Science Education Specialty. Topics that have applications to the teaching of science concepts in the elementary school are presented from astronomy, chemistry, geology, meteorology, and physics. To enrich the background of science for elementary school teachers, this course stresses basic principles, applications, experiments, field work, and demonstrations.

EECE 758. LIFE SCIENCE FOR ELEMENTARY SCHOOL TEACHERS. 3 Hr.; 3 Cr. Elective Course in the Science Education Specialty. Students make connections in the instruction of elementary science across the disciplines within life science as well as draw on their knowledge of developmental stages to motivate students to learn science, build conceptual understanding, and encourage the application of knowledge, skills, and ideas regarding life science in the lives of elementary students.

EECE 759. ENVIRONMENTAL LITERATURE. 3 Hr.; 3 Cr. Elective Course in the Science Education and Children’s Literature Specialties. Focusing on the natural world and the interaction between humans and the environment, students examine literature, materials, and teaching practices appropriate for pre-school through elementary school children.

EECE 760. TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. 3 Hr.; 3 Cr. Elective Course in the Family and Community Studies Specialty. This course is designed for students who have already taken an introductory course in social studies. Students examine the New York and national standards in social studies education and their applications in actual classroom settings. Document-based and inquiry-directed instruction are emphasized.

EECE 761. EDUCATING THE NON-NATIVE SPEAKER OF ENGLISH: THEORY AND RESEARCH. 3 Hr.; 3 Cr. Elective Course in the Family and Community Studies Specialty. This course examines the philosophy, rationale, and historical background of bilingual education. By using information provided by research in the field, participants will discuss the programs, models, and trends while exploring the sociological and political aspects of bilingual education. Special emphasis is placed on the analysis of the research in first and second language acquisition as well as the study of strategies to develop the first language and acquire a second language through the content areas.

EECE 762. SCHOOLS IN A DIVERSE SOCIETY. 3 Hr.; 3 Cr. Elective Course in the Education for Diverse Populations Specialty. Required Course in Bilingual Extension. This course is designed to address the multi-faceted dimensions of teaching and learning in a rapidly changing, highly diverse society. Participants review research and theoretical literature in the fields of culture and cognition as they relate to educational practice. Included are traditional elements of culture such as ethnicity, language, and religion as well as less traditional elements of cultural diversity such as age, gender, sexual orientation, social class, and physical disability.

EECE 763. TEACHING OF READING AND LANGUAGE ARTS IN BILINGUAL EDUCATION. 3 Hr.; 3 Cr. Elective Course in the Language and Literacy and Education for Diverse Populations Specialties. Required Course in Bilingual Extension. This course discusses the characteristics of language arts in the mother tongue in the bilingual classroom and the development and evaluation of literacy in the first language and the transfer of skills from one language to another. Participants will learn and practice different methodologies for teaching language arts; develop skills in analyzing and creating instructional materials to teach in the native language; and elaborate techniques to evaluate existing language arts programs in the area.

EECE 764. LEARNING THE CONTENT AREAS IN MULTILINGUAL SETTINGS: TEACHING AND ASSESSMENT. 3 Hr.; 3 Cr. Elective Course in the Language and Literacy and Education for Diverse Populations Specialties. Required Course in Bilingual Extension. This course focuses on the study, analysis, application, and creation of appropriate classroom instructional strategies to teach content areas to language minority students. Students practice different methodologies in teaching mathematics, science, social studies, and other content areas in the first and second language, and consider the evaluation issues related to language and content.
in the bilingual-multicultural classroom. Participants develop skills to examine, evaluate, and create instructional materials to teach language to minority children in their mother tongue.

EECE 765. Internship in a Bilingual Classroom. 3 hr.; 3 cr. Required course in Bilingual Extension. This course has been designed to allow the future bilingual teacher the opportunity to live the experience of teaching in a bilingual setting. It is expected that through the internship, participants will show their professional strengths when teaching limited English-proficient students. During the internship, bilingual teachers will demonstrate their ability to communicate and teach effectively in the first and second language of the students.

EECE 766. English Language Learning in the Bilingual Classroom: Theoretical Background. 3 hr.; 3 cr. Elective course in the Language and Literacy and Education for Diverse Populations Specialties. Required course in Bilingual Extension. Designed for bilingual teachers, this course concentrates on theoretical approaches to the study of the second language learning process in a bilingual classroom. Students explore aspects of second language acquisition as well as those factors involved in individual variations in achievements of non-native speakers of English attending bilingual programs.

EECE 767. English Language Learning in the Bilingual Classroom: Pedagogical Applications. 3 hr.; 3 cr. Elective course in Language and Literacy and Education for Diverse Populations Specialties. Required course in Bilingual Extension. Designed for bilingual educators, this course surveys the alternative teaching methodologies for the learning of English as a new language. Students analyze and apply classroom practices such as audiolingual and communicative methodologies used in the field of second language learning. Special attention is placed on integrating English language teaching in the areas of mathematics, science, and social studies.

EECE 768. Supporting Development in Children with Special Needs. 3 hr.; 3 cr. Required course in the Education for Diverse Populations Specialty. This course highlights the variety of developmental paths that children take to successful functioning. Students examine classroom practices that facilitate the performance of children with special needs, and develop strategies for building collaborations with families and communities to increase the effectiveness of educational interventions.

EECE 770. Supervision of Student Teachers in the Elementary School. 3 hr.; 3 cr. Prereq.: Matriculation in the M.S. in Education program or permission of Department; coreq.: currently teaching full-time in an elementary or early childhood classroom and current involvement with student teacher.

EECE 772. Families and Communities as Educators. 3 hr.; 3 cr. Required course in the Family and Community Studies Specialty. Examines historical and contemporary interrelationships among families, communities, and schools. Students investigate how schools, families, and communities as cultural agencies promote both continuity and change. Particular attention is given to developing strategies for working successfully within families, communities, and cultures in and around New York schools.

EECE 773. Families, Stories, and Literacy. 3 hr.; 3 cr. Elective course in the Family and Community Studies and Language and Literacy Learning Specialties. Examines the reciprocal influences of families, stories, and literacy in the lives of children. Students apply constructs from developmental psychology to consider how families shape the young child’s approach to language, stories, and literacy while in turn being shaped by the child’s encounters with spoken and written words.

EECE 774. Social Issues in the Classroom. 3 hr.; 3 cr. Elective course in the Family and Community Studies Specialty. Examines survival skills from a pedagogical perspective of the kind of information children need, a developmental perspective of how children of different ages handle the information offered, and a diagnostic perspective of the risk factors and symptomatic behaviors of children in difficulty. Particular attention paid to questions of school domain, cultural differences, and family privacy.

EECE 775. Building Home-School Collaborations. 3 hr.; 3 cr. Elective course in the Family and Community Studies Specialty. Prepares early childhood teachers to establish and maintain positive collaborations with families and communities. Using family systems theory, students examine dynamics, ideas, roles, and relationships within families and communities, and consider different strategies for communicating effectively with parents and involving families in assessment and planning for individual children, including children with special needs.

EECE 776. Culture and Education. 3 hr.; 3 cr. Elective course in the Family and Community Studies Specialty. Deals with the interrelationship between culture and the educational process. Explores how schools are organized as cultural agencies and how culture organizes the activity in schools. Not limited to mainstream U.S. schools. Also looks at cases from other societies in the interest of new perspectives. Gives particular attention to the nature and uses of ethnography for teacher-researchers. Develops strategies to work successfully with the myriad of cultures in New York schools.

EECE 777. Conflict Resolution in Educational Settings. 3 hr.; 3 cr. Elective course in the Family and Community Studies and Education for Diverse Populations Specialties. Explores the origins and causes of conflict and various styles of conflict management. Conflicts between parents and teachers, teachers and administrators, students and their peers are considered. Students apply problem-solving models to multicultural school settings not included in this program.

EECE 779. Research in Children’s Literature. 3 hr.; 3 cr. Prereq.: EECE 742 and two electives in Children’s Literature. Required course in the Children’s Literature Specialty; open only to MS students specializing in Children’s Literature. This course prepares students for later research courses by 1) focusing on exemplary research in the field of children’s literature, 2) familiarizing students with professional journals, and 3) introducing students to noteworthy professional books.

EECE 780. Introduction to Educational Research. 3 hr.; 3 cr. Required course for all EECE graduate students. For MAT students, this course must be taken concurrently with or after Student Teaching. For MS students, this course must be taken within the first 12 credits. Students are introduced to basic principles of quantitative and qualitative research design in educational settings. Emphasis is given to an examination of interdisciplinary perspectives on educational and social issues and to the integration of research evaluation with professional decision-making.

EECE 781. Inquiry into Teaching. 3 hr.; 3 cr. Prereq.: All MAT course work and Student Teaching. Open only to MAT students. This culminating course for MAT students synthesizes theory and practice through a student-designed teacher-research project. Ongoing sharing of this classroom-based research provides a forum for discussion of key features of successful teaching. The course also addresses the interviewing process and preparation for entry into the teaching profession.

EECE 782. Teacher as Researcher. 3 hr.; 3 cr. Open only to MS students. This is the culminating course in the MS sequence. It cannot be taken until students have completed 24 credits, including their Specialty course sequence. Students integrate the work they have done in their Specialty
program with principles of educational research. Students prepare a culminating project that proposes and/or implements enhanced practice based on the theory and research that they have studied in the professional certificate program. Public presentations of the culminating projects are included in this course.

EECE 784. Research Materials in Learning Technology. 3 hr.; 3 cr. Prereq.: EECE 750 and two electives in Instructional Technology. Required course for the Instructional Technology Specialty; open only to MS students in this specialty. The course examines knowledge of research design, sample selection, instrument choice or design, types of research, data analysis and interpretation, and writing a research report related to technology use in the classroom.

EECE 785. Research in Teaching and Learning Science. 3 hr.; 3 cr. Prereq.: EECE 753 and two electives in Science Education. Required course in the Science Education Specialization; open only to MS students in this specialty. This course is based on the newest framework for research in science education informed by the National Science Teachers Association and the Association for the Education of Teachers in Science’s principles governing scientific inquiry of teaching and learning in elementary science education. Students will examine current research regarding key knowledge of research design, sample selection, instrument choice or design, types of research, data analysis and interpretation, and writing a research report related to technology use in the classroom.

EECE 786. Research in Elementary School Mathematics: Trends and Issues. 3 hr.; 3 cr. Prereq.: EECE 751 and two electives in Mathematics Education. Required course in the Mathematics Education Specialization; open only to MS students in this specialty. This course focuses on important trends and issues in mathematics research. Students acquire a historical perspective on mathematics education as well as a current overview of significant topics for research.

EECE 787. Research in Language and Literacy. 3 hr.; 3 cr. Prereq.: EECE 722 and two electives in Language and Literacy. Required course in the Language and Literacy Specialty; open only to MS students in this specialty. Deals with specific issues in language development, emergent literacy, reading instruction, writing process, language arts, and cross-cultural differences in linguistic and literacy practices and perceptions. Students develop projects for the improvement of practices in homes and schools.

EECE 788. Research in Education for Diverse Populations. 3 hr.; 3 cr. Prereq.: EECE 766 and two electives in Education for Diverse Populations. Required course in the Education for Diverse Populations Specialty; open only to MS students in this specialty. This course focuses on current policies and strategies for enhancing the effectiveness of Education for Diverse Populations. Students will examine issues in assessment, prevention, and classroom interventions for children with diverse strengths and needs.

EECE 789. Research in Family and Community Studies. 3 hr.; 3 cr. Prereq.: EECE 772 and two electives in Family and Community Studies. Required course in the Family and Community Studies Specialty; open only to MS students in this specialty. Deals with schools as institutions of socialization that complement or conflict with families and communities as institutions of socialization and develops practical solutions to their interrelationships.

EECE 790. Independent Study in Education. Prereq.: Matriculation in M.S. in Education program. Independent study or special project under supervision of a departmental faculty member. Permission of the Chair required.

EECE 791. Independent Study in Bilingual Education. Independent study or special project under faculty supervision. Permission of the Chair required.

EECE 792. Exploring Mathematical Ideas Through Literature. 3 hr.; 3 cr. Required interdisciplinary core course for MS 1–6 students. MAT students may take this course as an elective. Explores the role of literature in an elementary school mathematics program. Students discuss criteria for selecting books and address issues of equity in children’s literature, such as gender and multicultural perspectives. Students examine a wide range of math-related literature and develop effective instructional strategies for using these books to explore important mathematical concepts.

EECE 799. Exploring Mathematical Ideas Through Literature. 3 hr.; 3 cr. Required interdisciplinary core course for MS 1–6 students. MAT students may take this course as an elective. Takes an interdisciplinary approach to curriculum by combining the content and process of “doing history” with the focused use of language arts (reading, writing, speaking, and listening) as a means of learning in the elementary school. By applying the critical perspective of historians to the study of quality children’s literature dealing with the past, this course engages teachers in curricular issues of both content and process.

EECE 797. Queens County as a Learning Lab. 3 hr.; 3 cr. Required interdisciplinary core course for MS 1–6 students. MAT students may take this course as an elective. Working with organizations, institutions, and historical sites within the borough of Queens, students investigate and reflect on teaching and learning strategies for incorporating a study of Queens into their classrooms. Emphasis is on the historical, geographical, political, economic, and social development of the borough.
The Department of Secondary Education and Youth Services prepares teachers for the middle, junior high, and senior high schools through New York State-accredited programs: 1) the Initial Certificate program leading to initial certification in Adolescence Education; and 2) the Master of Science degree in Secondary Education leading to professional certification in Adolescence Education. Each program has a concentration in a specific academic area, as well as education content courses.

**Faculty**

Armour-Thomas, Eleanor, Chair, Professor, Ed.D. 1984, Teachers College, Columbia University: educational psychology, cognitive functioning, human growth and development, instructional psychology

Anderson, Philip M., Professor, Ph.D. 1979, University of Wisconsin at Madison: English education, mass media, reading, curriculum development

Artzt, Alice, Professor, Ph.D. 1983, New York University: mathematics education

Asher, Rikki, Assistant Professor, Ed.D. 1991, Columbia University: art education

Bassey, Magnus O., Associate Professor, Ed.D. 1989, Rutgers: social and philosophical foundations of education

Colley, Kabba, Assistant Professor, Ed.D. 1996, Harvard University: science and technology education

Costigan, Arthur T., Assistant Professor, Ph.D. 2000, New York University: English education

Curcio, Frances R., Professor, Ph.D. 1981, New York University: graph comprehension, language and discourse in the mathematics classroom, mathematical problem-solving

Davis, Jacqueline F., Assistant Professor, Ph.D. 1998, University of Georgia: language education

Dickson, Randi, Assistant Professor, Ed.D. 1999, Columbia University: English education

Dong, Y. Ren, Associate Professor, Ph.D. 1995, University of Georgia: English as a second language (TESOL), teaching composition

Gerwin, David, Assistant Professor, Ph.D. 1997, Columbia University: social studies education and oral history

Miller, June K., Assistant Professor, Ed.D., 1985, Columbia University: science education and evaluation, education for the gifted and talented

Moncada-Davidson, Lillian, Assistant Professor, Ph.D. 1990, Columbia University: sociology and education

Zevin, Jack, Professor, Ph.D. 1969, University of Michigan: social studies education, curriculum development, education of the gifted and talented, economics education, philosophy in the elementary classroom

**Admission Requirements**

All students must have a Bachelor’s degree from an accredited college or university, or the foreign equivalent. They must have completed: 1) a major in the area in which they wish to become certified; 2) one year of college-level study, or its equivalent, in a language other than English; and 3) an undergraduate education sequence (including student teaching or its equivalent). Students should also have a cumulative and departmental average of at least B (3.0).

**MASTER OF SCIENCE IN SECONDARY EDUCATION PROGRAMS**

Students enrolling in Master of Science in Secondary Education programs will be assigned an Adviser in the area of certification who will meet with and review the student’s background. Together, they will plan an appropriate program of graduate courses. This approved program is to be filed with the Department during the first semester of attendance. The student may not depart from this approved program without permission of the Adviser. Each academic area has its own course requirements. In general, students take about half of their program in the appropriate academic department and half in education.

**Planning a Program in Secondary Education**

Each subject area has its own pattern of instruction. Following is a list of program Coordinators/Advisers in the various areas of certification:

Art: R. Asher

English: A. Costigan, R. Dickson, Y. Dong

General Science: J. Miller, K. Colley

Mathematics: A. Artzt, F. Curcio

Foreign Languages: J. Davis

Social Studies: D. Gerwin, J. Zevin

To obtain the Master of Science in Education degree, students must complete 30 or more graduate credits in an approved course of study. Students should consult with an Adviser in the appropriate area before choosing courses. Generally, students pursuing the M.S. in Secondary Education take the following sequence of courses:

**Credits**

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historical, Philosophical</td>
<td>3</td>
</tr>
<tr>
<td>Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>Psychological Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Curriculum Methods in Secondary</td>
<td>3-6</td>
</tr>
<tr>
<td>Education</td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td>3-6</td>
</tr>
<tr>
<td>Elective (optional)</td>
<td>3</td>
</tr>
</tbody>
</table>

Although the above sample program represents the general pattern of courses within the M.S. in Secondary Education sequence, there may be differences for academic areas. Students are strongly urged to see Advisers as early as possible.

As indicated above, in choosing academic courses, students should read the section of the *Bulletin* appropriate to their certification area and consult with an Adviser in the appropriate department.

Research is an important component of every Master’s program. Requirements vary with each certification area. Students should consult with their Advisers concerning research options and the appropriate semesters in which to undertake research.

**Initial Certificate Program**

For students who decide late in their undergraduate careers or after they graduate to pursue certification as teachers, the department offers a sequence of courses, consisting of 21 credits, which leads to an Initial Certificate. This sequence provides an integrated program that includes the course work and field experience necessary to meet state requirements for initial certification in adolescent education in a specific academic subject area.

Upon completing the Initial Certificate program, students will be recommended for initial certification provided they have also completed the required 36 credits in their major and met all other state requirements for initial certification. The program enables students to begin teaching and gain the experience necessary for professional certification while they complete the course work required for the Master’s degree.

Students who earn the Initial Certificate will automatically become eligible for matriculation in the Master of Science in Education program in their major area. As part of the course work for the Initial Certificate, students will have taken SEYS 700, a 3-credit course that can be applied toward the requirements for the Master’s.

Students who complete the course and credit requirements for the Master’s program in their respective areas will have met the educational requirements for professional certification as well as for the degree of...
Master of Science in Education.

Program Requirements
Students must hold a Bachelor’s degree with a major (or the equivalent) in the subject area in which they wish to be certified. Students who were not subject area majors but have a minimum of 21 appropriate credits in the content area may be accepted but are required to complete at least 15 content area credits before they are recommended for initial certification. The courses making up these 15 credits will be selected with the approval of the major Adviser. Students who have more than 21 subject-area credits but fewer than 36 will be required to make up the corresponding number of missing credits. In all cases, the Adviser will ensure that the distribution of the 36 subject-area credits is appropriate to the requirements of certification in the student’s major area.

Students are also required to have one year of college study, or its equivalent, in a language other than English. They must also meet the general admissions requirements for graduate study at Queens College, including a cumulative and departmental average of at least B (3.0) to remain in the program.

Following fulfillment of the Initial Certificate program (21 credits), students may complete the remaining graduate courses required for the Master of Science in Education degree in Secondary Education (12 credits in education and 15 credits in the content area), which will lead to professional certification.

Course Work in Initial Certificate Program
The Initial Certificate program comprises the following:
1) An education sequence of 21 credits:
   b) The Drug and Alcohol Abuse Seminar.
   c) Violence Prevention Seminar.

2) Completion of 36 credits in the student’s area of certification.
3) Students are required to take three seminars offered through the College’s Continuing Education Program: a) The Child Abuse, Identification, and Reporting Seminar, b) The Drug and Alcohol Abuse Seminar, and c) Violence Prevention Seminar.

Upon completion of the Initial Certificate program (outlined above in 1, 2, and 3), students will have satisfied the academic requirements for initial certification as teachers of secondary academic subjects in New York State. Passing of the following New York State Teacher Certification Examinations will complete their qualifications for initial certification: Liberal Arts and Sciences Test (LAST), the Secondary version of the Assessment of Teaching Skills-Written (ATS-W), and the Content Specialty Exam. LAST and the content area specialty exam may be taken prior to the beginning of the Initial Certificate program or at any time thereafter. ATS-W would normally be taken near the end of the program or upon its completion.

When students have fulfilled the above requirements they will apply through the Division of Education for New York State initial certification.

Following fulfillment of the Initial Certificate program, students will complete the remaining graduate courses required for the Master of Science in Education degree in Secondary Education, which will lead to professional certification.

SEYS 536. Educational Foundations. 3 hr. plus 25 hr. field experience; 3 cr. Prereq.: Permission of the Department. Overview of theory and research on key sociological, philosophical, historical, and political foundations of education. Consideration will be given to how these foundational issues are evident in classroom situations and practice. Attention will also be given to multilingual, multicultural, and biliteracy issues in education as well as how the growth in technology has influenced the educational environment. Includes field experience component for students not currently teaching.

SEYS 552. Educational Psychology. 3 hr. plus 25 hr. field experience; 3 cr. Prereq.: Permission of the Department. Overview of developmental and instructional issues in teaching middle childhood and adolescents. The role of technology in cognition and instruction for diverse learners including those within the full range of disabilities and exceptionalities will be examined. Second language development and issues related to language acquisition and English language proficiency will also be explored. A supervised clinical experience in middle school or intermediate school is required for students not currently teaching in secondary schools.

SEYS 560-564. Seminar in the Teaching of _______ in Middle and High School. 3 hr. plus 25 hr. field experience; 3 cr. Prereq.: Permission of the Department. Prereq. or coreq.: SEYS 552. Students’ pedagogical content knowledge in their specific subject areas is developed in this course. Research-based learning, instructional and assessment strategies, as well as the secondary school curriculum will be examined. The course also examines issues of language, literacy, and culture and how they impact the learning and teaching of the specific content. As well, emphasis is placed on the use of technology in instruction.

560. Seminar in the Teaching of English in Middle and High School.

561. Seminar in the Teaching of Mathematics in Middle and High School.

562. Seminar in the Teaching of Science in Middle and High School.

563. Seminar in the Teaching of Social Studies in Middle and High School.

564. Seminar in the Teaching of Foreign Language in Middle and High School.

SEYS 570-574. Student Teaching in _______ for Middle and High School. 6 cr., 200 hr. field experience; 25 four-hour days each at two sites. Prereq.: Permission of the Department; coreq.: SEYS 580-584. School-based teaching experiences are provided that prepare student teachers to effectively teach students at both the middle and high school levels. Student teachers are placed at two field sites, one in middle-junior high school and the other in high school. They spend a minimum of 20 days at each site, teaching under the guidance of a cooperating teacher and a college-based supervisor at each school.

570. Student Teaching in English for Middle and High School.

571. Student Teaching in Mathematics for Middle and High School.

572. Student Teaching in Science for Middle and High School.

573. Student Teaching in Social Studies for Middle and High School.

574. Student Teaching in Foreign Language for Middle and High School.

SEYS 580-584. Standards-Based Curriculum and Assessment in Teaching _______. 3 hr.; 3 cr. Coreq.: SEYS 570-574. An examination of current standards-based curriculum and assessment strategies and how they can be transformed into effective classroom practice. This class is corequisite with SEYS 570-574 so as to enrich the student teacher’s understanding of curriculum and assessment issues within an actual classroom. Special topics include strategies for preparing students for Standardized Examinations, ways of integrating innovative curricula and technology in instruction, and assessment strategies for diverse student populations, including those with special needs.

580. Standards-Based Curriculum and Assessment in Teaching English.

581. Standards-Based Curriculum and Assessment in Teaching Mathematics.

582. Standards-Based Curriculum and Assessment in Teaching Science.

583. Standards-Based Curriculum and Assessment in Teaching Social Studies.

584. Standards-Based Curriculum and Assessment in Teaching Foreign Language.
Second Language in Education, 3 hr. plus 25 field experience; 3 cr. Prereq.: SEYS 536. Intended to deepen and broaden students’ understanding of language development in adolescence, and multilingual, multicultural, and biliteracy issues in education. Particular emphasis will be given to the role of language and culture in a pluralistic and democratic society. Students will learn about the nature of language acquisition, English language proficiency for academic purposes, cross-cultural understanding, second language development, and strategies for teaching subject matter knowledge to English Language Learners (ELL). Course content will focus on the characteristics and needs of ELL populations. Students will examine the instructional strategies of the teachers in relation to the unique needs of these populations. The literacy demands of content curricula in secondary schools will also be critically examined.

MS in Ed. in Art Education (Visual Arts)
The program for the Master of Science degree in Art Education has two tiers. For students who have obtained the initial certificate in art education Pre-K–12, the Master’s Degree Program of 30 credits leads to a professional certificate. For students who have completed a Bachelor’s degree in art, the Master’s Degree Program of 51 credits leads to an initial certificate after completing 24 credits in education, and a professional certificate upon completion of the entire 51 credits. Part-time enrollment is possible, meeting the needs of the full-time teacher. All courses are scheduled in the late afternoon or evening. A thesis is required.

The Professional Certificate program, Master’s Degree Program in Art Education, meets the needs of the individual art student. Students may choose from a group of education courses from either SEYS or EECE for three credits of elective work. Those courses fall under the categories of Historical, Philosophical, Social, and Psychological Foundations of Education. In addition, students complete 6 credits in art education workshop courses, 6 credits in research, and 15 credits in studio art and art history.

Program for Professional Certification in Visual Arts Education (30 credits)
Foundations or Psychology of Education: select one course from SEYS 701–708, 710, 717, 720, 738 (3 cr.) or EECE 710, 711, 712, 713, 714 3 cr.
Workshop in Art Education: select two courses from among SEYS 712, 724, 725, 727, 732 6 cr.
Research Seminar in Art Education
SEYS 773, 774 6 cr.
Fifteen credits of this Master’s Degree Program are taken in the Art Department distributed across Studio and Art History (Studio Art at 600 level and Art History at 500 level). At least 3 credits and no more than half must be in Art History.

Program Requirements
The applicant must possess a baccalaureate degree in art from an accredited institution and a minimum grade-point average of 3.0 (on a 4-point system) or B, both in art and education courses at the undergraduate level. Students applying for the Professional Certificate Master’s Degree Program must have a New York State Teacher’s Certificate in Art, either Provisional or Initial, or the equivalent from another state. Students must submit a portfolio of 15 slides of their artwork, three letters of reference, and an essay describing interest in further study. Admission is based on a combination of transcript review, portfolio, and letters reviewed by art and art education faculty.

Master’s Degree Requirements
Students must complete 3 credits in foundations or psychology of education from among the following: SEYS 701–708, 710, 717, 720, 738; EECE 710, 711, 712, 713, 714.
Six credits in art education from among: SEYS 712 (Visual Thinking), SEYS 724 (Classroom Methods in Crafts), SEYS 725, (Classroom Methods in Printmaking), SEYS 727 (Classroom Methods in Computer Art), SEYS 732 (Seminar in Art Education); these courses are open as electives to other matriculated students with departmental permission.
Six credits in research in art education: SEYS 773 and 774. The required thesis is completed as part of these courses. A minimum of 15 credits in Studio Art (at the 600 level) and Art History (at the 500 level), at least 3 credits but no more than half of the art courses must be taken in art history.
A B (3.0) average is required throughout the program of 30 credits and for graduation. Students will successfully complete a thesis.

Initial Certificate Requirements
Complete the following courses: SEYS 536, 552, 565, 575; EECE 533, 711, and either SEYS 700 or EECE 525.
After completing the requirements for the initial certificate in art education, students may matriculate into the Master’s Degree Program in Art Education.
SEYS 702. The History of Education in the United States. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational foundations (historical, philosophical, or social).

SEYS 703. Philosophies of Education. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational foundations (historical, philosophical, or social).

SEYS 704. The Philosophy of Teaching. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational foundations (historical, philosophical, or social).

SEYS 705. School and Community. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational foundations (historical, philosophical, or social).

SEYS 706. Introduction to Comparative Education. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational foundations (historical, philosophical, or social).

SEYS 707. Major Issues in Education. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational foundations (historical, philosophical, or social).

SEYS 708. Seminar in Theoretical Study of Education. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational foundations (historical, philosophical, or social).

SEYS 709. Humanistic Psychology: Educational Applications. 2 hr. plus conf.; 3 cr. Prereq.: Undergraduate work in educational psychology.

SEYS 710. The Psychology of Adolescence. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational psychology.

SEYS 711. Workshop in Art Education in the Elementary School. 3 hr.; 2 cr. Prereq.: One course in art education or permission of the Chair. May be repeated for credit if topic is changed.

SEYS 712. Workshop in Visual Thinking. 3 hr.; 3 cr. An advanced course in art education with emphasis on the understanding and development of visual thinking and perceptual awareness. This course attempts to increase the student's ability to observe, remember, visualize, analyze, and discuss visual phenomena and art. Various media and techniques will be utilized.

SEYS 713. Learning Theory in Education. 2 hr. plus conf.; 3 cr. Prereq.: Course in psychology of the elementary school child, or psychology of the adolescent student, or permission of the Department.

SEYS 714. Classroom Management. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational psychology. Principles and practices of classroom management in secondary schools with a focus on dealing with behavior and discipline problems.

SEYS 715. Understanding Group Behavior and Cultural Differences in Schools. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational psychology.

SEYS 716. The Teaching Process. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational psychology. Examination of current literature relating to the analysis of teaching. Study of recent research and other materials on the nature of teaching.

SEYS 717. Psychological Foundations

SEYS 718. Classroom Management. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational psychology. Principles and practices of classroom management in secondary schools with a focus on dealing with behavior and discipline problems.

SEYS 719. Understanding Group Behavior and Cultural Differences in Schools. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in educational psychology.

SEYS 720. The Education of Immigrants' Children in the United States. 3 hr.; 3 cr. This course will deal with international migration to the United States from a historical perspective, including the development of United States immigration policies and their impact on the socio-cultural adaptation of immigrants to the host society, especially in relation to the education of young people. The course will address issues of discrimination, differential socialization, and multicultural problems. Students are expected to acquire first-hand experience by interacting with a recent immigrant family and following the educational experience of recent immigrant students presently attending a school in the United States.

SEYS 721. Workshop in Art Education in the Elementary School. 3 hr.; 2 cr. Prereq.: One course in art education or permission of the Chair. May be repeated for credit if topic is changed.

SEYS 722. Workshop in Visual Thinking. 3 hr.; 3 cr. An advanced course in art education with emphasis on the understanding and development of visual thinking and perceptual awareness. This course attempts to increase the student's ability to observe, remember, visualize, analyze, and discuss visual phenomena and art. Various media and techniques will be utilized.
SECONDARY EDUCATION

languages through mathematics, science, and social studies.

SEYS 745. Reading and Writing for Diverse Students in Content Areas. 3 hr.; 3 cr. Designed for implementing effective instructional strategies for teaching linguistically and culturally diverse students. The course focuses on these students’ difficulties with reading and writing in English in content areas and how to structure an integrated content and language and literacy instruction which addresses these students’ needs and prepares them for challenging academic work across disciplines.

SEYS 746. Multicultural Literature. 3 hr.; 3 cr. A survey of literature works from/about African, Asian, Caribbean, Hispanic cultures, etc. for use in middle and high school English language arts classes. The course focuses on a critical examination of curricular and pedagogical issues salient to teaching multicultural literature and developing ways of promoting cross-cultural understanding and approaches for including multicultural literature in the school curriculum.

SEYS 750. Mathematics in the Junior High or Middle School. 2 hr. plus conf.; 3 cr. Prereq.: Undergraduate course in methods of teaching mathematics, and permission of Chair.

SEYS 751. Mathematics in the High School. 2 hr. plus conf.; 3 cr. Prereq.: Undergraduate course in methods of teaching mathematics, and permission of Chair.

SEYS 752. Problems in Teaching General Science in the Junior High School. 2 hr. plus conf.; 3 cr. Prereq.: Appropriate basic courses in science and methods of teaching science in the secondary school, or secondary school science teaching experience.

SEYS 760. Curriculum Innovations in the Social Studies. 2 hr. plus conf.; 3 cr. Prereq.: 30 credits in the social sciences (undergraduate and/or graduate) and basic undergraduate or graduate course in curriculum and methods of teaching social studies in secondary schools.

SEYS 761. Law and the Social Studies. 2 hr. plus conf.; 3 cr. Prereq.: Completion of an undergraduate sequence in social studies education.

SEYS 763. Mass Media in School and Society. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate course in curriculum and methods of teaching English in secondary schools. An examination of the media of mass communication from the point of view of the teacher. The focus of the course is on the improvement of instruction through a critical evaluative study of the bases, processes, techniques, and probable effects of mass media on school and society.

SEYS 764. The Secondary School Curriculum: Current Theories and Controversies. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate courses in secondary school curriculum and methods and student teaching or teaching experience.

SEYS 765. Teaching the Slow Learner in Secondary Schools. 2 hr. plus conf.; 3 cr. Prereq.: Basic undergraduate or graduate courses in secondary school curriculum and methods, or secondary school teaching experience.

SEYS 766. Workshop in Junior High School Education. Prereq.: Undergraduate or graduate courses in curriculum and methods of teaching a specific subject in secondary schools; coreq.: Secondary school teaching. May be repeated for credit if topic is changed.

SEYS 767. Workshop in Secondary Education. Prereq.: Basic undergraduate or graduate courses in curriculum and methods of teaching a specific subject in secondary schools; coreq.: Secondary school teaching. May be repeated for credit if topic is changed.

SEYS 790. Independent Study in Secondary Education. Prereq.: Matriculation in the Master of Science in Secondary Education Program. Permission of the Chair is required. Independent study or special project under the supervision of a departmental faculty member. This course may be repeated for credit if the topic is changed for a maximum of 6 credits.

Research Courses

Research courses open to Master of Science in Secondary Education candidates with permission of appropriate Adviser.

SEYS 769, 770. Scientific Approach to Educational Problems. 2 hr.; 3 cr. each course. Prereq.: For SEYS 769, matriculation in the M.S. in Education program, completion of one graduate curriculum course, and completion of 20 graduate credits; for SEYS 770, SEYS 769 during the preceding semester.

SEYS 771, 772. Seminar in Research in Educational Foundations. 2 hr. plus conf.; 3 cr. each course. Prereq.: For SEYS 771, matriculation in M.S. in Education program, and completion of two appropriate graduate courses in philosophical, historical, or comparative education; for SEYS 772, SEYS 771 during the preceding semester. Examination and evaluation of research in educational foundations: philosophy, historical, comparative education. Topics to be announced each year.

SEYS 773, 774. Seminar in Research in Art Education. 2 hr. plus conf.; 3 cr. each course. Prereq.: Matriculation in the M.S. in Education (Art Education) program, completion of 20 graduate credits. SEYS 773 prepares students for research projects. It is a prerequisite to SEYS 774 and does not satisfy the research requirement. In SEYS 774, students complete the required research project.

SEYS 775, 776. Seminar in Research in Mathematics Education. 2 hr. plus conf.; 3 cr. each course. Prereq.: For SEYS 775, matriculation in M.S. in Education (Mathematics) program, 20 credits in graduate program, 30 credits in mathematics (undergraduate and graduate), and SEYS 750 and 751; for SEYS 776, SEYS 775 during the preceding semester.††

SEYS 777, 778. Seminar in Research in Science Education. 2 hr. plus conf.; 3 cr. each course. Prereq.: For SEYS 777, matriculation in M.S. in Education (Science) program, completion of 20 graduate credits, and 30 credits (undergraduate and graduate) in general science; for SEYS 778, SEYS 777 during the preceding semester.

SEYS 779, 780. Seminar in Research in Psychological Foundations. 2 hr. plus conf.; 3 cr. each course. Prereq.: For SEYS 779, matriculation in M.S. in Education program and two courses in Psychological Foundations area; for SEYS 780, SEYS 779 during the preceding semester.††

SEYS 781, 782. Seminar in Research in Language Arts. 2 hr. plus conf.; 3 cr. each course. Prereq.: For SEYS 781, matriculation in M.S. in Education (English) program, completion of 20 graduate credits, and 30 credits in English (undergraduate and graduate); for SEYS 782, SEYS 781 during the preceding semester.††

SEYS 783, 784. Seminar in Research in the Teaching of Social Studies. 2 hr. plus conf.; 3 cr. each course. Prereq.: For SEYS 783, matriculation in the M.S. in Education (Social Studies) program, completion of 20 graduate credits, and 30 credits (undergraduate and graduate) in social studies; for SEYS 784, SEYS 783 during the preceding semester.

SEYS 785. Seminar in Research in For-
E D U C AT I O N A L & C O M M U N I T Y P R O G R A M S

Chair: Jesse M. Vázquez

Graduate Program Coordinators: Administration and Supervision, K. Dunn; Counselor Education, J. Pellitzeri; Literacy Education, H. Margolis; Special Education, E. Erwin; School Psychology, M. Fish.

Dept. Office: Modular #3 Building, 997-5240, 5250

The Department of Educational and Community Programs prepares students for leadership positions in school administration, school psychology, and counselor education. In addition, the Department prepares students to become specialists in reading and literacy and special education. Graduates have found employment in schools, community agencies, industry, and other institutions dealing with human services.

All students must meet appropriate standards in scholarship, communication skills, character, interpersonal relations, and social judgment to continue in any program. Students may be subject to review by a departmental committee for an assessment of the above.

Preregistration

Preregistration is conducted by each program in the Department. Students must consult their Advisers before registering, and should contact departmental secretaries for the dates of preregistration.

Department-wide Courses

EC 749. Independent Study in Education. Prereq.: Matriculation in M.S. in Ed. Program or in an ECP Advanced Certificate Program in Ed. Independent study or special project under supervision of a departmental faculty member. Permission of the Chair required. No more than 3 credits of Independent Study may be taken. This course may be given Pass/Fail for students in the Advanced Certificate Program in Education, with permission of the Chair.

EC 749.1. 1 cr.
EC 749.2. 2 cr.
EC 749.3. 3 cr.

ECP 790. Workshop in Current Issues in Education and Human Services. Prereq.: Permission of Department. Course content will vary from year to year and will cover a range of issues. May be repeated for credit if topic is changed.

ECP 790.2. 2 hr.; 2 cr.
ECP 790.3. 3 hr.; 3 cr.
ECP 790.4. 4 hr.; 4 cr.

LITERACY EDUCATION PROGRAMS

Coordinator: Howard Margolis

The Literacy Programs reflect the teacher certification regulations for literacy specialist at two levels: Birth–Grade 6 and Grades 5–12, and the diversity of literacy learners. The 36-credit programs provide courses in all areas of literacy and prepare individuals for leadership in literacy program development as well as compensatory programs. The programs provide course work at the two age/grade levels (childhood and adolescent education). Furthermore, the programs offer courses that focus on diverse literacy learners, particularly English language learners and children with language learning disabilities. The breadth of program offerings in literacy draws upon the literacy expertise throughout the Division of Education.

Faculty

Margolis, Howard, Coordinator, Professor, Ed.D. 1974, Hofstra University: diagnosis and remediation of learning difficulties, interdisciplinary team functioning, motivation theory, parent involvement in program planning
Hittleman, Daniel R., Professor, Ed.D. 1971, Hofstra University: research supervision, curriculum, and instructional strategies

With specialists from the field.

Requirements

Admission into the Graduate Literacy Programs is open to individuals who hold a provisional or initial certificate in early childhood, childhood, middle school, adolescent, and/or special education. Applicants must complete the graduate application and may be required to participate in an interview. Admissions are limited and competitive. The entire record of the applicant is considered in the admissions process including undergraduate and graduate GPA, teaching and other experiences with children and adolescents, and demonstration of leadership and scholarship.

For those who have completed a degree and hold initial teacher certification, an overall GPA of 3.0 is required for admission. Individuals who have completed a Master’s degree program leading to teacher certification may apply for advanced standing of up to 12 credits of appropriate study in literacy and research.

A professional portfolio is required for graduation. Components for the portfolio will be created within courses, compiled as part of the research courses, and assessed by faculty, students, and literacy specialists. The portfolios will be assessed within the areas of a) knowledge of contemporary theories of literacy instruction, assessment and research, b) application of contemporary literacy instructional and remedial practices, c) knowledge and application of literacy learning theories and practices for English Language Learners and individuals with language learning disabilities, and d) demonstration of leadership and scholarship in literacy education.

Graduation requirements include completion of 24 credits of required course work and 12 credits in the areas of diversity, literature, literacy pedagogy, and content area literacy, a GPA of 3.0, and successful completion of a professional portfolio and research project.

Content Courses

ECPLE 781. Foundations of Literacy Development and Instruction. 3 hr.; 3 cr. Study of the theory and practice of literacy development and instruction. The major area of inquiry is the psychological, sociological, cognitive, and linguistic bases of literacy. Specific topics include the role of literacy in society, history of literacy instruction, current schoolwide early childhood, childhood, middle education, and adolescent literacy instructional programs, differentiation of instruction for students with diverse needs, family literacy partnerships, children and adolescent literature, classroom organization, classroom and schoolwide assessment programs, literacy in a technological age, and processes of developing literacy proficiency. Special emphasis is placed on factors underlying development of print awareness and usage at all levels, including word identification and spelling strategies, vocabulary skills, comprehension
EDUCATIONAL & COMMUNITY PROGRAMS

**Literacy Education Program, Birth to Grade 6: Sequence of Courses**

**YEAR 1 (12 CR.)**

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<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>ECPLE 781 (3 cr.) and Elective Specialty Course (3 cr.)</td>
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**YEAR 2 (12 CR.)**

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**YEAR 3 (12 CR.)**

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**Literacy Education Program, Grades 5-12: Sequence of Courses**

**YEAR 1 (12 CR.)**

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<th>Fall Semester</th>
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<td>ECPLE 781 (3 cr.) and Elective Specialty Course (3 cr.)</td>
<td>ECPLE 785 (3 cr.) and Elective Specialty Course (3 cr.)</td>
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**YEAR 2 (12 CR.)**

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<th>Fall Semester</th>
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<tr>
<td>ECPLE 783.2 (3 cr.) and ECPLE 789 (3 cr.) or Elective Specialty Course (3 cr.)</td>
<td>ECPLE 784.2 (3 cr.) and ECPLE 789 (3 cr.) or Elective Specialty Course (3 cr.)</td>
<td>Elective Specialty Course (3 cr.)</td>
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**YEAR 3 (12 CR.)**

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<td>Elective Specialty Course (3 cr.)</td>
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1. A complete listing of approved elective specialty courses is available from the Literacy Education Program’s “Elective Specialty Course Advisement Sheet” or “Student Handbook.”
2. Students may take elective specialty courses during summer session(s) at Queens College depending upon availability of course offerings. Students may apply for permission to take these courses at other institutions during the summer with prior approval of the Literacy Education Program Adviser.
3. ECPLE 786 and/or elective specialty courses may be taken in a fourth year. However, the student has the responsibility to make application to the New York State Education Department for an extension of time to complete the master’s degree program and the requirements for the Professional Certificate as Literacy Teacher, Birth to Grade 6 pursuant to Part 80-3.3(a)(1) of the Commissioner’s Regulations.

strategies, composing skills, and the supporting roles of speaking and listening to the development of reading and writing strategies. Candidates demonstrate the ability to plan for effective reading and writing instruction based on understanding the foundations of literacy.

**ECPE 782.1. Literacy Development and Instruction in Adolescent Education, Grades 5–12.** 3 hr.; 3 cr. Prereq.: ECPLE 781. Major areas of inquiry include knowledge about the nature of literacy and literacy development, developmental literacy programs, major issues in literacy instruction in the content areas, integrating technology with literacy development across the curriculum, organizing and managing balanced literacy classrooms, and differentiating developmental and content area literacy instruction for diverse children. Special emphasis is placed on the roles of speaking and listening for the development of reading and writing and the ongoing development of word identification strategies, vocabulary skills, comprehension skills, and study strategies. Candidates demonstrate ability to create and implement instructional activities in print, graphic, and multimedia forms to support the acquisition of reading and writing in all areas of the childhood education curriculum, developing children’s responses to narrative, informational, and expository text, and informal procedures for assessing literacy development and use across the curriculum.

**ECPE 782.2. Literacy Development and Instruction in Adolescent Education, Grades 5–12.** 3 hr.; 3 cr. Prereq.: ECPLE 781. Major areas of inquiry include knowledge about the nature of literacy and literacy development, developmental literacy programs, major issues in literacy instruction in the content areas, integrating technology with literacy development in content areas, and differentiating English Language Arts and content area literacy instruction for diverse students. Candidates demonstrate ability to create and implement literacy activities in the content areas.

**ECPE 783.1. Assessment and Instruction for Childhood Literacy Learning Differences, Birth to Grade 6.** 3 hr.; 3 cr. Prereq.: ECPLE 781, ECPLE 785, ECPSE 700, EECE 761 or EECE 766, and ECPLE 782.1 or EECE 740. Examination of causes of reading difficulty, elements of skilled reading, and systematic models for analyzing and remediating literacy problems for children in early childhood and childhood education. Topics include the function of standardized assessment devices in instructional decision-making, development and administration of informal assessment devices, and inventories of reading and writing performance. Topics include evaluation and modification of environmental and instructional variables contributing to literacy achievement in all areas of the curriculum, student motivation, and strategies for determining appropriate procedures to assess students with diverse abilities and cultural and linguistic backgrounds. Students demonstrate ability to systematically identify critical variables that contribute to literacy success and failure and to develop and apply various procedures for assessing literacy difficulties of students with diverse backgrounds.
ECPLE 783.2. Assessment and Instruction for Adolescent Literacy Learning Differences, Grades 5–12. 3 hr.; 3 cr. Prereq.: ECPLE 781, ECPLE 785, ECPSE 700, ECPLE 782.2, SEYS 740, SEYS 767, and SEYS 741 or SEYS 746. Examination of causes of reading difficulty, elements of skilled reading, and systematic models for analyzing and remediating literacy problems for students in middle and adolescent education. Topics include the function of standardized assessment devices in instructional decision-making, development and administration of informal assessment devices and inventories of reading and writing performance. Topics include evaluation and modification of environmental and instructional variables contributing to literacy achievement in content areas, student motivation, and strategies for determining appropriate procedures to assess students with diverse abilities and cultural and linguistic backgrounds. Candidates demonstrate ability to systematically identify critical variables that contribute to literacy success and failure and to develop and apply various procedures for assessing literacy difficulties of students with diverse backgrounds.

ECPLE 784.1. Advanced Assessment and Instruction for Childhood Literacy Learning Differences, Birth to Grade 6. 3 hr.; 3 cr. Prereq.: ECPLE 783.1. Emphasis placed on application of systematic models for analyzing and developing instructional programs for students in early childhood and childhood education who show severe literacy learning problems in all areas of the curriculum. Topics include interpreting informal and formal assessments, interactive decision-making, and specific strategies for addressing problems of word recognition, word analysis, spelling, fluency, vocabulary development, comprehension, composing, and studying. The administration and interpretation of informal reading and writing inventories is studied throughout the course. Students demonstrate ability to administer and interpret informal and formal assessments and implement specific intervention strategies for students with diverse cultural and linguistic backgrounds who are experiencing difficulty acquiring literacy proficiency. Candidates apply literacy assessment knowledge and competence in a case study.

ECPLE 784.2. Advanced Assessment and Instruction for Adolescent Literacy Learning Differences, Grades 5–12. 3 hr.; 3 cr. Prereq.: ECPLE 783.2. Emphasis placed on application of systematic models for analyzing and developing instructional programs for students in middle and adolescent education who show severe literacy learning problems in English Language Arts and content areas. Topics include interpreting informal and formal assessments, interactive decision-making, and specific strategies for addressing problems of word recognition, word analysis, spelling, fluency, vocabulary development, comprehension, composing, and studying. The administration and interpretation of informal reading and writing inventories is studied throughout the course. Students demonstrate ability to administer and interpret informal and formal assessments and implement specific intervention strategies for students with diverse cultural and linguistic backgrounds who are experiencing difficulty acquiring literacy proficiency. Candidates apply literacy assessment knowledge and competence in a case study.

ECPLE 785. Introduction to the Study of Research in Literacy. 3 hr.; 3 cr. The first of two courses in the study, understanding, and evaluation of basic research designs and methodology used in literacy education, Birth through Grade 12, and the interpretation of literacy research. Students study the scope of research in the area of literacy, the nature of being a teacher-researcher, and research processes and designs. Students demonstrate ability to read and evaluate primary research reports, interpret research syntheses, locate information about literacy research, and determine appropriateness of literacy research findings for instruction.

ECPLE 786. Seminar in Research in Literacy. 3 hr.; 3 cr. Prereq.: ECPLE 785, and ECPLE 784.1 or ECPLE 784.2. The second of two courses about the study, understanding, and evaluation of basic research designs and methodology in literacy education and the interpretation of literacy research, Birth through Grade 12. Major emphasis is on the design, implementation, and reporting of an action research project or a synthesis of research on a topic of concern in early childhood, childhood, middle school, or adolescent education.

ECPLE 787.1. Practicum in Overcoming Literacy Difficulties, Birth to Grade 6. 3 hr.; 3 cr. Prereq.: ECPLE 784.1, ECPLE 789. Provides 25 hours of supervised practicum and seminar in which participants plan and implement instruction in early childhood and childhood education for children with reading and writing difficulties. Designed to further develop teachers’ competence in applying knowledge of literacy theory and practice to instructing diverse individuals experiencing moderate and severe difficulties in literacy development. Content deals with the skills and strategies needed to assess children’s literacy strategies, plan and implement appropriate instructional procedures, and report progress to children, parents, and school officials. Supervised practicum is required for New York State Certification as literacy teacher, Birth through Grade 6.

ECPLE 787.2. Practicum in Overcoming Literacy Difficulties, Grades 5–12. 3 hr.; 3 cr. Prereq.: ECPLE 784.2, ECPLE 789. Provides 25 hours of supervised practicum and seminar in which participants plan and implement instruction in middle and adolescent education for students with reading and writing difficulties. Designed to further develop teachers’ competence in applying knowledge of literacy theory and practice to instructing diverse individuals experiencing moderate and severe difficulties in literacy development. Content deals with the skills and strategies needed to assess students’ literacy strategies, plan and implement appropriate instructional procedures, and report progress to students, parents, and school officials. Supervised practicum is required for New York State Certification as literacy teacher, Grades 5–12.

ECPLE 788.1. Advanced Practicum in Overcoming Literacy Difficulties, Birth to Grade 6. 3 hr.; 3 cr. Prereq.: ECPLE 787.1. An advanced, supervised 25-hour practicum experience and seminar in which participants instruct early childhood and childhood education students experiencing difficulties in reading and writing. Designed to develop teachers’ proficiency in applying knowledge of literacy theory and practice to create instruction for children experiencing moderate and severe difficulties in literacy development usage across the curriculum. Course content deals with strategies and skills teachers need for assessing diverse children’s literacy strategies, planning and implementing appropriate instructional procedures, and reporting progress to children, parents, and school officials. Supervised practicum is required for New York State Certification as literacy teacher, Birth to Grade 6.

ECPLE 788.2. Advanced Practicum in Overcoming Literacy Difficulties, Grades 5–12. 3 hr.; 3 cr. Prereq.: ECPLE 787.2. An advanced, supervised 25-hour practicum experience and seminar in which participants instruct middle and adolescent education students experiencing difficulties in reading and writing. Designed to develop teachers’ proficiency in applying knowledge of literacy theory and practice to create instruction for students experiencing moderate and severe difficulties in literacy development usage in the content areas. Course content deals with strategies and skills teachers need for assessing students’ literacy strategies, planning and implementing appropriate instructional procedures, and reporting progress to students, parents, and school officials. Supervised practicum is required for New York State Certification as literacy teacher, Grades 5–12.

ECPLE 789. Consultation Strategies for the Literacy Specialist. 3 hr.; 3 cr. Prereq.:
ECPL 782.2. This course assists literacy personnel to use their knowledge of literacy and literacy problems to help general classroom teachers, special education teachers, parents, Individualized Education Program (IEP) Teams, administrators, and other relevant personnel to develop literacy programs for individual students and to improve literacy across the curriculum. It focuses on definitions of consultation, effective models of consultation, consultation strategies, IEP development, federal and state special education laws, and instructional practices.

ECPL 799. Supervised Independent Study of Problems and Issues in Reading.
Prereq.: Permission of a program faculty member. Course content covers a range of issues of current importance in reading. May be repeated for credit if topic is changed.
ECPL 799.1. 1 hr.; 1 cr.
ECPL 799.2. 2 hr.; 2 cr.
ECPL 799.3. 3 hr.; 3 cr.
SCHOOL PSYCHOLOGY
Coordinator: Marian C. Fish

CERTIFICATE AND MASTER'S DEGREE PROGRAMS IN SCHOOL PSYCHOLOGY

The Graduate Program in School Psychology at Queens College is cast in the scientist-practitioner model. This model seeks to integrate theoretical knowledge and applied skills in all course work as well as in practica and internships. The goal is to prepare psychologists with high levels of ethical and professional competencies in order to provide sound psychological services in the school and other educational settings.

This 60-credit specialist level program provides the skills necessary for the professional preparation of school psychologists. It meets the academic and internship requirements for New York State Certification in School Psychology and is approved as a training institution in School Psychology by the New York State Department of Education and the National Association of School Psychologists (NASP). The program leads to a qualifying Certificate in School Psychology and a degree of Master of Science in Education. It can be completed in three years of study, including a one-year, full-time internship, or on a part-time basis, with three years of part-time study and a final year of full-time internship.

The curriculum is sequenced, with the first year focused on theoretical foundations and skill development, followed by more experiential components in the later years. The sequence is designed to introduce complex concepts slowly, building upon the basics. Course work covers assessment, intervention, evaluation, professional practice, consultation, cultural and linguistic diversity, and psychological and educational foundations. Field experiences and practica with close supervision of skills are followed by an internship, where students are given the opportunity to integrate these experiences in a practical, professional environment, both in school and clinical settings. All students follow the same basic sequence of course work, with program modifications made to meet individual needs.

A graduate of the School Psychology Program has expertise in both psychology and education, as well as a knowledge of the contributions of related disciplines. Our graduates work with regular education as well as special education students, teachers, administrators, parents, and with others in the community to develop greater understanding of all children and to contribute to constructive change in the home and in the classroom. Particular attention is given to serving the needs of children of diverse cultural and linguistic backgrounds. As a member of the school faculty, the school psychologist shares with faculty members and other professionals the responsibility for delivering services which maximize learning and personal growth in the child. The role of the school psychologist as a member of a team and as a consultant is addressed in training.

Program Objectives

Objectives of the program are to provide students with:

1. Broadly based knowledge of psychological foundations including learning, development, and biological, social, and cultural bases of behavior.
2. Knowledge of the role and functions of the school psychologist in schools and related settings.
3. Ability to work effectively with students in both general and special education, at different ages (preschool and school age), and with diverse cultural backgrounds.
4. Skills in traditional and alternative assessment procedures to identify effectively the needs of students and to evaluate the learning environment.
5. Ability to function as a consultant both at the individual and systems levels to enhance the learning and development of children, adolescents, and young adults.
6. Competency in a variety of prevention, pre-referral intervention, and remedial/counseling/therapeutic techniques for dealing with school-related difficulties.
7. Competency in designing and carrying out research and program evaluation.
8. Commitment to the legal mandates, professional standards, and ethics related to the practice of school psychology.

Bilingual Specialization in School Psychology

Students with bilingual proficiency may wish to complete a Specialization in Bilingual School Psychology, leading to a certificate with a bilingual extension. This specialization in Bilingual School Psychology requires 66 credits: the 60-credit school psychology sequence and two additional courses (3 credits each) emphasizing bilingual and multicultural issues. Students will also be placed in bilingual internship sites with qualified supervisors. Students in the Bilingual Specialization will need to demonstrate proficiency in a second language through an oral interview and a written essay.

Integrated Graduate Center - Queens College School Psychology Doctoral Specialization

Students may apply to the Integrated Graduate Center – Queens College School Psychology Doctoral Specialization leading to a Ph.D. in Educational Psychology: School Psychology, and to New York State Certification in School Psychology. Application is made through the Graduate Center Ph.D. Program in Educational Psychology (212-817-8285).

Faculty

Fish, Marian C., Coordinator, Professor, Ph.D. 1974, Teachers College, Columbia University: family systems theory, family-school relations, interventions
Angrilli, Albert, Professor Emeritus and Adjunct Professor, Ph.D. 1958, New York University: Diplomate in School Psychology ABPP: clinical and school psychology, psychotherapy, hypnotherapy
Goh, David S., Professor, Ph.D. 1973, University of Wisconsin at Madison: school psychology, measurement, and research design
Lopez, Emilia, Associate Professor, Ph.D. 1989, Fordham University: school psychology, consultation, linguistically and culturally diverse students
Ross, Roslyn P., Associate Professor, Ph.D. 1966, New York University: assessment, counseling, supervision, personality theory, child development

Requirements for Admission

Applicants for admission to the graduate program in School Psychology are required to meet the general requirements for matriculation for the Master of Science degree in Education. Matriculation for this degree is limited to graduates of approved colleges who have had adequate preparation in subject matter courses and in professional courses. Candidates for matriculation are expected to meet the standards with respect to residence, citizenship, health, character, and personality set forth in the Division of Education section of this Bulletin. Candidates will be accepted for admission only once each year to begin the program in the Fall semester. Inquiries should be directed to:

Prof. Marian C. Fish
Grad. Program in School Psychology
Educational and Community Programs
Queens College, CUNY
Flushing, NY 11367-1597
718-997-5230
www.qc.edu/ecp/scrhpsych/index.htm

Special Requirements

The prerequisite courses for the School Psychology Program are listed below:

A. All candidates are required to have had a course in each of the following areas of psychology and education:
   General Psychology
   Statistics in Psychology and Education
   Psychological Testing and Measurement
   Experimental Psychology
   Abnormal Psychology
   Physiological Psychology
   Developmental Psychology

EDUCATIONAL & COMMUNITY PROGRAMS
Selection Procedures
Applicants will be admitted through selection procedures that include the following:
1. A review of undergraduate records with a minimum cumulative average of 3.25 and an average of 3.0 in all courses in psychology and education.
2. Personal interviews.
3. Written recommendations from three undergraduate or graduate instructors in psychology and/or education.

All reference letters should be on the instructor’s stationery and mailed directly to Prof. Marian C. Fish.

Students in the Specialization in Bilingual School Psychology must also present fluency in English and a second language. Fluency is determined through a bilingual interview and a writing sample in English and the second language. Inquiries regarding the Bilingual Specialization should be directed to:
Dr. Emilia Lopez, Project Director
Bilingual/Multicultural Services in School Psychology
Grad. Program in School Psychology
Department of Educational and Community Programs
Queens College, CUNY
Flushing, New York 11367-1597
718-997-5234

Requirements for the Certificate and Master’s Degree

A. The program for each student will be modified individually depending on the student’s background and preparation. The program is a structured sequence that may be completed in three or four years, part-time. The final year in both cases requires full-time study. A grade-point average of 3.0 must be maintained.

B. Applicants with Master’s degrees in relevant areas may apply for the special Certificate Program. This program is an individually designed sequence that will require anywhere from 30 to 60 credits.

Other Requirements
New York State law mandates that all students, before receiving certification, provide documentation that they have completed seminars in: a) Child Abuse Identification and Reporting; b) Alcohol and Drug Abuse; and c) School Violence and Intervention.

Content and Sequence of the Program

The program will consist of the courses listed in the chart on the next page, which are to be taken in the order shown for the three- and four-year sequences. If a student has achieved a suitable level of competence in a particular course area through prior study, he/she may substitute an approved elective with permission of the program coordinator.

Internship Courses
Please note: It is necessary for internship students to purchase malpractice insurance, available at low cost through the American Psychological Association or the National Association of School Psychologists. Student membership in either professional organization is required to be eligible for malpractice insurance.

Grades for Practica
Students who do not receive B (3.0) or better in practica (ECPSP 772, 773, 774, 775, 777, 778, 867) may not proceed to subsequent practica and internships except with permission of the faculty.

Student Review
There will be a yearly review of students to decide whether they are progressing satisfactorily. Responsible training for work in school and mental health settings requires that in addition to meeting academic requirements, students have appropriate personal characteristics. These include but are not limited to communication skills, interpersonal skills, professional judgment, and ethical conduct. In addition, students are expected to demonstrate sensitivity to client issues and effective management of personal stress or adjustment difficulties.

At the end of each semester, the faculty of the School Psychology Program will evaluate each student’s suitability for continuation in the program, considering information from all sources in the program and related settings. The decision that a student must leave the program on personal grounds will be made by the program faculty and may be appealed, should the student wish, to a special Ad Hoc Appeals Committee of the Department, which will include no one who participated in the initial evaluation. The student shall be informed of his/her right of appeal to the Ad Hoc Committee and beyond, to the Graduate Scholastic Standards Committee.

Courses in School Psychology

ECPSP 764. Introduction to Research in School Psychology. 3 hr.; 3 cr. Prereq.: Matriculation in the School Psychology Program. This course focuses on the study, understanding, and evaluation of basic research design and methodology in school psychology and the interpretation of research. This is the first of a two-course sequence (see ECPSP 864).

ECPSP 766. Field Work in School Psychology I. 3 cr. Prereq.: Written permission of the Department. Students start in October and spend 2 days a week in a school placement. They follow the academic calendar of the school in which they are placed. Graded on a Pass/Fail basis only. Fall

ECPSP 767. Field Work in School Psychology II. 3 cr. Prereq.: ECPSP 766 and written permission of the Department. Students spend 2 days a week in a school placement. They follow the academic calendar of the school in which they are placed until the school year ends. Graded on a Pass/Fail basis only. Spring

ECPSP 768. Internship in School Psychology I. 3 hr.; 3 cr. Prereq.: Permission of Department; coreq.: ECPSP 771. Students spend 5 days a week in internship settings with a minimum of 600 hours a year in a school setting. Other settings include mental health agencies and clinics. They begin in September and follow school and agency calendars. Taken in the last year of study. Graded on a Pass/Fail basis only. Fall

ECPSP 769. Internship in School Psychology II. 3 hr.; 3 cr. Prereq.: Permission of Department and ECPSP 768. Students spend 5 days a week in internship settings with a minimum of 600 hours a year in a school setting. Other settings include mental health agencies and clinics. Students follow school and agency calendars and remain in their placements through June. Taken in the last year of study. Graded on a Pass/Fail basis only. Spring

ECPSP 770. Behavioral Assessment and Intervention. 3 hr.; 3 cr. This course is designed to familiarize students with principles and procedures of behavioral assessment and intervention. Major emphases are placed on the observation, recording, analysis, and modification of children’s behaviors in school and other related settings. Applications of behavioral techniques in treating different disorders are also covered. In addition, students are prepared to serve as behavioral consultants to school and mental health personnel. Fall

ECPSP 771. Professional Issues in School Psychology. 3 hr.; 3 cr. Coreq.: ECPSP 768. This is an integrative seminar that accompanies the first semester of internship. Prepares students for their professional role in the schools by covering topics that include ethical and legal behavior, models of service delivery, effective schooling practices, and current issues. The relationship of the school psychologist to other school personnel, families, and community agencies is emphasized. Fall

ECPSP 772, 773. Theory and Practice in
Assessment of Intelligence and Cognitive Functioning I, II. 4 hr.; 4 cr. each course. Prereq. for 772: a course in psychological testing and matriculation in the Graduate Program in School Psychology or permission of the Department; coreq. for 772: ECPSP 860. Prereq. for 773: ECPSP 772; coreq. for 773: ECPSP 862. A combined laboratory and didactic experience designed to develop the student’s competency in the administration and interpretation of individual and group tests of intelligence, perception, language, and neuro-developmental functioning and in communicating test findings to school personnel. Responsibilities involved in the use of tests in psychologist-client relationships in general are considered. 772 – Fall; 773 – Spring

ECPSP 774, 775. Theory and Practice of Personality Evaluation I, II. 3 hr.; 3 cr. Prereq.: Matriculation in the graduate program in School Psychology or permission of Department; ECPSP 860, 772. A combined laboratory and didactic experience designed to develop the student’s competency in the use of projective techniques in personality evaluation and assessment. The course is also designed to increase skill in written reporting of psychodiagnostic findings. 774 – Spring; 775 – Fall

ECPSP 777. Practicum in School Psychology. 4 hr.; 4 cr. Prereq.: ECPSP 772, 773. Students work under supervision with youngsters who have learning, behavioral, or other school-related problems. Emphasis is placed on linking formal and informal assessment strategies with interventions using a problem-solving approach. Students are required to spend a minimum of one day a week in a school setting. Spring

ECPSP 778. Counseling Techniques for School Psychologists. 3 hr.; 3 cr. Prereq.: Matriculation in the Graduate Program in School Psychology. Principles and techniques of counseling and psychotherapy, with particular emphasis on intervention strategies that are being used in the schools. Practical workshop and participation in counseling methods. Fall

ECPSP 779. Multicultural Issues in School Psychology. 3 hr.; 3 cr. This course provides an introduction to and overview of cultural and social influences that impact on individuals’ behaviors, attitudes, and cognitive and learning styles. Ethnicity, socioeconomic class, and gender issues in school psychology are presented. The course also provides students with knowledge of cultural characteristics of African-Americans, Hispanic-Americans, Asian-Americans, and Native Americans. In addition, problems in and approaches to multicultural assessment, cross-cultural consultation, and intervention with culturally diverse children and youth are discussed.

### School Psychology Degree Requirements (Three- and Four-Year Programs)

#### The content and sequence of the three-year program are as follows:

<table>
<thead>
<tr>
<th>Fall – first year</th>
<th>credits</th>
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<tbody>
<tr>
<td>ECPSP 860 Human Development</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 772 Theory and Practice in Assessment of Intelligence and Cognitive Functioning I</td>
<td>4</td>
</tr>
<tr>
<td>ECPSP 863 Exceptionality of Human Development</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 779 Multicultural Issues in School Psychology</td>
<td>3</td>
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<tr>
<td>Spring – first year</td>
<td></td>
</tr>
<tr>
<td>ECPSP 862 Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 773 Theory and Practice in Assessment of Intelligence and Cognitive Functioning II</td>
<td>4</td>
</tr>
<tr>
<td>ECPSP 865 Learning &amp; Instructional Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 774 Theory and Practice of Personality Evaluation I</td>
<td>3</td>
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<tr>
<td>Fall – second year</td>
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<tr>
<td>ECPSP 770 Behavioral Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 775 Theory and Practice of Personality Evaluation II</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 778 Counseling Techniques for School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 861 Assessment of Linguistically and Culturally Diverse Students</td>
<td>3*</td>
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<tr>
<td>Spring – second year</td>
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<tr>
<td>ECPSP 777 Practicum in School Psychology</td>
<td>4</td>
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<tr>
<td>ECPSP 867 Consultation in School Psychology</td>
<td>4</td>
</tr>
<tr>
<td>ECPSP 868 Advanced Counseling Practicum</td>
<td>2</td>
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<tr>
<td>ECPSP 866 Multicultural Interventions</td>
<td>3*</td>
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<tr>
<td>Fall – third year</td>
<td></td>
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<tr>
<td>ECPSP 771 Professional Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 768 Internship in Bilingual/Multicultural School Psychology I</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 764 Introduction to Research in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Spring – third year</td>
<td></td>
</tr>
<tr>
<td>ECPSP 864 Research Design and Data Analysis in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 769 Internship in Bilingual/Multicultural School Psychology II</td>
<td>3</td>
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#### The content and sequence of the four-year part-time program are as follows:

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>ECPSP 860 Human Development</td>
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<tr>
<td>ECPSP 772 Theory and Practice in Assessment of Intelligence and Cognitive Functioning I</td>
<td>4</td>
</tr>
<tr>
<td>ECPSP 779 Multicultural Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Spring – first year</td>
<td></td>
</tr>
<tr>
<td>ECPSP 862 Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 773 Theory and Practice in Assessment of Intelligence and Cognitive Functioning II</td>
<td>4</td>
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<tr>
<td>Fall – second year</td>
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</tr>
<tr>
<td>ECPSP 770 Behavioral Assessment and Intervention</td>
<td>3</td>
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<tr>
<td>ECPSP 863 Exceptionality of Human Development</td>
<td>3*</td>
</tr>
<tr>
<td>ECPSP 861 Assessment of Linguistically and Culturally Diverse Students</td>
<td>3*</td>
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<tr>
<td>Spring – second year</td>
<td></td>
</tr>
<tr>
<td>ECPSP 865 Learning &amp; Instructional Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 774 Theory and Practice of Personality Evaluation I</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 866 Multicultural Interventions</td>
<td>3*</td>
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<tr>
<td>Fall – third year</td>
<td></td>
</tr>
<tr>
<td>ECPSP 775 Theory and Practice of Personality Evaluation II</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 778 Counseling Techniques for School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>Spring – third year</td>
<td></td>
</tr>
<tr>
<td>ECPSP 777 Practicum in School Psychology</td>
<td>4</td>
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<tr>
<td>ECPSP 867 Consultation in School Psychology</td>
<td>4</td>
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<tr>
<td>ECPSP 868 Advanced Counseling Practicum</td>
<td>2</td>
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<tr>
<td>Fall – fourth year</td>
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</tr>
<tr>
<td>ECPSP 771 Professional Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 768 Internship in Bilingual/Multicultural School Psychology I</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 764 Introduction to Research in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Spring – fourth year</td>
<td></td>
</tr>
<tr>
<td>ECPSP 864 Research Design and Data Analysis in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ECPSP 769 Internship in Bilingual/Multicultural School Psychology II</td>
<td>3</td>
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</tbody>
</table>

*Bilingual and Multicultural Specializations only.
ECPS 780. Educational and Psychological Tests and Measurements. 3 hr.; 3 cr. A fundamental course in testing and measurement in education and psychology. Areas covered include psychometric properties of tests, technical and methodological principles in test development, social and ethical implications of testing, and issues in the use and interpretation of tests. Course is limited to students in the School Psychology Program. All others must get the permission of the program. Credits for this course will not apply toward a School Psychology certificate.

ECPS 860. Human Development. 3 hr.; 3 cr. The course of development through the lifespan is studied as the interplay between individual predispositions (genetic and biological factors, past history, current stage) and forces in the environment (other individuals, social factors, cultural tradition, training methods). Among the specific topics examined from an interactionist point of view are motivation and adaptation, the role of anxiety and other affects in regulating behavior, sense of self, attachment, and self-esteem regulation. Relevant infant and child research is reviewed. Fall

ECPS 861. Seminar in Special Issues. 3 hr.; 3 cr. This course will be devoted to special topics of current interest to school psychologists. The subject matter will change as needs arise. Topics to be addressed will include interventions, assessment, and intervention with linguistically and culturally diverse students, cognitive theory and research, consultation models, legal and ethical issues, etc. Fall

ECPS 862. Developmental Psychology. 3 hr.; 3 cr. Prereq.: Matriculation in the Graduate Program in School Psychology or permission of the program. This course is designed to familiarize students with normal developmental processes occurring from infancy through adolescence. Social, biological, and emotional factors in the origin of these pathological conditions will be studied. Attention will be paid to psychopharmacological treatment as well as other approaches in effecting change. Spring

ECPS 863. Exceptionality of Human Development. 3 hr.; 3 cr. Prereq.: Matriculation in School Psychology Program or permission of the Department; ECPS 862. Survey of types of childhood exceptionality. The concepts of health, adaptive function, and developmental crisis are reexamined in the light of various handicapping conditions. Examination of legal issues relating to handicapping conditions including current practices and procedures for management. Fall

ECPS 864. Research Design and Data Analysis in School Psychology. 3 hr.; 3 cr. Prereq.: ECPS 764 and matriculation in the School Psychology Program. An advanced course concerned with problems, procedures, and accepted practices in conducting research. A research project will be required of students. Computerized statistical techniques commonly used in analyzing and interpreting research data are covered. Spring

ECPS 865. Learning and Instructional Strategies. 3 hr.; 3 cr. Prereq.: Matriculation in the Graduate Program in School Psychology or permission of the Department. This course focuses on theoretical approaches to human learning and explores factors that influence the learning process, including developmental issues, motivational levels, and cultural/linguistic background. Theoretical models for instructional and curricular design are discussed for regular as well as special education students. Emphasis is placed on applying learning and instructional approaches to children of different ages and backgrounds. Spring

ECPS 866. Seminar in Special Issues: Multicultural Interventions. 3 hr.; 3 cr. Students acquire knowledge related to classroom procedures, curriculum programs, teaching techniques, and system interventions that are effective with culturally and linguistically diverse students. In addition, students in the specialization in Bilingual School Psychology will enroll in special sections of the internship.

ECPS 768.1. Internship in Bilingual/Multicultural School Psychology I. 3 hr.; 3 cr. Prereq.: Permission of the Department; coreq.: ECPS 771. Students spend 5 days a week in internship settings with a minimum of 600 hours a year in a school setting. Other settings include mental health agencies and clinics. The placements are in settings with a bilingual population, and students are under the supervision of qualified supervisors. The students will meet biweekly for group supervision at the College. They begin in September and follow school and agency calendars. Graded on a Pass/Fail basis only.

ECPS 769.1. Internship in Bilingual/Multicultural School Psychology II. 3 hr.; 3 cr. Prereq.: Permission of the Department and ECPS 768.1. Students spend 5 days a week in internship settings with a minimum of 600 hours a year in a school setting. Other settings include mental health agencies and clinics. The placements are in settings with a bilingual population, and students are under the supervision of qualified bilingual supervisors. The students will meet biweekly for group supervision at the College. They begin in September and follow school and agency calendars. Graded on a Pass/Fail basis only.

Specialization in Bilingual School Psychology

The specialization in Bilingual School Psychology requires 66 credits: the 60-credit School Psychology sequence, and two additional courses (3 credits each) emphasizing bilingual and multicultural issues. The additional courses are as follows:

EECE 761. Foundations of Bilingual Education. 3 hr.; 3 cr. This course will examine the philosophy, rationale, and historical background of bilingual education. By using information provided by research in the field, participants will discuss the programs, models, and trends while exploring the sociological and political aspects of bilingual education. (See full description in EECE 761 under Bilingual Education courses.) (Students who have completed a course in bilingual education may substitute Linguistics 740, Introduction to Second Language Acquisition and Teaching, for this requirement.)

ECPS 861. Seminar in Special Issues: Assessment of Linguistically and Culturally Diverse Students. 3 hr.; 3 cr. Students will develop competencies in assessing linguistically and culturally diverse students. A major emphasis is placed on learning appropriate procedures in assessing language proficiency, intellectual, academic, and personality-behavioral functioning of these students. Nontraditional alternative assessment approaches and nonbiased assessment are also covered.

ECPS 866. Seminar in Special Issues: Multicultural Interventions. 3 hr.; 3 cr. Students acquire knowledge related to classroom procedures, curriculum programs, teaching techniques, and system interventions that are effective with culturally and linguistically diverse students. In addition, students in the specialization in Bilingual School Psychology will enroll in special sections of the internship.
ADVANCED CERTIFICATE PROGRAM FOR SCHOOL ADMINISTRATOR & SUPERVISOR

Coordinator: Kenneth J. Dunn

The College will admit to the program in School Administration only those whom it considers to be potentially outstanding leaders in schools and communities. The program aims to develop the personal qualities and professional skills essential for educational leadership. To this end, it provides opportunities of many kinds, including seminar courses, simulated experiences, and planned field work experiences. Each student’s program is planned individually to make certain it includes the graduate studies that are needed to improve his or her background for the professional career for which he or she is preparing. Candidates are carefully selected from among those applicants who meet specific qualifications.

The program at the post-master’s level leads to New York State certification as School Administrator-Supervisor. Courses are also offered that may be applied toward meeting the requirements for the New York State Certificate of School District Administrator. Students enrolled in the program should plan to complete it without interruption. They may be allowed five years to satisfy all course requirements. Requests for extensions of time must be submitted to the Office of Graduate Studies. Appeals concerning this decision should be directed to the Graduate Scholastic Standards Committee, whose decision is final.

Interested individuals should make application to the program Coordinator.

Faculty

Kenneth J., Coordinator, Professor, Ed.D. 1967, Teachers College, Columbia University: administration, learning and teaching styles, administrative style, curriculum and in-service training

Victor, Kevin P., Assistant Professor, Ph.D. 2000, University of Illinois at Urbana-Champaign: computers and technology, legal problems and cases, school finance

Quinn, Terrence, Associate Professor, Ed.D. 1995, St. John’s University: administration training programs, organizational behavior, leadership styles

Tobias, Randolf A., Associate Professor, Ed.D. 1976, Teachers College, Columbia University: curriculum development and instructional strategies, social studies methods, supervision and instruction

Requirements for Matriculation

The program is open only to students who have been selected as appropriate and qualified candidates.

1. Evidence of basic professional understanding and skills, including familiarity with recent developments in the fields of
   a) social foundations, b) psychology, human development, and mental hygiene, and c) curriculum and teaching.

2. Demonstration of competency as a specialist in subject matter, teaching level or teacher skills, and/or supporting services to the educational process.

3. Scores on written tests, interviews, and experiences in the screening process that indicate leadership capabilities and potential growth. Recommendations from supervisors will be required.

4. Baccalaureate and Master’s degrees from approved institutions. If it is deemed advisable, Queens College may specify certain further graduate courses to be completed before the candidate is admitted to the program. Evidence of scholarship at the undergraduate and graduate levels will be considered.

5. A minimum of three years of successful full-time teaching experience in a public, private, or parochial school, or at the college or university level, at least one year of which has been in the past five years, is required (unless within the past five years there have been professional contacts with school children in the position of curriculum coordinator, supervisor, counselor, etc.).

PROGRAM OF STUDY FOR THE CERTIFICATE

Candidates will be required to complete the basic requirements as outlined below. Additional courses may be prescribed by the Coordinator of the program or selected by the candidates to further qualify themselves in particular fields or for particular examinations.

Students who complete 30 credits in the following sequence (maintaining an average of B [3.0] or better) are eligible to receive New York State School Administrator and Supervisor Certification.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECPAS 880 Administrative Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECPAS 881 Curriculum &amp; Supervision: Elementary and Secondary</td>
<td>3</td>
</tr>
<tr>
<td>ECPAS 883, 884 Human Relations I and II</td>
<td>6</td>
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First, Second, or Third Year

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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECPAS 885 Legal Problems</td>
<td>3</td>
</tr>
<tr>
<td>ECPAS 886 Management of Teaching and Learning for Administrators</td>
<td>3</td>
</tr>
<tr>
<td>ECPAS 887 Computers in School Administration</td>
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Second or Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECPAS 888, 889 Problems and Practices in School Administration I and II</td>
<td>6</td>
</tr>
<tr>
<td>ECPAS 890, 891 Guided Field Experience in Administration and Supervision – Internship</td>
<td>6</td>
</tr>
<tr>
<td>ECPAS 894, 895 Supervisory Practicum I and II* (Limited and by selection)</td>
<td>3 or 6</td>
</tr>
</tbody>
</table>

Courses in Instructional Administration

ECPAS 880. Fundamentals and Use of Administrative Theory in Education. 3 hr.; 3 cr. Administrative theory and research. Theoretical approaches to the study of organization behavior; the nature of organizations; systems analyses; research concerned with change in systems and groups.

ECPAS 881. Curriculum and Supervision. 3 hr.; 3 cr. An examination of the trends and issues in the school curriculum with emphasis on the development of theoretical bases for the making of curriculum decisions. A critical examination of the literature on supervision in education and related fields. Current practices will be appraised in relation to the teaching/learning process.

ECPAS 883, 884. The Educational Leader and Human Relations I and II. 3 hr.; 3 cr. each course. Study of the variety of supervisory and administrative relationships. Fields of psychology, social psychology, sociology, and education will be drawn upon to develop an understanding of human

*In lieu of one 3-credit, one-semester course.
behavior and methods of working with others. Courses must be taken sequentially.

ECPAS 885. Legal Problems in Public Education: Political and Economic Implications. 3 hr.; 3 cr. Current and historic law in public education. Will inform students of basic legal principles as they affect public schools in general; in particular, students will study such areas as freedom of speech, student rights, search and seizure, torts, teacher rights, religion in the public schools, and constitutional due process.

ECPAS 886. Management of Teaching and Learning for Administrators. 3 hr.; 3 cr. This course will include an analysis of teaching strategies and of the learning patterns of individual students. A review of the research will be followed by practical applications in the classroom. Assessment instruments, observation forms, and counseling techniques designed for the improvement of instruction and staff development will be studied and evaluated. Teaching and learning style models will be emphasized. Applications for future administrators will be covered. Instructional environments, teaching strategies, learning materials, homework patterns, and classroom management techniques will be described and implemented.

ECPAS 887. Computers in School Administration. 3 hr.; 3 cr. An introduction to basic programming plus applications of computers to instruction and in school management.

ECPAS 888, 889. Problems and Practices in School Administration I and II. 3 hr.; 3 cr. each course. Examination of specific and universal problems of school administration. Application of case studies, role playing, and group analysis focused on recurring themes of educational governance at the building and district levels.

ECPAS 890, 891. Guided Field Experience in Administration and Supervision. 3 hr.; 3 cr. each course. Seminar plus 300 hours of fieldwork for each course. (These courses together satisfy the 600 hours of field service required of every candidate for the New York State certificate for School Administrator and Supervisor.)

ECPAS 894, 895. Supervisory Practicum I and II. 3 hr.; 3 cr. each course. Prereq.: ECPAS 883 and 884 and approval of the Adviser and instructor. Advanced courses in supervision for students preparing for school leadership roles. Students will observe, facilitate, consult, and supervise first-year students under close supervision of faculty. Theoretical concepts are used to analyze small group interactions and supervisory conferences. These experiences provide the framework for individual instruction in the leadership of small groups. Students must be pre-advised to take ECPAS 894 or 895. Selection is made on the basis of prior training and background and competence in the course content, and with the approval of the program Adviser.

SPECIAL EDUCATION

Coordinator: Elizabeth J. Erwin

There are three distinct 36-credit Master’s Degree Programs in Special Education designed to prepare graduates to work either in Early Childhood Special Education (Birth – Grade 2), Childhood Special Education (Grades 1–6), or Adolescent Special Education (Grade 7–Age 21). Within each age range of specialization, program graduates are prepared to work with children or youths with a wide range of disabilities from mild to severe. Upon completion of one of the Graduate Programs in Special Education, graduates are eligible for initial/professional or permanent New York State Certification in Special Education within their age/grade level. Each of the Master’s Degree Programs takes 3 years to complete (which includes some summer courses) following a prescribed course of study.

The faculty takes seriously its mission of preparing quality teachers to empower children and youths with disabilities to be independent, productive, and fully included members of their schools and society. The purpose of the Programs in Special Education is to provide graduate students the knowledge, skills, and qualities to teach children and youths with disabilities, including those with significant disabilities, in a variety of settings with a strong focus on age-appropriate general education environments. The New York State Pedagogical Core requirements for teachers of special education have been embedded throughout all aspects of the curriculum and programs.

Faculty

Erwin, Elizabeth J., Coordinator, Assistant Professor, Ed.D. 1992, Teachers College, Columbia University: early childhood special education

Brown, Freda A., Professor, Ph.D. 1981, University of Kansas: individuals with severe disabilities

Michaels, Craig, Associate Professor, Ph.D. 1993, New York University: special education, educational psychology

Truesdell, Lee Ann, Associate Professor, Ph.D. 1978, Florida State University: special education, curriculum, instruction, supervision

Matriculation Requirements for M.S. Ed. in Special Education

Applicants to the Graduate Programs in Special Education are required to:

• Hold an initial/provisional certificate in general education in the age/school range of the special education program to which they are applying (Birth to Grade 2; Grades 1 to 6; Grades 7 to 12).

• Have a 3.0 GPA. On a case-by-case basis, the program has the right to make a probational acceptance of a student who does not meet the required GPA; any student who has a probational acceptance will be mentored and monitored carefully during the first academic year. Assuming that the student maintains a 3.0 GPA or better during the first year, his/her acceptance status would no longer be considered probational.

• Write a clearly articulated and well-written essay demonstrating the reasons why the applicant has chosen to pursue special education as a profession.

• Provide three letters of recommendation that demonstrate the applicant’s abilities, qualities, and promise as a graduate student in the field of special education.

• Indicate the nature and type of work experience.

Maintenance Requirements

All students who are matriculated within the Graduate Programs in Special Education are required to maintain a 3.0 GPA. The faculty is committed to maximizing the potential success of each student. Any student who achieves a grade in any course lower than B− will meet with an Adviser. A student is required to have a 3.0 GPA to register for an internship course (ECPSE 715, 725.1, 725.3, 725.4, 735, 745) and for research courses (ECPSE 746, 748). If a student achieves less than a B− in an internship course, he/she must meet with an Adviser to determine conditions for continuing in the program. The student and the Adviser must determine conditions for rectifying deficiencies noted within the internship if the student is to continue in the program. If the student and Adviser deem that the deficiencies can be rectified, an individualized plan including guided internship experience may be drawn up and the student will be required to register for ECPSE 754, Supervised Internship in Special Education.

Students are required to complete a portfolio in year 2 that demonstrates individual mastery and application of skills across the Pedagogical Core components delineated in New York State’s regulations for teacher certification in special education: a) historical, social, and legal foundations of special education, employment and independence for individuals with disabilities; b) characteristics of learners with disabili-
Courses in the Graduate Programs in Special Education

<table>
<thead>
<tr>
<th>Early Childhood Special Education</th>
<th>Childhood Special Education</th>
<th>Adolescent Special Education</th>
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<tbody>
<tr>
<td>ECPSE 700. Foundations of Special Education</td>
<td>ECPSE 700. Foundations of Special Education</td>
<td>ECPSE 700. Foundations of Special Education</td>
</tr>
<tr>
<td>ECPSE 725.3. Internship in Severe Disabilities: Early Childhood Special Education</td>
<td>ECPSE 725.1. Internship in Severe Disabilities: Childhood Special Education</td>
<td>ECPSE 725.4. Internship in Severe Disabilities: Adolescent Special Education</td>
</tr>
<tr>
<td>ECPSE 730. Principles and Practices in Early Childhood Special Education</td>
<td>ECPSE 710. Instruction for Childhood Special Education</td>
<td>ECPSE 740. Instruction for Adolescent Special Education</td>
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<td>ECPSE 735. Internship in Early Childhood Special Education</td>
<td>ECPSE 715. Internship in Childhood Special Education</td>
<td>ECPSE 745. Internship in Adolescent Special Education</td>
</tr>
<tr>
<td>ECPSE 746. Research in Special Education</td>
<td>ECPSE 746. Research in Special Education</td>
<td>ECPSE 746. Research in Special Education</td>
</tr>
<tr>
<td>ECPSE 748. Advanced Research in Special Education</td>
<td>ECPSE 748. Advanced Research in Special Education</td>
<td>ECPSE 748. Advanced Research in Special Education</td>
</tr>
</tbody>
</table>

Additionally, students will be required to select one of the pedagogical core component areas from their portfolios to present orally to a Special Education faculty committee. Should a student fail to complete the portfolio, experience significant difficulty through the process, or receive poor reviews based on the oral presentation, he/she will again be referred to the Special Education faculty and not be allowed to register for research courses until these issues are addressed. In these situations, the student and the Adviser must determine conditions for rectifying deficiencies noted within the portfolio and establish an individualized plan for addressing these deficiencies.

**Graduation Requirements**

Students are required to achieve a 3.0 GPA and complete the 36-credit course sequence to graduate. The research project is the culminating activity of the special education programs. The thesis is completed as part of the Advanced Seminar in Research (ECPSE 748). All students will work closely with a faculty member to complete this project. Should a student ultimately fail to complete the project successfully, program completion and graduation will be denied.

**Courses in Special Education**

ECPSE 700. Foundations of Special Education, 3 hr. plus scheduled conf.; 3 cr. Education and psychology in Special Education are stressed with emphasis on developing a broad background of knowledge about students with various disabilities and strategies for creating access to the general education curriculum. The historical and sociological treatment of people with disabilities, special education law and programs, advocacy and collaboration, and building classroom communities that support the full diversity of learners are also addressed. Twenty hours of fieldwork
focusing on special education are required.

**ECPSE 708. Collaboration and Transdisciplinary Teaching.** 3 hr.; 3 cr. Prereq.: ECPSE 700; coreq.: ECPSE 710, 730 or 740. Study in theory, research, and exemplary practice in collaborative and transdisciplinary teaching providing the foundation for creating effective learning environments for individuals with disabilities. This course will focus on effective collaborative practices within an inclusive setting which are cross-disciplinary and cross-cultural. At least 20 hours of field experience in collaborating with another teacher and/or related service professional is required.

**ECPSE 710. Instruction for Childhood Special Education.** 3 hr.; 3 cr. Prereq.: ECPSE 700, 722; coreq.: ECPSE 708. Theory and research about children with learning and behavior disabilities and exemplary practices in informal assessment, curriculum design and adaptations, effective instruction, supportive learning environments, and instructional technological. Field experience of at least 15 hours involves students in assessment, curriculum adaptations, and teaching a small group of children who exhibit learning problems. Reflection on practice involves analysis of learning and behavior change.

**ECPSE 711. Curriculum Adaptations and Teaching Strategies for Childhood Special Education.** 3 hr.; plus scheduled conf.; 3 cr. Prereq.: ECPSE 710; coreq.: ECPSE 715. Teaching and learning strategies are taught within the context of the general education curriculum to individualize instruction and maximize grade-level content mastery for all learners. Students adapt and teach a curriculum unit grounded in the New York State Learning Standards designed to meet the individual needs of students with disabilities by modifying instruction, employing metacognitive, task-specific learning strategies, and utilizing instructional technology. Field experience of at least 15 hours involves students in adapting a thematic unit for students with learning difficulties and embedding learning strategies within unit lessons.

**ECPSE 715. Internship in Childhood Special Education.** 3 hr. plus participation; 3 cr. Prereq.: ECPSE 700, 708, 722, 710; coreq.: ECPSE 711. Supervised teaching of children with disabilities within one of the following groups: (a) grades 1 through 3, or (b) grades 4 through 6. Students who have completed their first internship, ECPSE 725.1, with children in one of the above age groups, will teach children with disabilities within the other age group for this course. This internship, which involves observation and teaching of children with disabilities and their families on a full-time basis for one semester, can be completed at the student’s place of employment upon approval of the faculty. Students will develop a collaborative partnership within the school to create innovative and inclusive ways of educating children with disabilities. Students will collaboratively plan, design, and implement IEPs and instructional programs and learning environments that use assistive technology. Students will demonstrate effective teaching of children with diverse abilities and cultures.

**ECPSE 720. Trends and Issues in the Education of Learners with Severe Disabilities.** 3 hr.; 3 cr. Prereq.: ECPSE 700. This course is designed to acquaint students with the characteristics, assessment strategies, methods of teaching, team approaches, and current research and life span issues related to the education of learners with severe and multiple disabilities. Emphasis is placed on research-based methodology, language development, and teaching skills that increase self-determination and quality of life for students and their families.

**ECPSE 721.1. Curriculum in Severe Disabilities: Childhood Special Education.** 3 hr.; 3 cr. Prereq.: ECPSE 700, 720; coreq.: ECPSE 725.1. This course is designed to offer an advanced study of curriculum development for children with severe disabilities, Grades 1–6. The course explores the curriculum development process, including IEP and program development and evaluation. Field-based assignments are implemented within the context of the summer internship (ECPSE 725.1).

**ECPSE 721.3. Curriculum in Severe Disabilities: Early Childhood Special Education.** 3 hr.; 3 cr. Prereq.: ECPSE 700, 720; coreq.: ECPSE 725.3. This course is designed to offer an advanced study of curriculum development for young children with severe disabilities. The course explores the curriculum development process, including IEP/IFSP and program development and evaluation. Field-based assignments are implemented within the context of the summer internship (ECPSE 725.3).

**ECPSE 721.4. Curriculum in Severe Disabilities: Adolescent Special Education.** 3 hr. plus participation in field experiences; 3 cr. Prereq.: ECPSE 700, 720; coreq.: ECPSE 725.4. This course is designed to offer an advanced study of curriculum development for adolescents with severe disabilities, grade 8 through age 21. The course explores the curriculum development process, including IEP, transition goal-setting, person-centered planning, quality of life issues/community participation, program development and evaluation. Field-based assignments are implemented with the context of the summer internship (ECPSE 725.4).

**ECPSE 722. Applied Behavior Analysis and Positive Behavior Supports.** 3 hr.; 3 cr. Prereq.: ECPSE 700. Students will learn and examine environmental influences on student behavior. Additionally, students will learn about assessment of behavior problems, various educative and positive behavioral strategies, and the use of single subject designs to evaluate behavior change in applied settings. Field experiences of about 5 hours involve students in measurement and analysis of student behavior.

**ECPSE 725.1. Internship in Severe Disabilities: Childhood Special Education.** 3 hr. plus participation; 3 cr. Prereq.: ECPSE 700, 722, 720; coreq.: ECPSE 721.1. Supervised teaching of children with severe disabilities in an intensive six-week summer session with placement in a childhood setting. Placement will focus on an age group different from the children in ECPSE 715. Focus will be on exemplary practices, with an emphasis on language and communication, increasing independence, and promoting positive interaction skills.

**ECPSE 725.3. Internship in Severe Disabilities: Early Childhood Special Education.** 3 hr. plus participation; 3 cr. Prereq.: ECPSE 700, 722, 720; coreq.: ECPSE 721.3. Supervised teaching of young children with severe disabilities in an intensive six-week summer session placement in an early childhood setting. Placement will focus on an age-group different from the children in ECPSE 735. Focus will be on exemplary instructional practices, with an emphasis on language and communication, increasing independence, and promoting positive interaction skills.

**ECPSE 725.4. Internship in Severe Disabilities: Adolescent Special Education.** 3 hr. plus participation in internship; 3 cr. Prereq.: ECPSE 700, 722, 740; coreq.: ECPSE 721.4. Supervised teaching of adolescents with disabilities within one of the following groups: (a) grades 7 through 12, or (b) ages 18–21 in an intensive six-week summer session placement in an adolescent/young adult educational setting. Focus will be on exemplary instructional practices, with an emphasis on self-determination, transition planning and support, person-centered planning, and full community participation in age-appropriate ways.

**ECPSE 730. Principles and Practices in Early Childhood Special Education.** 3 hr.; 3 cr. Prereq.: ECPSE 700 and 722. This course, which is grounded in a social justice and human rights framework, will explore the education of young children with disabilities and their families. Students will be introduced to knowledge and skills needed to teach in early childhood inclusive environments. Emphasis will be on creating democratic classrooms and school communities for diverse learners. Fifteen hours of
field experience will include observation and analysis of young children and school environments.

**ECPSE 731. Advanced Curriculum and Methods in Early Childhood Special Education.** 3 hr.; 3 cr. Prereq.: ECPSE 730, 708; coreq.: ECPSE 735. This course is designed to provide students with research-based and innovative methods for educating young learners with diverse abilities and backgrounds within inclusive environments. Using family-centered principles, students will learn how to collaboratively plan, implement, and evaluate individualized educational plans and how to adapt instruction, materials, environments, and curricula for diverse learners. Twenty hours of fieldwork is required that includes observation and evaluation of a classroom environment.

**ECPSE 732. Building Partnerships with Families of Children with Disabilities.** 3 hr.; 3 cr. Prereq.: ECPSE 700. This course is designed to enhance students’ skills, experience, and knowledge in understanding the rationale for and practices in promoting meaningful family-professional partnerships. Social, cultural, and community influences are deeply embedded in the course content. Field experience involves spending 10 hours with a family who has a child with a disability.

**ECPSE 735. Internship in Early Childhood Special Education.** 3 hr. plus participation; 3 cr. Prereq.: ECPSE 700, 730, 732, 720, 721.3, 725.5; coreq.: ECPSE 731. Supervised teaching of young children with disabilities within one of the following groups: (a) infant/toddler, (b) preschool, or (c) kindergarten or early elementary age. Students who have completed their first internship, ECPSE 725.3, with children in one of the above age ranges, will teach children with disabilities within a different age group for this course. This internship, which involves observation and teaching of young children with disabilities and their families on a full-time basis for one semester, may be completed in a student’s place of employment upon approval of the faculty. Students will initiate and develop a collaborative partnership with the school to create innovative and inclusive ways of educating young children with disabilities. Students will collaboratively plan, design, and implement IEPs or IFSPs and instructional programs and learning environments using assistive technology. Students will demonstrate effective teaching of young children with diverse abilities and cultures.

**ECPSE 740. Instruction for Adolescent Special Education.** 3 hr. plus fieldwork; 3 cr. Prereq.: ECPSE 700, 722; coreq.: ECPSE 708. Theory and research about young adults with disabilities and exemplary practices in informal assessment, curriculum design and adaptation, effective instruction, person-centered planning, self-determination, supportive learning environments, and instructional technology. Field experiences of at least 15 hours involve students in assessment, curriculum adaptation, planning, and implementing an intervention to assist a young adult to achieve his/her goals. Reflection on practice involves an analysis of self-determination, empowerment, learning, community participation, and behavior change.

**ECPSE 741. Curriculum Adaptations, Teaching Strategies and Transition Preparation for Adolescent Special Education.** 3 hr. with field experiences, plus scheduled conf.; 3 cr. Prereq.: ECPSE 740; coreq.: ECPSE 715. Teaching and learning strategies are taught within the context of the general education curriculum and age-appropriate community environments to individualize instruction, prepare students for the transition from school to adult life and maximize grade-level content mastery for all learners. Students plan and teach a curriculum unit grounded in the New York State Learning Standards designed to meet the individual needs of students with disabilities by modifying and adapting instruction, employing metacognitive, task-specific learning strategies, and utilizing instructional technology. Field experiences of at least 15 hours involve students in adapting a thematic unit and exploring participation in age-appropriate community environments for students with disabilities.

**ECPSE 745. Internship in Adolescent Special Education.** 3 hr. plus participation; 3 cr. Prereq.: ECPSE 700, 708, 722, 730; coreq.: 731. Supervised teaching of adolescents with disabilities within one of the following groups: (a) grades 7 through 12, or (b) ages 18–21. Students who have completed their first internship, ECPSE 725.4 with adolescents/young adults in one of the above age groups, will teach adolescents with disabilities within the other age group for this course. This internship is a full-time commitment for one semester and may be completed at the student’s place of employment upon approval by the faculty. Students will develop a collaborative partnership within the school, the community, and/or adult service agencies to plan, design, and implement IEPs, transition plans, and content area strategic instructional programs that use assistive technology. Students will demonstrate effective teaching, planning, and supporting the self-determination of adolescents/young adults with diverse abilities and cultures.

**ECPSE 746. Research in Special Education.** 3 hr. plus scheduled conf.; 3 cr. With permission of Adviser. Study, understanding, and evaluation of basic research design and methodology in special education and interpreting research results for classroom instruction. Students will prepare a literature review and design research methodology that will be implemented in a research study in ECPSE 748. Research topics will be referenced to classroom needs as individually determined by each student’s educational placement and their area of interest.

**ECPSE 748. Advanced Research in Special Education.** 3 hr. plus conf.; 3 cr. Prereq.: ECPSE 746. The continued study, understanding, and evaluation of research design and methodology in special education. Each student will implement an independent field-based project based on the literature reviewed and methodology developed in ECPSE 746. Research topics are based on needs of students’ classrooms and their research interests. A research paper is required. This paper serves as the thesis.

**ECPSE 754. Supervised Internship in Special Education.** 3 hr. plus participation, 1 seminar hr.; 3 cr. Prereq.: 715, 725, 735, or 745. Students who receive a grade of B– or lower in ECPSE 715, 725, 735, or 745 are required to register for this course. Additional supervised experience in teaching individuals with disabilities in the same age/grade level as the prior internship will be provided. Seminars will supplement the internship, as well as individual meetings with the instructor. Course assignments will be determined by the individual needs and experiences of the student.

**COUNSELOR EDUCATION**

Coordinator: John Pellitteri

The Master of Science in Education degree in Counseling is a 60-credit program that prepares students to serve as professional psychological counselors in schools and agencies. Students may choose the School Counseling Track (which can include specializations in bilingual/multicultural counseling and/or college counseling) or the Mental Health Counseling Track (which can include a specialization in substance abuse counseling). The School Counseling Track leads to permanent New York State Certification in School Counseling. The multicultural specialization leads to the Bilingual Extension of the state certification in School Counseling (students must also take a competency exam in the target language). The alcohol/substance specialization leads to New York State certification as a Credentialed Alcoholism & Substance Abuse Counselor (CASAC).

The program can be completed in 2 years full-time, which requires that students attend daytime classes or in 3 to 4 years part-time, which allows for evening classes. All candidates for the Master’s degree must
take the 24-credit sequence of core counseling courses, 18 credits of required advanced counseling courses, 6–12 credits of supervised fieldwork, and 6–12 credits of electives. Full-time students take 12 credits (600 hours) of fieldwork and 2 elective courses. Part-time students take 6 credits (300 hours) of fieldwork and 4 elective courses. Up to 12 credits of prior graduate work in relevant areas may be accepted toward electives.

The core and advanced courses must be taken in sequential order. Lecture courses and the related experiential lab courses are offered in modules and must be taken concurrently. This allows for the development of knowledge and skills in a logical progression from basic competencies to more complex applications. It is necessary for the student to not only learn psychological concepts but to be able to apply such knowledge in various contexts. Students must be able to demonstrate the effective application of individual and group counseling skills, as well as assessment, research, and evaluation skills. Students are expected to develop critical thinking and insight, to take multiple perspectives, and to synthesize knowledge from various learning experiences in the program. Both personal maturity and academic sophistication are required.

**Faculty**

Pelletteri, John, Coordinator, Assistant Professor, Ph.D. 1999, New York University: counseling, psychology, emotional intelligence, psychodiagnostics, music therapy

Howell, Lynn, Assistant Professor, Ph.D. 1999, Idaho State University: mental health counseling, group counseling, and human growth and development

Schwartz, Lester J., School Counseling Adviser, Professor Emeritus, Ph.D. 1959, Teachers College, Columbia University: counseling psychology, career development

Vázquez, Jesse M., Bilingual Counseling Adviser, Professor, Ph.D. 1975, New York University: cross-cultural counseling, individual and group psychotherapy

Woods, Patricia, Adjunct Associate Professor, Ed.D. 1990, Teachers College, Columbia University: coordinator for alcohol and substance abuse specialization

**PROGRAM FOR THE DEGREE OF MASTER OF SCIENCE IN EDUCATION IN COUNSELOR EDUCATION**

**Requirements for Admission**

1. Completion of a Bachelor’s Degree with an overall GPA of 3.0.
2. Satisfactory completion of the following 5 prerequisite courses: Introduction to psychology, Psychology of child or adolescent development, Abnormal psychology, Statistics, Sociology, or Anthropology.
4. Satisfactory standards in speech, written English, health, character, and personality.
5. Satisfactory rating on admissions tests, interviews, and references.

In the 500-word essay on the admissions application, please describe your motivations for entering the counseling profession and your expectations of graduate level study.

**Requirements for Completion of the Master’s Degree**

1. Satisfactory completion of the 60-credit sequence.
2. Demonstration of the professional knowledge and competencies associated with professional counseling.
3. Satisfactory completion of at least 300-600 hours of supervised fieldwork in approved settings.
4. Satisfactory completion of a final research project.

**PROGRAM TRACKS & SPECIALIZATION**

**School Counseling Track**

The graduate program is approved by the New York State Education Department and leads to permanent certification as a school counselor upon completion of the 60-credit M.S.Ed. degree and 2 years of post-master’s employment in a school setting. Students may obtain a provisional state certification after the completion of 30 credits. The provisional certification application must be handled by the student directly with the state. The basic program requirements for all students in the school counseling track are:

- a) ECPCE 729 Fieldwork in a School, for at least 2 credits (100 hours) in a K–12 school setting.
- b) ECPCE 806 Organization, Administration, and Evaluation of School Counseling Services.
- c) Completion of three workshops: child abuse reporting, substance abuse issues, and school violence. The workshop sessions usually last 2–3 hours and are offered periodically throughout the year by the College. Contact the Office of Continuing Education for information about the workshops. One of the ECPCE 730–733 electives can substitute for the substance abuse workshop requirement.

**Counseling in a College Setting**

Students who wish to emphasize mental health counseling without the specialization in substance abuse counseling may design a course of study with Dr. Howell. Such a specialization must include at least one course in mental health counseling (ECPCE 818), one in family counseling (ECPCE 834 or 731), and one in psychopathology (ECPSP 862, PSY 755, or equivalent).

**Substance Abuse Specialization**

a) ECPCE 803 Multicultural Issues (part of required courses sequence)
b) Completion of 300 fieldwork hours

**Mental Health Counseling Track**

The course sequence for the specialization in Substance Abuse Counseling is approved by the New York State Education Department and fulfills the educational requirements leading to a Credentialed Alcoholism and Substance Abuse Counselor (CASAC).

After completion of the courses and M.S.Ed. degree, students must obtain additional hours of work experience in the substance abuse field in order to get the state certification. Due to the two-year rotation of the four substance abuse courses, students may need to alter some of their advanced required courses to accommodate the specialization’s requirements. Requirements for Alcohol and Substance Abuse Specialization are:

- a) Completion of the course sequence: ECPCE 730, 731, 732, 733, 800 & 807.
- b) Final research project must be in a related area of substance abuse counseling. Approval of the final project is in conjunction with Dr. Woods and the instructor of the ECPCE 807 course.

Students who wish to emphasize mental health counseling without the specialization in substance abuse counseling may design a course of study with Dr. Howell. Such a specialization must include at least one course in mental health counseling (ECPCE 818), one in family counseling (ECPCE 834 or 731), and one in psychopathology (ECPSP 862, PSY 755, or equivalent).

**Note:** ECPCE 818 may be taken in place of ECPCE 806 in the course sequence.

It is important to emphasize that New York State does not currently license master’s level mental health professionals and that this specialization (without the substance abuse sequence) does not lead to state certification.
### Core Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECPCE 700</td>
<td>Theory, Philosophy, and History of Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 701</td>
<td>Practicum in Self-Awareness Training</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 702</td>
<td>Psychosocial Development and Personality Theory</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 704</td>
<td>Theories and Techniques of Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 705</td>
<td>Seminar Practicum in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 706</td>
<td>Study of Group Dynamics, Leadership, and Social Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 707</td>
<td>Seminar Practicum in Psychological Counseling in Groups</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 708</td>
<td>Practicum in Self-Awareness Training</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ECPCE 709</td>
<td>Fieldwork</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ECPCE 710</td>
<td>Study of Group Dynamics, Leadership, and Social Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 711</td>
<td>Seminar Practicum in Psychological Counseling in Groups</td>
<td>3 cr.</td>
</tr>
<tr>
<td>ECPCE 712</td>
<td>Fieldwork I</td>
<td>2–3 cr.</td>
</tr>
<tr>
<td>ECPCE 713</td>
<td>Fieldwork II</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ECPCE 714</td>
<td>Fieldwork III</td>
<td>2 cr.</td>
</tr>
<tr>
<td>ECPCE 729</td>
<td>Fieldwork in a School</td>
<td>2 cr.</td>
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</tbody>
</table>

### Counselor Education Program Sequence

#### Full-Time Two-Year Sequence

<table>
<thead>
<tr>
<th>Semester (Fall)</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>Theory, Philosophy, and History of Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>701</td>
<td>Practicum in Self-Awareness Training</td>
<td>3 cr.</td>
</tr>
<tr>
<td>702</td>
<td>Psychosocial Development and Personality Theory</td>
<td>3 cr.</td>
</tr>
<tr>
<td>703</td>
<td>Seminar Practicum in Interview Techniques and Human Service Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>704</td>
<td>Theories and Techniques of Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>705</td>
<td>Seminar Practicum in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>706</td>
<td>Study of Group Dynamics, Leadership, and Social Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>707</td>
<td>Seminar Practicum in Psychological Counseling in Groups</td>
<td>3 cr.</td>
</tr>
<tr>
<td>729</td>
<td>Fieldwork in a School</td>
<td>2 cr.</td>
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</tbody>
</table>

#### Second Semester (Spring)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>800 Vocational Psychology &amp; Career Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>804 Techniques of Educational and Psychological Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>802 Special Problems in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>821 Fieldwork in School or Mental Health V</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Elective</td>
<td>3 cr.</td>
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</table>

#### Third Semester (Fall)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>806 Organization, Administration, and Evaluation of Counseling Services</td>
<td>3 cr.</td>
</tr>
<tr>
<td>807 Seminar Practicum in Research in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>803 Seminar in Multicultural Issues in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>821 Fieldwork in School or Mental Health V</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Elective</td>
<td>3 cr.</td>
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</tbody>
</table>

The 6 credits of electives can be taken during the summer or in the third and fourth semesters. Students taking the Mental Health Track substance abuse specialization must complete the four-course sequence: ECPCE 730, 731, 732, and 733, which is offered on a rotating two-year basis. One substance abuse course is added to each semester in the first year and the two electives in the second year are used to complete the four-course concentration. ECPCE 806 is required for the School Counseling Track but not the substance abuse specialization. Full-time students wishing to take both the School Counseling Track and the substance abuse specialization can do so with the addition of two more electives for a total of 66 credits.

#### Part-Time Three-Year Sequence

<table>
<thead>
<tr>
<th>Semester (Fall)</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>Theory, Philosophy, and History of Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>701</td>
<td>Practicum in Self-Awareness Training</td>
<td>3 cr.</td>
</tr>
<tr>
<td>703</td>
<td>Seminar Practicum in Interview Techniques and Human Service Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>704</td>
<td>Theories and Techniques of Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>705</td>
<td>Seminar Practicum in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>706</td>
<td>Study of Group Dynamics, Leadership, and Social Systems</td>
<td>3 cr.</td>
</tr>
<tr>
<td>707</td>
<td>Seminar Practicum in Psychological Counseling in Groups</td>
<td>3 cr.</td>
</tr>
<tr>
<td>729</td>
<td>Fieldwork in a School</td>
<td>2 cr.</td>
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</table>

#### Fourth Semester (Spring)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>806 Organization, Administration, and Evaluation of Counseling Services</td>
<td>3 cr.</td>
</tr>
<tr>
<td>807 Seminar Practicum in Research in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>803 Seminar in Multicultural Issues in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>729 Fieldwork in a School</td>
<td>2 cr.</td>
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#### Summer Semester

<table>
<thead>
<tr>
<th>Elective</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>821 Fieldwork in School or Mental Health V</td>
<td>3 cr.</td>
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</table>

#### Fifth Semester (Fall)

<table>
<thead>
<tr>
<th>Course Title</th>
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<tbody>
<tr>
<td>804 Techniques of Educational and Psychological Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>802 Special Problems in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>821 Fieldwork in School or Mental Health V</td>
<td>3 cr.</td>
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#### Sixth Semester (Spring)

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<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>806 Organization, Administration, and Evaluation of Counseling Services</td>
<td>3 cr.</td>
</tr>
<tr>
<td>807 Seminar Practicum in Research in Psychological Counseling</td>
<td>3 cr.</td>
</tr>
<tr>
<td>821 Fieldwork in School or Mental Health V</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

#### Elective

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<tr>
<th>Elective</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>821 Fieldwork in School or Mental Health V</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Four elective courses (12 cr.) can be taken in the summer sessions or in semesters 2, 5, and 6. Additional fieldwork can be taken for one of the 4 electives. Part-time students cannot enroll for more than 11 credits in one semester. Students taking the Mental Health Track substance abuse specialization must use all four electives to complete the 4-course sequence: ECPCE 730, 731, 732, and 733, which is offered on a rotating two-year basis. The course sequence is started in the first semester and completed in semester 4. ECPCE 802 and 803 are taken in semesters 5 and 6. ECPCE 806 is required for the School Counseling Track but not for students taking only the substance abuse specialization who may substitute it for another elective. Part-time students wishing to take both the School Counseling Track and the substance abuse specialization can do so. Students who wish to complete the program in four years instead of three years can develop an adjusted sequence with their Advisers.
semester in schools covering any of grades 1 through 12 under supervision of field clinician and Queens College faculty. Graded on a Pass/Fail basis only.

ECPCE 730. Overview: General Introduction to Alcoholism and Substance Abuse Sequence. 2 hr. plus conf.; 3 cr. This course covers the etiological theories of alcoholism/substance abuse, pharmacology, process of addiction/stages of alcoholism, recovery process, and defense structures. Attention is given to special ethnic populations, treatment approaches, the counseling of individual substance abusers, and professional counselor ethics.

ECPCE 731. Family and Substance Abuse. 2 hr. plus conf.; 3 cr. Prereq.: ECPCE 730 or faculty approval. This course covers the physiological, sociological, and psychological influences of substance abuse and the family. Attention is given to children and adult children of substance abusers and co-dependency in the family. Couples/alcoholism, domestic violence, sexual issues, and divorce are also addressed. Counseling approaches prior to and after abstinence are covered as well as cultural considerations.

ECPCE 732. Specialized Counseling Techniques for the Addictive Population: Individual and Group. 2 hr. plus conf.; 3 cr. Prereq.: ECPCE 730 or faculty approval. This course covers treatment programs and resources, self-help groups, and critical issues in early, middle, and long-term recovery. Attention is given to specialized individual and group counseling techniques, with particular emphasis, based on case material, on the techniques of supervision.

ECPCE 733. Special Issues and Special Populations in Alcoholism/Substance Abuse. 2 hr. plus conf.; 3 cr. Prereq.: ECPCE 730 or faculty approval. This course covers special issues in the treatment of substance abusers, such as spirituality, birth defects, AIDS, and dual diagnosis. Special populations are addressed: adolescents, women, mandated clients, and the homeless. Attention is also given to drug prevention, counselor wellness, and professional counselor ethics.

Following are courses appropriate for the School and Mental Health Specialization of the Master of Science Degree in Education in Counselor Education.

COURSES IN SCHOOL AND MENTAL HEALTH SPECIALIZATIONS

ECPCE 800. Vocational Psychology and Career Education. 2 hr. plus conf.*; 3 cr. Theory and methods of vocational and career counseling including applications to the chemically dependent and other groups with special needs.

COUNSELOR EDUCATION PROGRAM WITH THE BILINGUAL/MULTICULTURAL EXTENSION

This 60-credit program leads to a Master of Science in Education degree in Counselor Education with the Bilingual/Multicultural Extension. The program fulfills the academic requirements for permanent New York State Certification for School Counseling and for the New York City License. The program includes the following course, language, and fieldwork requirements:

1. The student must demonstrate proficiency in a target language (Spanish, Chinese, or other languages). Language competence will be assessed by a qualified Queens College faculty member. English proficiency is assessed as part of the standard admissions process for all applicants through the required written essay, the initial program interview, and the Test of English as a Foreign Language (TOEFL), if necessary.

2. Students must complete ECPCE 803, Seminar in Multicultural Issues in Psychological Counseling, and ECPCE 807, Seminar Practicum in Research in Psychological Counseling. Research projects in ECPCE 807 must focus on issues related to bilingual/multicultural populations in an educational or agency setting.

3. Fieldwork: Students specializing in the Bilingual/Multicultural Extension must complete 300 hours of fieldwork in a school or agency setting serving a bilingual population under supervision of a qualified field supervisor.

SPECIAL AND ELECTIVE COURSE OFFERINGS

ECPCE 818. Special Topics in Counseling. 2 hr. plus conf.; 3 cr. A course with changing content relating to topics of current relevance to the field of counseling.

ECPCE 832. Psychology of Human Sexuality. 2 hr. plus conf.; 3 cr. Psychosexual development, reproduction, sexual responsiveness, and dysfunctions. Theories and methods of sex counseling for different age groups.

ECPCE 834. Advanced Course in Family Education: Parenting Models. 2 hr. plus conf.*; 3 cr. Exploration of models of effective parenting in single, multiple, and blended families.
ENGLISH

Chair: Nancy R. Comley

Director of Graduate Studies: David H. Richter

Dept. Office: Klapper 607, 997-4600

The Graduate English program of Queens College is staffed by faculty devoted to critical research and creative publication. Its faculty have recently been honored with grants and awards from the Fund for the Improvement of Post-Secondary Education, the Guggenheim Foundation, the National Endowment for the Humanities, the Rockefeller Foundation at Bellagio, and the Woodrow Wilson International Center for Scholars. Current books by Queens English faculty include Fred Buell’s National Culture and the New Global System, Kimiko Hahn’s Mosquito and Ant, Steven Kruger’s AIDS Narratives, Anthony O’Brien’s Against Normalization, and David Richter’s The Progress of Romance.

The graduate program provides faculty, library, courses, and facilities for advanced study in the following disciplines:

1. Literary, rhetorical, and linguistic theory
2. Textual criticism, descriptive and enumerative bibliography, techniques of scholarship
3. History of English and American literature
4. History and analysis of the English language
5. Practical analysis, interpretation, and evaluation of works of literature
6. Creative writing

The program enables students to bring their vocabulary, techniques, and judgment in these disciplines to the point of mastery: that is, to a point at which they feel secure in and capable of independent pursuit of knowledge among the primary and secondary materials of the field. In the degree structure of the City University, the Queens College program leads to the M.A. degree in English. The first 30 units of course work may be counted toward the Ph.D. in the City University. Such courses must be taken while enrolled in the M.A. program.

The Queens program provides training in creative writing. This course of studies is calculated from the date of the first graduate course for which credit is granted, whether it was taken at Queens or at another institution.

Faculty

Comley, Nancy R., Chair, Professor, Ph.D. 1977, Brown University: theory of rhetoric and composition, semiotics
Richter, David H., Director of Graduate Studies, Professor, Ph.D. 1971, University of Chicago: eighteenth-century studies, theory of fiction, literary criticism, modern fiction
Allen, Jeffery R., Assistant Professor, Ph.D. 1992, University of Illinois, Chicago: creative writing
Bowen, Barbara E., Associate Professor, Ph.D. 1986, Yale University: Renaissance literature, Afro-American literature
Buell, Frederick H., Professor, Ph.D. 1970, Cornell University: twentieth-century literature, creative writing (poetry)
Burger, Glenn, Associate Professor, Ph.D. 1981, Oxford University: Medieval Literature and culture, gender theory
Cooley, Nicole R., Assistant Professor, Ph.D. 1996, Emory University: fiction writing, poetry writing, 20th-Century American literature
D’Avanzo, Mario L., Professor, Ph.D. 1963, Brown University: English romanticism, American transcendentalism, American Renaissance
Dickstein, Morris, Distinguished Professor, Ph.D. 1967, Yale University: Romantic poetry, D. H. Lawrence, contemporary literature (especially fiction)
Epstein, Edmund M., Professor, Ph.D. 1967, Columbia University: modern British literature, linguistics, and stylistics
Frosch, Thomas R., Professor, Ph.D. 1968, Yale University: Romanticism
Green, William, Professor, Ph.D. 1959, Columbia University: Shakespeare, Renaissance drama, modern British and American drama
Gross, Beverly, Associate Professor, Ph.D. 1966, University of Chicago: twelfth-century novel, theory of fiction
Hahn, Kimiko, Associate Professor, M.A. 1984, Columbia University: poetry, Asian writing
Hintz, Carrie, Assistant Professor, Ph.D. 1998, University of Toronto: British literature 1600–1800, utopian studies, literary theory
Kaplan, Fred, Distinguished Professor, Ph.D. 1966, Columbia University: Victorian literature, Romantic literature, Dickens, Carlyle, Henry James
Kazanjian, David, Assistant Professor, Ph.D. 1997, University of California at Berkeley: American literature 1700–1900, postcolonial theory, critical theory
Kier, Kathleen E., Associate Professor, Ph.D. 1980, Columbia University: American literature
Krueger, Steven F., Professor, Ph.D. 1988, Stanford University: late Medieval poetry and culture
McCoy, Richard C., Professor, Ph.D. 1975, University of California at Berkeley: Renaissance literature, literature and society, origins of the novel
McKenna, Catherine, Professor, Ph.D. 1976, Harvard University: Celtic languages and literature
Molesworth, Charles H., Professor, Ph.D. 1968, State University of New York at Buffalo: modern and contemporary poetry, Milton, seventeenth-century English poetry
Peritz, Janice, Associate Professor, Ph.D. 1978, Stanford University: writing theory and practice, contemporary critical theory, English literature 1750–1850
Raben, Estelle M., Assistant Professor Emerita, Ph.D. 1983, St. John’s University: modern drama, literature, and science
Sargent, Michael G., Professor, Ph.D. 1979, University of Toronto: Medieval studies
Schaller, Talia, Assistant Professor, Ph.D. 1996, Cornell: 19th-Century British literature, British modernism, cultural studies
Schechter, Harold G., Professor, Ph.D. 1975, State University of New York at Buffalo: American literature, popular culture
Schotter, Richard D., Professor, Ph.D. 1970, Columbia University: playwriting, modern British, American, and Continental drama
Stone, Donald D., Professor, Ph.D. 1968, Harvard University: Victorian literature, history of the novel
Summerfield, Judith, Professor, Ph.D. 1986, New York University: semiotics and composition
Tucker, Amy E., Associate Professor, Ph.D. 1979, New York University: American literature
Tytell, John, Professor, Ph.D. 1968, New York University: modern literature
Weidman, Bette S., Associate Professor, Ph.D. 1968, Columbia University: nineteenth-century American literature, American studies
Weir, John P., Assistant Professor, M.F.A. 1988, Columbia University: twentieth-century fiction, creative writing
Whatley, E. Gordon, Professor, Ph.D. 1973, Harvard University: Old and Middle English literature, Medieval hagiography
Zimmerman, Susan, Associate Professor, Ph.D. 1975, University of Maryland: Renaissance drama
Zimroth, Evan, Professor, Ph.D. 1972, Columbia University: poetry, creative writing
master of arts degree program

requirements for matriculation

this list is in addition to the general college requirements.

the literature sequence

1. an average grade of B in all undergraduate work and in all English courses.
2. a minimum of 24 undergraduate credits in English or American literature or creative writing; at the discretion of the department, fewer credits may be acceptable for full matriculation.
3. three satisfactory letters of recommendation from creative writing instructors or recognized writers.
4. students whose first language is not English and who were educated in a country where English is not the official language are required to take the Test of English as a Foreign Language (TOEFL). a score of 600 or better is recommended for students to be able to do advanced work in English.
5. evidence of a knowledge of at least one foreign language acceptable to the department.

the creative writing sequence

applicants must meet the requirements of the regular M.A. program in English, with the following modifications:
1. at least one undergraduate creative writing course with a grade of B or better.
2. submission and acceptance by the department of a substantial manuscript of original creative writing, before or when the application is sent.
3. at least two of the requisite three letters of recommendation from creative writing instructors or recognized writers familiar with the applicant’s work.

requirements for the master of arts degree

the literature sequence

the student must:
1. take a minimum of 30 credits in English (which may include certain related courses, with the permission of the department) with an average grade of B or above. this program must include a graduate course in methodology; a course in Old English, Middle English, or the English language; and a graduate course in literary criticism – unless the student has already had an equivalent course as an undergraduate. students will not receive credit for more than four courses on the 600 level for the M.A. degree, and the CUNY Doctoral Program in English will not accept more than two.
2. pass a reading exam in French, German, Italian, Russian, Spanish, or a classical language. a student may also satisfy the language requirement by obtaining a grade of B– or better in an undergraduate or general Studies course at Queens that requires extensive reading of literature in one of these languages, or by obtaining a grade of B– or better in a similar graduate course at Queens; in the latter case, the student will receive three credits toward the degree.
3. write a satisfactory thesis on an approved subject in English or American literature or the English language. the thesis may not be undertaken until the candidate has passed one or more courses on the 700 level with a grade of at least B. a student may also satisfy the thesis requirement by submitting three extended documented papers completed in courses. these must be of at least 4,500 words; must be in fields not closely related; and must be accompanied by certificates from the instructors for whom they were written, indicating that the papers are adequate both in form and content to be substituted for the thesis. the student must indicate to the instructor by the fifth week of classes an intention to prepare a term paper for eventual submission to meet this requirement. (thesis credit cannot be granted for course papers retroactively.)
4. pass an oral examination in the field of the candidate’s thesis (not a defense of the thesis) and related areas, the limits to be determined on an individual basis by the thesis director and the director of graduate studies. a student who chooses to submit three papers in place of a thesis will be given an oral examination in three fields approved in advance by the director of graduate studies and suggested by the topics of the papers; one must fall before 1800. students who fail are permitted to retake the examination once only.

the creative writing sequence

candidates must meet the requirements of the regular M.A. program in English with the following modifications:
1. in place of the course in Literary Criticism, students may elect English 760, 761, or 762. the course in methodology will not be required.
2. of the required minimum of 30 credits in English, the candidate’s program will normally include 12 credits of writing workshops in one or two genres. these, plus the Advanced Writing Project (Thesis – see below), will total 15 credits in creative writing. the remaining 15 credits will be taken in English and American literature, including courses which are required as in 1) under the literature sequence above.
3. the Advanced Writing Project (Thesis) will be a substantial and publishable manuscript of poems, a novel, a collection of novellas or short stories, a group of short plays, or a full-length play.
4. there will be no oral examination.

procedures

inquiries concerning admission, course selection, thesis preparation, assistantships and fellowships, transfer credits, and other matters pertaining to the program should be addressed to the director of graduate studies.

relation to the city university Ph.D. program

1. the first 30 graduate credits in English at Queens College may be counted toward the Ph.D. in English literature in the City University, except that no more than six credits in courses on the 600 level may be so counted. the University doctoral program in English is described in the Bulletin of the Graduate School of the City University of New York.
2. candidates who expect to proceed to the Ph.D. in the City University should apply for admission directly to the Ph.D. program instead of to Queens. inquiries should be addressed to the Executive Officer of the Ph.D. Program, 365 Fifth Avenue, New York, NY 10016-4309.

program for the master of science in education degree

requirements for matriculation

the following are additions to the general requirements:

a cumulative index and English index of at least B, as well as a B index in education are required for matriculated status. students who do not meet the above requirements may be permitted to enter as probationary matriculants. probationary status will be removed when the first 12 credits of approved course work have been completed with a minimum average of B.

requirements for the degree

1. candidates in this program have two advisers, one in the Department of Education and one in the Department of English; both advisers must be consulted before registering in the program, and both must sign the approved program of studies. the Education Adviser should be consulted first.
2. course requirements for students specializing in English include the following: 15 credits in English, 6 credits of which must be in courses on the 700 level (including English 701 or 703). students who have not previously taken courses equivalent to English 636 and 662 or 673 must include those courses in the 15 credits.

courses in English

Courses on the 600 level are designed for students who have not already had work in the area concerned, and are open to qualified undergraduates with permission of the department.

613. introduction to Old English. 2 hr. plus conf.; 3 cr. Language and literature of
618. Introduction to Middle English. 2 hr. plus conf.; 3 cr.

619. Major Works of the Middle Ages. 2 hr. plus conf.; 3 cr.††

620. Major Writers of the Renaissance
Exclusive of Shakespeare. 2 hr. plus conf.; 3 cr.††

621. Major Writers of the Seventeenth Century. 2 hr. plus conf.; 3 cr.††

622. Major Writers of the Eighteenth Century. 2 hr. plus conf.; 3 cr.††

623. Major Romantic Writers. 2 hr. plus conf.; 3 cr. Poetry and prose, exclusive of the novel.†

624. Major Victorian Writers. 2 hr. plus conf.; 3 cr. Poetry and prose, exclusive of the novel.††

627. American Writers before 1918. 2 hr. plus conf.; 3 cr. Poetry and prose, exclusive of the novel.†

629. Modern Writers. 2 hr. plus conf.; 3 cr. British and American nondramatic literature since about 1918.†

635. English and American Novelists. 2 hr. plus conf.; 3 cr. The novel from the eighteenth century to the present.†

636. History of Literary Criticism. 2 hr. plus conf.; 3 cr. Readings in the major critiques from Plato and Aristotle to the present.†

638. Modern Drama. 2 hr. plus conf.; 3 cr. American, British, and European dramatic literature and theatre from Ibsen to the present.†

662. History of the English Language. 2 hr. plus conf.; 3 cr. Structure and development of modern English.†

673. New Approaches to English Grammar. 2 hr. plus conf.; 3 cr. Recent theories and techniques in linguistics.†

681. Special Studies. 2 hr. plus conf.; 3 cr. A study of literature and a related topic. Subject will vary from semester to semester and will be announced in advance. In recent years the following courses have been offered: Influence of Myth, Influence of the Bible, Black Literature, Literature and Psychology, Great Books of the Twentieth Century, Literature and Politics, Literature and Cinema, and Literature and Theatre.†

701. Seminar in Graduate Methodology. 2 hr. plus conf.; 3 cr. Development of proficiency in literary research and bibliographical methods through individual research projects involving frequent library assignments. Normally to be taken in the first semester of graduate work, and certainly before the writing of the thesis.†

703. Composition Theory and Literary Studies. 3 hr.; 3 cr. A study of literary practices, the many varied forms of reading and writing, and of writing pedagogy in relation to texts that put literacy into wide historical and theoretical contexts. Recommended for M.S.Ed. in place of 701.†

Note: Students should not, without the permission of the department, take any of the following courses unless they have had preparation in the area, such as an undergraduate elective, a 600-level graduate course, or the equivalent. Courses entitled “Studies in” may be repeated for credit if the subject is different.

714. Studies in Old English. 2 hr. plus conf.; 3 cr.

719. Studies in Medieval Literature. 2 hr. plus conf.; 3 cr.††

720. Studies in Renaissance Literature. 2 hr. plus conf.; 3 cr.††

721. Studies in Seventeenth-Century Literature. 2 hr. plus conf.; 3 cr.††

722. Studies in Eighteenth-Century Literature. 2 hr. plus conf.; 3 cr.†

723. Studies in Romantic Literature. 2 hr. plus conf.; 3 cr.†

724. Studies in Victorian Literature. 2 hr. plus conf.; 3 cr.†

726. Studies in Early American Literature. 2 hr. plus conf.; 3 cr.††

727. Studies in American Literature, 1820–1920. 2 hr. plus conf.; 3 cr.†

729. Studies in Modern Literature. 2 hr. plus conf.; 3 cr.†

736. Studies in Criticism. 2 hr. plus conf.; 3 cr.††

742. Studies in Shakespeare’s Plays. 2 hr. plus conf.; 3 cr.†

Courses numbered 751–759 are open to candidates in the Creative Writing Sequence.

751. Workshop in Fiction. 2 or 3 hr. plus conf.; 3 cr. May be repeated for credit.†

753. Workshop in Poetry. 2 or 3 hr. plus conf.; 3 cr. May be repeated for credit.††

755. Workshop in Drama. 2 or 3 hr. plus conf.; 3 cr. May be repeated for credit.††

757. Workshop in Special Topics in Creative Writing. 2 hr. plus conf.; 3 cr. An intensive study of one or more writing genres, with appropriate readings and writing practice; e.g., literary essay, children’s literature, narrative poetry, science fiction, etc. May be repeated for credit.

759. Advanced Writing Project (Thesis). 3 hr.; 3 cr. Prereq.: Completion of course work. Preparation of the required creative writing project under the supervision of an instructor.†

760. Fiction in Theory and Practice. 2 hr. plus conf.; 3 cr. An intensive study of the theory of fiction, with close reading of a number of stories, novellas, and/or novels and readings in literary criticism. (This is not a writing workshop course but one in the critical reading of fiction. It is designed especially for creative writers.)

761. Poetry in Theory and Practice. 2 hr. plus conf.; 3 cr. An intensive study of poetical theory, with close reading of a number of poems and readings in literary criticism. (This is not a writing workshop course but one in the critical reading of poetry. It is designed especially for creative writers.)

762. Drama in Theory and Practice. 2 hr. plus conf.; 3 cr. An intensive study of the theory of drama, with close reading of a number of plays and readings in literary criticism. (This is not a writing workshop course but one in the critical reading of drama. It is designed especially for creative writers.)

775. Studies in English Linguistics. 2 hr. plus conf.; 3 cr.††

781. Special Seminars. 2 hr. plus conf.; 3 cr. Intensive analysis of a major figure, type, trend, or problem, under the guidance of a specialist. The subject will vary from semester to semester and will be announced in advance together with any special prerequisites.†

788. Cooperative Education Placement. Prereq.: Permission of the director of graduate studies. Experiential learning through placement. Opportunity to test and demonstrate academic learning in an organizational setting. Students receive academic credit as well as a stipend from the placement. A learning contract as well as an academically related project will be worked out with an adviser.

788.1. 1 hr.; 1 cr.

788.2. 2 hr.; 2 cr.

788.3. 3 hr.; 3 cr.

788.4. 4 hr.; 4 cr.

788.5. 5 hr.; 5 cr.

788.6. 6 hr.; 6 cr.

791. Thesis Course. 3 hr.; 3 cr. Prereq.: Completion of course work. Students should not register for this course until they have consulted the Graduate Adviser, tentatively established a topic, and obtained the agreement of a faculty member to act as supervisor. If the thesis is not completed by the end of the semester during which the student is registered for this course, a grade of Incomplete will be given, which must be made up no later than by the end of the four-year
period allotted for completion of the Master’s degree.†

795. Independent Study. Hr. to be arranged; 3 cr. Prereq.: Permission of the director of graduate studies and the instructor. Tutorial for work in a special subject not covered by regular course offerings. May be repeated for credit if the topic is changed. Open only to candidates for the M.A. in English.†

EUROPEAN LANGUAGES & LITERATURES

Chair: Hermann W. Haller
Dept. Office: King Hall 207, 997-5980; Fax 997-5072

The Department of European Languages and Literatures offers the Master of Arts degree in French and in Italian. The degree leads to teaching careers in secondary education and college, and to admission to doctoral programs in these languages or comparative literature. Courses cover numerous aspects of the literature from the Medieval through the contemporary periods, viewed through various methods of literary criticism. Courses are also given in the history of the language, advanced translation, civilization, and the cinema. Seminars are set aside for methodology, selected authors or literary topics, and special problems. The Department of European Languages and Literatures, in cooperation with the School of Education, also offers the Master of Science in Education degree in French and in Italian.

Faculty
Haller, Hermann W., Chair, Professor, Ph.D. 1971, University of Bern: Romance philology, Italian dialect literatures
Brown, Royal S., French Adviser, Professor, Ph.D. 1975, Columbia University: twentieth-century French literature, music, and cinema
Carravetta, Peter, Italian Adviser, Professor, Ph.D. 1983, New York University: Modern Italian culture, history of criticism, theory of literature, post-modernism
Paulicelli, Eugenia, Associate Professor, Ph.D. 1991, University of Wisconsin at Madison: Italian Renaissance literature, cultural studies, women writers, literature and the visual arts
Russell, Rinaldina, Professor, Ph.D. 1971, Columbia University: Italian Medieval and Renaissance literature, women writers

MASTER OF ARTS PROGRAM

Graduate Advisers: Peter Carravetta (Italian), Royal Brown (French)

Requirements for Matriculation
These requirements are in addition to the general requirements for admission.
1. A strong undergraduate concentration in either French or Italian, consisting normally of a minimum of 20 undergraduate elective credits.
2. The credentials of each applicant are to be examined by a suitable departmental committee which shall have the authority to accept or reject the candidate. This committee may request an interview with a candidate for admission if it feels it necessary to do so.

Requirements for the Master of Arts Degree
These requirements are in addition to the general requirements for the Master of Arts degree.
1. Students must consult the Graduate Adviser in their language for assistance and guidance in working out an approved program of studies.
2. Thirty credits are required for the Master of Arts degree. Completion of a thesis is optional. A minimum of 24 credits must be taken in the major language. The remaining credits may be taken with permission in a second language other than English.
3. All students are required to take the appropriate seminar (781) and course (701).
4. Students will be required to demonstrate their reading knowledge of another language other than English, in addition to their major language. A classical language may be substituted by special permission.
5. A comprehensive examination, both written and oral, will be administered in the major language, in which students will be tested on their knowledge of the important authors and literary movements. A student may not attempt this examination more than twice.
6. A thesis based on original research (791, 792, Special Problems) may be substituted for two courses. This thesis will normally be written in English, or, by special permission, in the foreign language of the major field of the student’s concentration.

MASTER OF SCIENCE IN EDUCATION PROGRAM

Graduate Advisers: Royal Brown (French) and Peter Carravetta (Italian)

The Master of Science in Education Program (French and Italian) responds to the needs of teachers and prospective teachers of foreign languages. The degree program combines course work in: 1) culture, literature, and language; 2) foreign language education; and 3) professional education. The courses in culture, literature, and language are given by the Department of European Languages and Literatures. The courses in foreign language education and professional education are offered by the Division of Education.

For admission requirements to Secondary Education programs, see page 74.

Requirements for Matriculation
In addition to the general admission requirements stated on page 18, applicants should have:
A. Strong undergraduate concentration in the language of specialization consisting of at least 21 credits above course 204.
B. Either an undergraduate minor in Secondary Education or completion of the following sequence of courses as part of the Secondary Education Initial Certificate (see pages 74-75):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SEYS 536, Educational Foundations</td>
<td>3</td>
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<tr>
<td>SEYS 552, Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SEYS 564, Seminar in Teaching</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td></td>
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<tr>
<td>SEYS 574, Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>SEYS 584, Standards-Based Curriculum &amp; Assessment in Teaching Foreign Languages</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SEYS 700, Language, Literacy &amp; Culture in Education</td>
<td>3 cr.</td>
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</table>

Requirements for the Master of Science Degree
The 30 credits required for the degree are to be distributed as follows:
A. Six courses in the major language:
   Two courses (6 cr.) in language and linguistics
   Four courses (12 cr.) in literature and civilization
B. Four courses in Secondary Education:
   1. One course from the area of Foundations of Education: SEYS 701-708 (Prereq.: SEYS 201 or 536); 3 cr.
   2. One course from the area of Psychological Foundations: SEYS 709, 710, 717, 718, 719, 738, or 768 (Prereq.: SEYS 222 or 552); 3 cr.
   3. SEYS 743, Methods of Teaching Foreign Languages in Secondary School (Prereq.: SEYS 351 or 562); 3 cr.
   4. SEYS 785, Methods of Research in Foreign Language Instruction (Prereq.: SEYS 743) or SEYS 790, a thesis based on original research in language or literature, directed by an adviser in the major lan-
guage; 3 cr.
C. Students should meet with the Graduate Adviser as soon as possible to plan their program of study and submit it for approval.

Courses in French
The specific topic in each course entitled “Studies in . . .” will be announced at registration. Each “Studies in . . .” course may be repeated for credit provided the topic is different.

701. History of the French Language. 2 hr. plus conf.; 3 cr.
704. Problems in French Language. 2 hr. plus conf.; 3 cr.
708. French Medieval Literature. 2 hr. plus conf.; 3 cr.
710. Rabelais and Montaigne. 2 hr. plus conf.; 3 cr.
711. French Renaissance Literature. 2 hr. plus conf.; 3 cr.
713, 714. French Classical Theatre of the Seventeenth Century, 2 hr. plus conf.; 3 cr. each semester. First semester: Corneille and Racine. Second semester: Molière.
715. Non-Dramatic Literature of the Seventeenth Century. 2 hr. plus conf.; 3 cr.
716. Voltaire and the “Philosophes.” 2 hr. plus conf.; 3 cr.
717. The Eighteenth Century. 2 hr. plus conf.; 3 cr.
721. The Poetry and Theatre of the Nineteenth Century. 2 hr. plus conf.; 3 cr.
722. Baudelaire and the Symbolists. 2 hr. plus conf.; 3 cr.
724. Contemporary French Literature. 2 hr. plus conf.; 3 cr.
728. Contemporary French Theatre. 2 hr. plus conf.; 3 cr.
778. Advanced Translation in French. 2 hr. plus conf.; 3 cr. The course will deal with translation in theory and in practice and will also include linguistics and stylistics. The translation will be from English to French and from French to English.
779. Studies in French Cinema. 4 hr.; 3 cr.

Courses in Italian
The specific topic in each course entitled “Studies in . . .” will be announced at registration. Each “Studies in . . .” course may be repeated for credit provided the topic is different.

701. History of the Italian Language. 2 hr. plus conf.; 3 cr.
704. Problems in Italian Language. 2 hr. plus conf.; 3 cr. This course can be repeated for credit provided the topic is different.
707, 708. Humanism and the Renaissance. 2 hr. plus conf.; 3 cr. each semester.
707. Special attention will be given to the historical and cultural situation in Quattrocento Italy; Poliziano, Lorenzo de’ Medici; the great centers of Florence, Naples, Rome, and Padua; the chivalric poems of Pulci and Boiardo.
708. The questione della lingua: the treatise writers: Machiavelli, Ariosto, and Tasso. The novelle of Bandello, Firenzuela; the Counter-Reformation and the Academies.
711. Italian Literature from its Origins to the Trecento. 2 hr. plus conf.; 3 cr.
713, 714. Dante’s Divina Commedia. 2 hr. plus conf.; 3 cr. each semester.
715. The Early Italian Lyric and Petrarch. 2 hr. plus conf.; 3 cr.
716. Boccaccio’s Decameron and the Italian Novella. 2 hr. plus conf.; 3 cr.
721. Ariosto and Tasso. 2 hr. plus conf.; 3 cr.
722. Machiavelli and Guicciardini: Historians, Men of Letters, and Political Thinkers. 2 hr. plus conf.; 3 cr.
723. Italian Literature in the Age of the Baroque. 2 hr. plus conf.; 3 cr.
725. Italian Comedy from the Renaissance to the End of the Eighteenth Century. 2 hr. plus conf.; 3 cr.
726. Aspects of Nineteenth- and Twentieth-Century Theatre. 2 hr. plus conf.; 3 cr.
752. The Art and Humanism of Manzoni. 2 hr. plus conf.; 3 cr.
753. Leopardi and Foscolo. 2 hr. plus conf.; 3 cr.
754. Carducci, D’Annunzio, Pascoli. 2 hr. plus conf.; 3 cr.
755. Contemporary Italian Poetry. 2 hr. plus conf.; 3 cr.
760. History of Italian Literary Criticism, from the Renaissance to De Sanctis. 2 hr. plus conf.; 3 cr.
761. Italian Literary Criticism since 1870. 2 hr. plus conf.; 3 cr.
762. The Modern Italian Novel. 2 hr. plus conf.; 3 cr.
763. The Contemporary Italian Novel. 2 hr. plus conf.; 3 cr.
778. Advanced Translation in Italian. 2 hr. plus conf.; 3 cr. The course will deal with translation in theory and in practice and will also include linguistics and stylistics. The translation will be from English to Italian and from Italian to English.
779. Studies in Italian Cinema. 4 hr.; 3 cr.

Courses in French
The specific topic in each course entitled “Studies in . . .” will be announced at registration. Each “Studies in . . .” course may be repeated for credit provided the topic is different.

780. Trends and Events in French Civilization. 2 hr. plus conf.; 3 cr. A study of the events and ideological trends of the civilization produced by France. Students will read and report on primary texts in fields such as political history, economics, sociology, and on significant artistic and cultural developments.
781. Seminar: Methodology and Selected Literary Topics. 2 hr. plus conf.; 3 cr.
782. Studies in French Literature. 2 hr. plus conf.; 3 cr. This course is intended as a seminar in the study of French literature. It is an open topics course; the title will be announced at the beginning of each semester in which it is offered. It can be repeated for credit, provided the topic is different.
791, 792. Special Problems. 3 cr. each semester. Individual study, under the supervision of an instructor, of a topic agreed on, normally involving research in literary history or criticism, and resulting in an acceptable thesis. No credit will be given for these courses until the thesis has been approved. No more than three credits in each course may be counted toward the degree.

Courses in Italian
The specific topic in each course entitled “Studies in . . .” will be announced at registration. Each “Studies in . . .” course may be repeated for credit provided the topic is different.

780. Trends and Events in Italian Civilization. 2 hr. plus conf.; 3 cr. A study of the events and ideological trends of the civilization produced by Italy. Students will read and report on primary texts in fields such as political history, economics, sociology, and on significant artistic and cultural developments.
781. Seminar: Methodology and Selected Literary Topics. 2 hr. plus conf.; 3 cr.
782. Studies in Italian Literature. 2 hr. plus conf.; 3 cr. This course is intended as a seminar in the study of Italian literature. It is an open topics course; the title will be announced at the beginning of each semester in which it is offered. It can be repeated for credit provided the topic is different.
FAMILY, NUTRITION & EXERCISE SCIENCES

Chair: Michael M. Toner

Deputy Chairs: John R. Magel, Elizabeth D. Lowe

Graduate Advisers: Jacqueline M. Newman (Nutrition, Family, and Consumer Sciences), and Michael M. Toner (Nutrition and Exercise Sciences, and Physical Education)

Dept. Office: Remsen 306, 997-4475; Fax 997-4163

Graduate programs in Family, Nutrition, and Exercise Sciences (FNES) have several emphases including: curriculum and teaching in movement science and physical education designed for educators and clinical practitioners in schools, hospitals, and child-care centers; educational services in the community, business, and industry designed for those who wish to teach in community settings such as adult education, programs for the elderly, and public or private agencies; exercise science designed for students preparing for careers in corporate/executive fitness, cardiac rehabilitation, and general health promotion; nutrition and exercise sciences designed for those preparing for careers in fitness and health-promotion settings incorporating nutritional aspects; nutrition education designed for students who work or teach in hospitals, nursing homes, schools, or community settings; and teacher education in family and consumer sciences/home economics designed for students whose primary interest is in secondary school teaching.

The Department offers a Dietetic Internship Program which is accredited by the American Dietetic Association (ADA) Commission on Accreditation. For further information, contact a Graduate Adviser.

Faculty

Toner, Michael M., Chair, Associate Professor, Ph.D. 1979, Ohio State University: exercise physiology, temperature regulation during exercise
Magel, John R., Deputy Chair of Exercise Sciences and Physical Education, Professor, Ph.D. 1966, University of Michigan: exercise physiology, metabolic and cardiovascular response to acute and chronic physical training, especially swimming physiology
Lowe, Elizabeth D., Deputy Chair of Family and Consumer Sciences, Associate Professor, Ph.D. 1979, University of Illinois: textiles and apparel, fashion theory, sociocultural aspects of fashion
Braverman, Susan P., Director, Dietetic Internship Program, Lecturer, M.S. 1967, Hunter College: medical and community nutrition and dietetics
Fardy, Paul S., Professor, Ph.D. 1967, University of Illinois: physical activity and cardiovascular health, cardiac rehabilitation, and health promotion
Kant, Ashima K., Associate Professor, Ph.D. 1987, University of Maryland: food and nutrition, nutritional epidemiology
Ludman, Elaine Kris, Associate Professor, Ed.D. 1979, Teachers College, Columbia University: food and nutrition, geriatric nutrition, nutrition in special populations
Miller, Marcia C., Lecturer, Ed.D. 1983, Teachers College, Columbia University: food and nutrition, adolescent nutrition, food habits and patterns, nutrition education
Newman, Jacqueline M., Professor, Ph.D. 1980, New York University: food and nutrition, Chinese food habits, changes with acculturation, food habits of other ethnic groups, the elderly, the obese, and food history
Travers, Rosalie, Assistant Professor, Ph.D. 1995, New York University: family and consumer sciences education

PROGRAM FOR THE MASTER OF SCIENCE DEGREE IN NUTRITION AND EXERCISE SCIENCES

The Master of Science Program in Nutrition and Exercise Sciences offers students the opportunity for advanced study in three areas of specialization including nutrition, exercise science, or nutrition and exercise sciences. Requirements for matriculation, general requirements for the degree, and descriptions of individual areas of specialization with required courses are listed below:

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

Nutrition

1. An undergraduate degree in nutrition or dietetics (ADA verification equivalent program) with a minimum GPA of 3.0.
2. Approval of the graduate nutrition adviser.
3. An interview may be required.

Exercise Science

1. An undergraduate degree in physical education, exercise science, or an equivalent area with a minimum GPA of 3.0.
2. Students without an undergraduate degree in one of the above areas must satisfy the following:
   a) An undergraduate degree with a minimum GPA of 3.0.
   b) Make up deficiencies as specified by the department.
3. Approval of the graduate exercise science adviser.
4. An interview may be required.

Nutrition and Exercise Sciences

1. An undergraduate degree in nutrition and exercise sciences or an equivalent area with a minimum GPA of 3.0.
2. Students without an undergraduate degree in one of the above areas must satisfy the following:
   a) An undergraduate degree with a minimum GPA of 3.0.
   b) A course in anatomy and physiology (BIO 43* or the equivalent).
   c) Two courses in nutrition (FNES 263* and 264* or the equivalent).
   d) A course in exercise physiology (FNES 342* or the equivalent).
3. Approval of the graduate nutrition and exercise sciences adviser.
4. An interview may be required.

*Note: These courses have specific prerequisites that must be satisfied. BIO 43 (prereq.: BIO 11); FNES 263 (prereq.: CHEM 19 and 159); FNES 264 (prereq.: FNES 263); and FNES 342 (prereq.: BIO 43 and CHEM 19).
General Requirements for the Master of Science Degree in Nutrition and Exercise Sciences

These requirements are in addition to the general requirements for the Master of Science Degree

1. Students must complete 36 graduate credits with a minimum average of B (GPA of 3.0).
2. Students must complete a research project that culminates in a Master’s thesis or manuscript for journal publication.
3. All elective courses must be approved by the appropriate graduate adviser.

Areas of Specialization with Required Courses

Nutrition
The M.S. degree program with specialization in nutrition offers a sequence of courses that enhance the clinical background of dietitians and nutritionists who work with clients in hospitals, nursing homes, outpatient clinics, community programs, schools, wellness programs, and governmental and privately funded programs. The program offers opportunities for in-depth study through didactic learning, hands-on clinical and field experience, and the development and completion of individual research projects. Students are prepared for careers in nutrition in a wide variety of corporate, hospital, media, and community centers, as well as in other clinical and public health agencies. In addition, the program will prepare students for more advanced study in nutrition.

Required courses in the nutrition specialization include FNES 636, 710, 711, 722, 762, 767, 768, 796, 797, and two courses (6 credits) approved by the graduate nutrition adviser from the following: FNES 705, 719, 720, 721, 722, 723, 724, 725, 726, 791 and one elective course (3 credits) approved by the graduate exercise science adviser. Students interested in this program should consult with the graduate exercise science adviser, Dr. Michael Toner.

Nutrition and Exercise Sciences
The M.S. degree program with specialization in nutrition and exercise sciences provides for advanced study in the combined disciplines of nutrition and exercise science. The program offers opportunity for in-depth study through didactic learning, hands-on field experience, and the development and completion of individual research projects. The program will develop highly competent professionals in the field of nutrition and exercise sciences who will be prepared to provide the general public with legitimate, prudent, and effective ways to improve health, wellness, and fitness in the global marketplace.

Students are prepared to direct and administer programs in nutrition, cardiovascular fitness and wellness in a wide variety of corporate, hospital, community, sports medicine, physical and cardiac rehabilitation centers, and other clinical and preventive health agencies. In addition, the program will prepare students to enter doctoral programs in nutrition and exercise sciences, and conduct research that will contribute to the body of knowledge in this new and growing discipline.

Required courses in the nutrition and exercise sciences specialization include FNES 705 or 796 and FNES 720 or 707 (these selections are based on previous background and recommendation of the graduate nutrition and exercise adviser), 710, 721, 722, 724, 725, 726, 762, 767, 768, and 791 or 797 (797 may be substituted for 791 depending on the nature of the thesis project and permission of the graduate nutrition and exercise sciences adviser). Students interested in this specialization should consult with the graduate nutrition and exercise sciences adviser, Dr. Michael Toner.

Exercise Science
The M.S. degree program with specialization in exercise science offers a sequence of courses that prepare students for careers in adult fitness and wellness, corporate and executive fitness, general health promotion, and cardiac rehabilitation. Students are exposed to cardiovascular fitness programs in commercial and clinical settings where their primary responsibility is initiating, directing, and evaluating programs that promote enhanced health and fitness.

Course work is blended with clinical experience, and students are mentored in the development and completion of individual research projects. The human performance laboratory provides for measurement of muscular strength and endurance, body composition analysis, and metabolic, cardiovascular, and respiratory function during exercise. Clinical research experiences that focus on the health implication of regular exercise as well as in-depth supervised field experiences are provided through a wide variety of corporate and clinical internships. In addition, the program prepares students for more advanced study in exercise science.

Required courses in the exercise science specialization include FNES 705, 710, 719, 720, 721, 722, 723, 724, 725, 726, 791 and one elective course (3 credits) approved by the graduate exercise science adviser. Students interested in this program should consult with the graduate exercise science adviser, Dr. Michael Toner.

PROGRAM OF FAMILY AND CONSUMER SCIENCES TEACHER EDUCATION K-12

Post-Baccalaureate Initial Certificate
This is a sequence of courses for those planning to teach Family and Consumer Sciences/Home Economics who wish to fulfill Initial Teacher Certification in Family and Consumer Sciences. The program does not fulfill requirements of the Master of Science in Education degree.

Requirements for Admission
1. A Bachelor’s degree with a general education core in the liberal arts and sciences.
2. An average of B (GPA of 3.0) or better in the undergraduate major.
3. A letter of intent.
4. Two letters of recommendation.
5. An interview may be required.
6. Applicants who majored in Family and Consumer Sciences but do not hold an Initial Certificate, or applicants who come from disciplines other than Family and Consumer Sciences, will be required to satisfy deficiencies by taking courses which constitute as a minimum the following: FNES 101, 104 or 707, 121, 126, 140 or 745, 147, 153 or 751, 156, 163, 203, or their equivalents.

Requirements for Maintenance
1. Students must maintain a B (GPA of 3.0) or better average in the program.
2. Course sequence must be approved by an education graduate adviser in the Family and Consumer Sciences unit.

Requirements for Initial Certificate
1. An overall average of B (GPA of 3.0) or better.
2. Completion of the following content core courses or their equivalent: SEYS 536, 552, 700 and FNES 563, 574, 634, 636, 637.
3. At least 6 semester hours, or its equivalent, of a language other than English.

Professional Certificate
A sequence of courses for those, with either provisional or initial certification in Family and Consumer Sciences/Home Economics, who wish to fulfill the Master’s degree requirement for permanent or professional teacher certification.

Requirements for Matriculation
1. An average of B (GPA of 3.0) or better in the undergraduate major.
2. Initial certificate in Family and Consumer Sciences Teacher Education.
3. Approval of the Department.
4. An interview is required.
**Requirements for Maintenance**
1. Students must maintain a B (GPA of 3.0) or better average in the program.
2. Course sequence must be approved by a graduate adviser.

**Requirements for Graduation**
1. Students must complete a minimum of 30 credits with an academic average of B (GPA of 3.0) or better.
2. The following courses are required:
   - FNES 634, 636, 711, 738, 747, 796, and 797; SEYS one 700-level course from Foundations of Education or Psychological Foundations; and two courses from two of the following three groups:
     - FNES 707 or 765
     - FNES 741 or 745
     - FNES 749 or 751

**PROGRAMS OF PHYSICAL EDUCATION TEACHER EDUCATION (PRE-K–12)**

**Post-Baccalaureate Initial Certificate**
This sequence of courses prepares students for the New York State Initial Certificate to teach Physical Education Pre-K–12. It is designed for individuals who have completed an undergraduate major other than in teacher preparation in physical education, want to teach physical education. This program does not fulfill the requirements of the Master of Science in Education degree in physical education.

**Requirements for Admission and Maintenance**
Admission to the program begins with submission of an application for matriculation. In addition to the application, a student must submit a letter of intent, which includes the student’s background in sport and physical education, experiences working in sport, recreation, or physical education settings, and in writing courses, and letters of reference. The applicant must hold a Bachelor’s degree with a general education core in the liberal arts and sciences. Applicants who majored in physical education but do not hold an initial certificate, or applicants who come from disciplines other than physical education, will be required to satisfy deficiencies by taking courses which constitute a minimum the following: FNES 11, 12 (3 courses), 13, 14 (2 courses), 30, 143, 253, 266, 342, and SEYS 350 or their equivalents. (See the Undergraduate Bulletin for descriptions of these courses.) Applicants are also required to have at least 6 semester hours, or its equivalent, of a language other than English. They must meet, as well, the general admissions requirements for graduate study at Queens College, including a cumulative and departmental average of at least a B (3.0 GPA). Students must maintain a B average to remain in the program.

**Requirements for Initial Certificate**
To complete the Initial Certificate the student must satisfy the following requirements:
1. Completion of the following courses, or their equivalents: FNES 562, 573, 722, 730, and 740, SEYS 536, 552, and 700, or EEE 525 and 711.
2. Students may enter FNES 573, Student Teaching in Physical Education, following the completion of FNES 562, 730, and 740, SEYS 536, 552, and 700, or EEE 525 and 711.
3. Students are required to complete training in safety education, and prevention of child and substance abuse, and school violence prevention. In addition, students must hold a current certification in First Aid and Cardiopulmonary Resuscitation (CPR).

**Requirements for Graduation**
To complete the M.S. in Education degree in Physical Education, the student must satisfy the following requirements:
1. FNES 705, 710, 713, 714, 715, 722, 725, 730, 740, and one 700-level elective from either EEE or SEYS. The elective course must be approved in advance by the graduate adviser.
2. Students must complete a minimum of 30 graduate credits with an academic average of at least B (3.0 GPA).

**Requirements for Professional Certificate**
A sequence of courses on the theoretical study of curriculum and teaching integrated with the substantive study of human movement and its professional application to educational and clinical practice.

**Requirements for Admission and Maintenance**
These requirements are in addition to the general requirements for admission:
1. A baccalaureate degree with a provisional or initial certificate in Physical Education K–12
2. An undergraduate average of B (3.0 GPA) or better in the undergraduate major. Students with grade-point averages less than 3.0 may be admitted to the program, but are placed on academic probation. Students on academic probation must maintain a B average during the first 12 graduate credits.
3. Applicants who hold provisional certification and complete the Master of Science in Education degree will have met all the education requirements for permanent certification. Students who do not hold provisional certification will not be eligible for permanent certification. Students who hold an initial certificate and complete the M.S. Ed. degree program, will have met the degree requirement for the professional certificate. See the graduate adviser regarding the additional requirements for the professional certificate.
4. An interview may be required.
5. Applicants, whose backgrounds are deemed deficient or not current, may be required to make up deficiencies as specified by the department.
6. Applicants must maintain a grade-point average of at least B (3.0). Students admitted to the program who have been placed on academic probation must maintain a B or better grade-point average for the first twelve graduate credits to remain in the program.

**Requirements for Graduation**
1. Students must complete a minimum of 30 credits with an academic average of B (3.0) or better.
2. Required courses include FNES 705, 710, 713, 714, 715, 722, 725, 730, 740; one elective course from SEYS or EEE 700-level offerings; and must be approved in advance by the graduate adviser.
3. Students must pass a comprehensive examination in the major field of study.

**Courses**

*562. Seminar in the Teaching of Physical Education. 3 hr. plus fieldwork; 3 cr. Prereq.: Course in adolescent development. Examines relevant methods and materials for teaching students at the middle and high school levels. Includes methods of integrating State and National standards into the curriculum, specific to these age levels. Students must complete 36 field work hours.

*563. Seminar in the Teaching of Family and Consumer Sciences. 4 hr.; 3 cr. Prereq. or coreq.: SEYS 552. This course focuses on preparing students for the student teaching experience emphasizing teaching models, learning styles, State learning standards, curriculum, unit/weekly and daily lesson planning, classroom management, working with students with special needs, assessment and professional development. Fieldwork required.

*573. Student Teaching in Physical Edu-
cation. 2 hr. plus participation, 25-30 hr. per week for a minimum of 14 weeks; 6 cr. Prereq.: A grade of 2.75 in the major and a 3.0 average in foundations of education, child development, adolescent development, literacy and technology; a grade of B or better in SEYS 562. Supervised teaching and observation in elementary and secondary schools. Students are required to spend a minimum of 7 weeks at each level.

*574. Student Teaching in Family and Consumer Sciences. 3 hr. sem. 25-30 hr. per week for 14 weeks; 6 cr. Prereq. or coreq.: SEYS 536, 552, FNES 563, 637; an overall GPA of 3.0; a grade of C or better in all Family and Consumer Sciences courses; an average of 3.0 or better in the pedagogy core; a grade of B or better in FNES 563; and no open grades in required content courses. This course is the student teaching experience which involves spending 25–30 hours a week teaching Family and Consumer Sciences classes at two different school levels. The course also includes attending a three-hour on-campus seminar.

634. Teaching Diverse Student Populations Family and Consumer Sciences. 3 hr.; 3 cr. Examination of the subject areas that constitute the discipline of Family and Consumer Sciences and analysis of how to adapt teaching techniques to meet the abilities, backgrounds, and interests of diverse student populations. Attention given to the process of nondiscriminatory authentic assessment.†

636. Writing and Technology for the Professional. 3 hr.; 3 cr. Learning how to evaluate and enhance materials from ideas to print and other media including computer technologies using current professional information sources. The course provides advanced individual and team-based experiences in preparation and evaluation of instructional and other materials for use at all grade levels. Fall

637. Contemporary Educational Trends and the Effect on Family and Consumer Sciences Curricula. 3 hr.; 3cr. Prereq. or coreq.: SEYS 552. The course is a requirement for the Post-Baccalaureate Initial Certificate in Family and Consumer Sciences and provides the student with up-to-date information on emerging educational theories and practices.

705. Research in Physical Education. 2 hr. plus conf.; 3 cr. Prereq.: FNES 710. Basic methodologies and techniques used in physical education research including historical, descriptive, and experimental methods. Fall, Spring

707. Cultural and Ethnic Foods. 2 lec., 2 lab. hr.; 3 cr. Prereq.: Undergraduate course work in foods and nutrition. Study of the food patterns of varying cultures and ethnic groups, and of the nutritional, economic, and sociological implications of these patterns. Field trips included. Fall

708. Seminar in Health, Physical Education, and Movement Science. 2 hr. plus conf.; 3 cr. Topic announced each semester. May be repeated for credit for different topic. Fall, Spring

710. Application of Quantitative Methods in FNES. 2 rec., 1 lab. hr.; 3 cr. Prereq.: A course in elementary statistics or demonstrated proficiency in descriptive statistics. Application of descriptive, correlational, and inferential statistical methods.

711. Contemporary Issues in FNES. 3 hr.; 3 cr. Prereq.: Permission of department. Curricula and programs in FNES as they are affected by social and professional issues. Spring

713. Curriculum Development in Physical Education. 2 hr. plus conf.; 3 cr. Prereq.: FNES 266 or a methods course in physical education. The study of curriculum design in physical education. Students will study the methods and procedures for curriculum development, as well as, the implementation of curriculum models in school settings. Course includes 4-6 site visits. Fall

714. Analysis of Teaching Physical Education. 2 hr. plus conf.; 3 cr. Prereq.: FNES 266 or a methods course in physical education. The study of the processes involved in teaching physical education. Students will study traditional and new styles of teaching physical education to all grade levels, as well as, ways of analyzing student and teacher behavior in physical education classes. Course includes 4-6 site visits. Spring

715. Movement Experiences for Atypical Populations. 2 hr. plus conf.; 3 cr. Programmatic approaches to perceptual-motor skill development of individuals with learning handicaps and disabilities, emotional disturbances and physical handicaps. The course provides methods of teaching, assessment strategies, and team approaches. Summer I

719. Cardiac Rehabilitation and Prevention. 2 hr. plus conf.; 3 cr. Overview of cardiac rehabilitation and prevention of coronary artery disease. Topics studied include the cardiovascular disease process, risk factors, stress testing and exercise prescription, lifestyle evaluation, and program description and administration. Fall

720. Scientific Foundations of Physical Fitness and Training. 2 rec., 1 lab. hr.; 3 cr. The principles underlying programs to develop specific aspects of physical fitness are examined within the framework of physiological adaptations to exercise. Fall

721. Principles of Electrocardiography and Stress Testing. 2 hr. plus conf.; 3 cr. Study of the fundamentals of electrocardiography with special emphasis on its application to exercise stress testing. Fall, Spring

722. Exercise, Nutrition, and Weight Control. 3 hr.; 3 cr. Interrelationships between exercise, nutrition, energy metabolism, and weight control. Fall, Spring

723. Physical Activity and Cardiovascular Health. 3 hr.; 3 cr. Review of research relating physical activity to coronary heart disease, with special emphasis on mortality/morbidity, reversal of atherogenesis, cardiovascular disease risk factors, and myocardial function. Spring

724. Adult Fitness and Exercise Prescription. 3 hr.; 3 cr. Prereq.: FNES 721 or permission of instructor. Use of exercise to evaluate and improve cardiovascular function in adults in health and disease. Fall, Spring

725. Measurement of Physical Fitness and Body Composition. 3 hr.; 3 cr. Prereq.: FNES 720. Laboratory and field methods for assessing the various aspects of physical fitness. Fall, Spring

726. Internship in Adult Fitness and/or Cardiac Rehabilitation. Hr. to be arranged; 3 cr. Prereq.: Completion of 24 cr. in the Exercise Science Program and/or permission of instructor. In addition to regular seminar meetings on campus, the on-site hourly requirement varies according to the clinical nature of the internship program. This course will provide an in-depth, highly structured, practical experience in a formalized program dealing with fitness and health enhancement in healthy adult populations as well as populations involved in rehabilitative programs. The internship integrates the basic academic classroom and laboratory learning of the university setting and applies this knowledge to existing community, corporate, and/or clinically-based programs. (Some internships are paid; some are not.) Fall, Spring

728. New Trends in Textiles and Apparel. 3 hr.; 3 cr. Prereq.: FNES 121, Textiles. A survey of research and development and distribution of textile and apparel products in relation to consumer needs.††

730. Mechanical Analysis of Human Movement. 3 hr.; 3 cr. An analysis of the mechanics of human motion based upon the application of principles and laws of physics. Spring

740. Basic Principles of Motor Learning and Performance. 2 rec., 1 lab. hr.; 3 cr. Psychological, physiological, and neurolog-
ical factors relating to the facilitation of learning and performance of motor skills. Fall

741. Drugs: A Family, School, and Community Problem. 3 hr.; 3 cr. A broad approach to the extremely complex drug abuse problem in society today — including the medical, legal, psychological, and social aspects of the problem — to create an awareness and better understanding of the problem, how it affects the individual, the family, the community, and society.††

745. The Child in the Family. 3 hr.; 3 cr. Prereq.: FNES 147, Family Relations. The role of the child in the family from preschool through adolescence. Familial practices evaluated in terms of their effect on the child’s development. ††

747. An Analysis of Teaching Family and Consumer Sciences. 3 hr.; 3 cr. Focuses on examining models of teaching and developing reflective planning, teaching, and evaluation strategies for enhancing professional performance. Provides an opportunity for Family and Consumer Sciences teachers to explore their current ideas and teaching practices for addressing the needs, interests, abilities, and learning styles of diverse student populations. Professional self-awareness will be developed using a variety of approaches including videotape analysis, peer review, and case studies.†

748. Curriculum Development: Theories and Challenges for Family and Consumer Sciences. 3 hr.; 3 cr. An in-depth study of the conceptual framework and philosophy of Family and Consumer Sciences education and the challenges and opportunities the discipline presents for developing curriculum. Teachers will examine various approaches to curriculum development as well as National and NYS Learning Standards and plan curriculum that links them with practices that actively engage students. †

749. Contemporary Home and Family Living. 3 hr.; 3 cr. Prereq.: FNES 147, Family Relations. Research and practices about family and interpersonal relations in contemporary living. ††

751. Resources for Consumer Education. 3 hr.; 3 cr. Prereq.: FNES 151, The Family and Consumer Studies. Materials and methods in teaching consumer education with special emphasis on the role of individuals and families as consumers.

762. Nutrition Counseling. 3 hr.; 3 cr. Prereq.: FNES 365, Nutrition, Counseling, and Assessment, and 366, Medical Nutrition Therapy. Principles of dietary counseling for the general population and for individuals with special health problems. ††

765. Resources for Nutrition Education. 3 hr.; 3 cr. A detailed survey and assessment of resources for nutrition education applicable to a wide variety of audiences.

767. Advanced Diet Therapy. 3 hr.; 3 cr. Prereq.: FNES 365, Nutrition Counseling, and Assessment, and 366, Medical Nutrition Therapy. This course examines the rationale of therapeutic diets and their physiological bases. Current trends in the practice of developing special diets for persons under medical care will be stressed.

768. Advanced Nutrition. 3 hr.; 3 cr. Prereq.: FNES 368, Advanced Nutrition. Recent advances in nutrition and interpretation. A systematic survey of journals and other sources. Fall

770. Community Nutrition. 3 hr.; 3 cr. Prereq.: FNES 264, Nutrition II. A survey of the content, organization, and administration of the publicly and privately sponsored nutrition programs and services offered to the community and of the legislation regulating and affecting these programs. Research studies evaluating such programs will also be examined. Field trips included.

771, 772. Internship in Family, Nutrition, and Exercise Sciences I, II. Hours and credits for each course: 20 hr. per week including seminar; 3 cr. Prereq.: Permission of department. Co-op. Application and analysis of content area learning through internship. Students will work in approved field sites placements under the supervision of experienced professionals. The accompanying seminar focuses on roles and responsibilities of professionals, application of knowledge, and education of client populations.

773, 774. Internship in Dietetics I, II. Hours and credits for each course: 40 hr. internship per week plus seminar; 6 cr. Prereq.: Permission of department; for 772, 771. Application and analysis of content area learning in a formal program of in-depth, highly structured, practical internships. Students will work in one or more approved field site placements (clinical, community, and management) under the supervision of experienced Registered Dietitians, Community Supervisors, and/or Food Service Management professionals. The accompanying seminar focuses on application of knowledge, roles, and responsibilities of professionals, and education of client populations. Only 6 credits of Dietetics Internship may be counted toward the M.S. in Education degree.

775. Advanced Food Service Management. 3 hr.; 3 cr. Prereq.: FNES 275, Institutional Management; 378, Quantity Food Purchasing, Production, and Equipment, or equivalents. An advanced approach to three main areas of food service management: personnel, finance, and labor relations. Through lecture, case study, and analysis of current research reports, the principles of finance, managerial accounting, and the use of the computer are explored, as are general theories and concepts of management/personnel communications, labor relations, and legal problems in the food service industry.

777. Problems and Practices in Food Service Management. 3 hr.; 3 cr. Prereq.: FNES 275, Institutional Management. An integrative approach to the problems and practices of food service management, focusing on the contributions of various scientific disciplines to a study of the stages of production, processing, packaging, and preparation of food for consumption. Special emphasis is given to food sanitation and safety and their effects on the individual, the environment, and ecology.

781, 782. Seminar in Family and Consumer Sciences. 3 hr.; 3 cr. each semester. Selected topics of current interest will be announced in advance of those semesters in which the course is offered. Spring

788. Cooperative Study. Prereq.: Permission of department. Cooperative Study performed by students participating in the Cooperative Education Program involves employment of the student in one of a variety of FNES-related jobs with the direct supervision of the employer and overview guidance provided by a faculty adviser. Cooperative Study supplements the traditional classroom and laboratory programs of study. The student prepares a report for the faculty supervisor upon completion of the Cooperative Study experience. No more than 6 credits may be taken in Cooperative Study.

788.1. 1 hr.; 1 cr.
788.2. 2 hr.; 2 cr.
788.3. 3 hr.; 3 cr.
788.4. 4 hr.; 4 cr.
788.5. 5 hr.; 5 cr.
788.6. 6 hr.; 6 cr.

791, 792. Special Problems. Prereq.: Permission of department. Independent study under supervision of a member of the department. For students recommended by the department for advanced work not otherwise provided in the department or by the School of Education. No more than 6 credits may be taken in Special Problems.

791.1. 1 hr.; 1 cr.
791.2. 2 hr.; 2 cr.
791.3. 3 hr.; 3 cr.
792.1. 1 hr.; 1 cr.
792.2. 2 hr.; 2 cr.
792.3. 3 hr.; 3 cr.

796. Research in Family and Consumer Sciences I. 3 hr.; 3 cr. Prereq.: FNES 636, Writing and Technology for the Professional, a graduate or undergraduate course in statistics, and permission of department.
Theories, methods, and tools applied to research and proposal writing in Family and Consumer Sciences. Development of a research proposal. Spring.

797. Research in Family and Consumer Sciences II. 3 hr.; 3 cr. Prereq.: FNES 796. Research in Family and Consumer Sciences I. Using the proposal developed in FNES 796, the research is implemented. This course includes computer use, analysis of data, and the writing of a research article. Fall.

Courses in Reserve

701. History and Principles of Health and Physical Education.

703. Planning Facilities for Physical Education in Schools and Community.

704. Contemporary Issues and Problems in Physical Education.

706. Contemporary Issues and Problems in Health Education.

707. Dance Education in the United States.


712. The Role of Sport in Contemporary American Society.

727. Clothing and Social Science Theory.

743. Physical Education for the Mentally Retarded, Learning Disabled, and Emotionally Disturbed.

744. Physical Education for the Physically Handicapped and Sensorially Impaired.

746. Practicum in Special Physical Education.

750. Understanding Human Sexuality.

751. Seminar on Drug Use and Abuse.

HISPANIC LANGUAGES & LITERATURES

Chair: Emilio E. De Torre

Graduate Adviser: José Miguel Martínez-Torrejón

Dept. Office: Kiely 243, 997-5660; Fax 997-5669

The Department of Hispanic Languages and Literatures offers the Master of Arts degree in Spanish. The degree leads to teaching careers in secondary education and college, and to admission to doctoral programs in Spanish or comparative literature. Courses cover numerous aspects of Spanish and Spanish-American literature viewed through various methods of literary criticism.

Courses are also given in the history of the language, advanced translation, civilization, and the cinema. Seminars are set aside for methodology, selected authors or literary topics, and special problems. The Department of Hispanic Languages and Literatures, in cooperation with the Division of Education, also offers the Master of Science in Education degree in Spanish.

Faculty

De Torre, Emilio E., Chair, Associate Professor, Ph.D. 1979, City University of New York: twentieth-century Spanish literature

Martínez-Torrejón, José Miguel, Graduate Adviser, Associate Professor, Ph.D. 1989, University of California at Santa Barbara: Medieval and Golden Age Spanish literature

Glickman, Nora, Professor, Ph.D. 1978, New York University: twentieth-century Spanish-American literature, Spanish and Latin American cinema


Llorens, Irma, Associate Professor, Ph.D. 1992, Princeton University: Spanish-American literature, women writers, literature of the Hispanic Caribbean

Rabassa, Gregory, Distinguished Professor, Ph.D. 1954, Columbia University: Brazilian and Spanish-American literature, translation

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

1. A strong undergraduate concentration in Spanish consisting normally of a minimum of 20 undergraduate elective credits.

2. The credentials of each applicant are to be examined by a suitable departmental committee which shall have the authority to accept or reject the candidate. This committee may request an interview with a candidate for admission if it feels it necessary to do so.

Requirements for the Master of Arts Degree

These requirements are in addition to the general requirements for the Master of Arts degree.

1. Students must consult the Graduate Adviser for assistance and guidance in working out an approved program of study.

2. Thirty credits are required for the Master of Arts degree. Completion of a thesis is optional. Students who wish to complete the thesis are required to take 791 and 792 as part of the 30-credit requirement. A minimum of 24 credits must be taken in Spanish. With special permission the remaining credits may be taken in other departments.

3. All students are required to take Spanish 701 and Spanish 781.

4. Students will be required to demonstrate their reading knowledge of another Romance language, in addition to their major language. Latin or any other language pertinent to the study of Hispanic literature may be substituted by special permission.

5. After completing all formal coursework, a comprehensive examination, both written and oral, will be administered in Spanish, in which students will be tested on their knowledge of the important authors and literary movements in Spain and Spanish America. A student may not attempt this examination more than twice.

6. A thesis based on original research (Spanish 791, 792, Special Problems) may be substituted for two of the courses. This thesis will normally be written in English, or, by special permission, in Spanish.

MASTER OF SCIENCE IN EDUCATION PROGRAM

Graduate Adviser: José Miguel Martínez-Torrejón

The Master of Science in Education Program (Spanish) responds to the needs of teachers and prospective teachers of foreign languages. The degree program combines course work in 1) culture, literature,
and language, 2) foreign language education, and 3) professional education. The courses in culture, literature, and language are given by the Department of Hispanic Languages and Literatures. The courses in foreign language education and professional education are offered by the School of Education.

For admission requirements to Secondary Education programs, see page 74.

Requirements for Matriculation

In addition to the general admission requirements stated on page 19 of the Graduate Bulletin, applicants should have:

A. Strong undergraduate concentration in Spanish, consisting of at least 21 credits above Spanish 204.
B. Either an undergraduate minor in Secondary Education or completion of the following sequence of courses as part of the Secondary Education Initial Certificate (see pages 74-75):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEYS 536</td>
<td>Educational Foundations</td>
<td>3</td>
</tr>
<tr>
<td>SEYS 552</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SEYS 564</td>
<td>Seminar in Teaching Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>SEYS 574</td>
<td>Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>SEYS 584</td>
<td>Standards-Based Curriculum &amp; Assessment in Teaching Foreign Languages</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SEYS 700</td>
<td>Language, Literacy &amp; Culture in Education</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

Requirements for the Degree

The 30 credits required for the degree are to be distributed as follows:

A. Six courses in Spanish:

Two courses (6 credits) in language and linguistics
Four courses (12 credits) in literature and civilization

B. Four courses in Secondary Education:

1. One course from the area of Foundations of Education: SEYS 701-708 (3 credits).
2. One course from the area of Psychological Foundations: SEYS 709, 710, 717, 718, 719, 738, or 768 (3 credits).
4. SEYS 785. Methods of Research in Foreign Language Instruction. (Prereq.: SEYS 743) (3 credits).

or

SEYS 790. A thesis based on original research in language or literature, directed by an adviser in Spanish (3 credits).

C. Students should meet with the Graduate Adviser as soon as possible to plan their program of study and submit it for approval.

Courses in Spanish

The specific topic in each course entitled “Studies in . . .” will be announced at registration. Each “Studies in . . .” course may be repeated for credit provided the topic is different.

701. History of the Spanish Language. 2 hr. plus conf.; 3 cr.
704. Problems in Spanish Language. 2 hr. plus conf.; 3 cr. Intensive study of problems in Spanish syntax, grammar, and other aspects of the language. The particular area of examination will vary according to the needs of the students. This course may be repeated for credit, provided the topic is different.
707. Medieval Spanish Literature. 2 hr. plus conf.; 3 cr. May be repeated for credit with permission of the graduate adviser if the topic is different.
709. Cervantes: Don Quijote. 2 hr. plus conf.; 3 cr.
710. Cervantes: Novelas Ejemplares and Other Works. 2 hr. plus conf.; 3 cr.
711. Spanish Fiction of the Siglo de Oro. 2 hr. plus conf.; 3 cr.
712. Spanish Poetry of the Siglo de Oro. 2 hr. plus conf.; 3 cr.
714. Theatre of the Siglo de Oro. 2 hr. plus conf.; 3 cr.
715. Spanish Baroque Literature. 2 hr. plus conf.; 3 cr.
718. Spanish Thought of the Sixteenth and Seventeenth Centuries. 2 hr. plus conf.; 3 cr.
725. The Literature of Spanish America: The Colonial Era. 2 hr. plus conf.; 3 cr.
726. Spanish-American Romanticism and Realism. 2 hr. plus conf.; 3 cr.
727. Modernismo. 2 hr. plus conf.; 3 cr.
728. Studies in Spanish-American Literature from the End of Modernismo to the 1940s. 2 hr. plus conf.; 3 cr. Study of the main trends in Spanish-American literature during the title period. May be repeated for credit with permission of the graduate adviser if the topic is different.
729. The Spanish-American Essay. 2 hr. plus conf.; 3 cr.
730. Contemporary Spanish-American Fiction. 2 hr. plus conf.; 3 cr.
731. Contemporary Spanish-American Poetry. 2 hr. plus conf.; 3 cr.
732. Spanish-American Theatre. 2 hr. plus conf.; 3 cr.
740. Spanish Romanticism. 2 hr. plus conf.; 3 cr.
741. Spanish Narrative in the Nineteenth Century. 2 hr. plus conf.; 3 cr.
745. Spanish Poetry of the Twentieth Century. 2 hr. plus conf.; 3 cr.
746. Spanish Theatre of the Twentieth Century. 2 hr. plus conf.; 3 cr.
748. Spanish Narrative of the Twentieth Century. 2 hr. plus conf.; 3 cr.
778. Advanced Translation in Spanish. 2 hr. plus conf.; 3 cr. The course will deal with translation in theory and in practice and will also include linguistics and stylistics. Translations will be from English to Spanish and from Spanish to English.
779. Studies in Spanish and Latin American Cinema. 4 hr.; 3 cr. The course will examine different aspects of the cinematic art. The approaches include: 1) Movements (neo-realist, new wave, etc.); 2) Genres; 3) Literature into films; 4) The cinema as a sociocultural phenomenon; 5) Cinematic stylistics. Films will be shown in the original language. Students will be expected to produce substantial works of film analysis.
780. Seminar in Hispanic Culture and Civilization. 2 hr. plus conf.; 3 cr. A study of the events and ideological trends of the civilization produced by Spain and Latin America. Students will read and report on primary texts in fields such as anthropology, archaeology, economics, and political history, and on significant artistic and cultural developments.
781. Seminar: Methodology and Selected Literary Topics. 2 hr. plus conf.; 3 cr.
782. Studies in Spanish and Spanish-American Literature. 2 hr. plus conf.; 3 cr. This course is intended as a seminar in the study of Spanish and Spanish-American literature. It is an open topics course; the title will be announced at the beginning of each semester in which it is offered. It can be repeated for credit provided the topic is different.
791, 792. Special Problems. 3 cr. each sem. Individual study under the supervision of an instructor, of a topic agreed on, normally involving research in literary history or criticism, and resulting in an acceptable thesis. No credit will be given for these courses until the thesis has been approved. No more than three credits in each course may be counted toward the degree.
795. Independent Study. Hr. to be arranged; 3 cr. Prereq.: Second-year standing and permission of the Graduate Adviser and the instructor. Tutorial for work in a special subject not covered by regular course offerings. May be repeated for credit if the topic is changed. Open only for candidates for the Master of Arts in Spanish.
The Master's Program in History can meet the academic requirement for permanent New York State teacher certification, and as an opportunity for students to upgrade their current job credentials and enrich their intellectual life. The department’s graduate faculty have outstanding records of publication in many areas.

Faculty

Warren, Frank A., Chair, Professor, Ph.D. 1961, Brown University: twentieth-century American history
Peterson, Jon A., Graduate Adviser, Professor, Ph.D. 1967, Harvard University: U. S. urban and immigration history
Allen, Joel, Assistant Professor, Ph.D. 1999, Yale University: Ancient history
Alters, Isaac, Professor, Ph.D. 1971, City University of New York: Jewish history
Cannistraro, Philip V. Distinguished Professor, Ph.D., New York University: Italian history
Carlebach, Elisha. Professor, Ph.D. 1986, Columbia University: Jewish history
Frangakis-Syrett, Elena, Professor, Ph.D. 1985, King’s College, University of London: modern Greek history
Freeman, Joshua B., Professor, Ph.D. 1983, Rutgers University: American labor history
Hershkowitz, Leo, Professor, Ph.D. 1960, New York University: New York City history, legal history
Hirshson, Stanley P., Professor, Ph.D. 1959, Columbia University: Civil War and reconstruction, U.S. 1877-1900

Kraut, Benny, Professor, Ph.D. 1975, Brandeis University: Jewish history
McManus, Edgar J., Professor, Ph.D. 1959, Columbia University: American colonial and constitutional history
Nadasen, Premilla, Assistant Professor, Ph.D. 1999, Columbia University: African-American history, African history
O’Brien, John M., Professor, Ph.D. 1964, University of Southern California: Medieval, church, Alexander the Great
Pine, Martin L., Professor, Ph.D. 1965, Columbia University: Italian Renaissance
Rossabi, Morris, Professor, Ph.D. 1970, Columbia University: Chinese history, Central Asian and Mongol history
Scott, Donald, Professor, Ph.D. 1968, University of Wisconsin: American cultural history
Syrett, David, Distinguished Professor, Ph.D. 1966, University of London: eighteenth-century Anglo-American military and naval history
Uppal, Jyotsna, Assistant Professor, Ph.D. 1998, Columbia University: south Asian history

M A S T E R  O F  A R T S  P R O G R A M

Within the Master’s program, the department follows the contemporary trend in going beyond a national and Western framework of study and employs a variety of approaches – political, economic, social, and intellectual – requiring a considerable methodological range. The department aims to acquaint students with the goals, methods, and results of historical research.

The department directs the attention of students to the possibilities of combining work in history with work in other departments and to the creation of individualized programs of study (to be arranged in consultation with the departmental Graduate Adviser). Attention is also directed to history courses that may be useful in related fields such as library science, museum management, historical preservation, and the like.

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

1. The applicant must be approved by the Department Committee on Graduate Studies. Approval is based on the satisfactory completion of sufficient work in history or related fields to pursue graduate work in history.

2. An applicant whose undergraduate preparation is considered inadequate by the Department Committee may be admitted as a qualifying nonmatriculated student. Satisfactory completion of approved courses will be required before the student can matriculate. Undergraduate courses taken to make up for inadequate preparation cannot be counted toward the M.A. degree. Graduate courses, provided they are approved by the Graduate Adviser, may be counted toward the M.A. degree. In some instances, students whose undergraduate preparation in history is judged inadequate may be required to take additional hours in graduate history to remove those deficiencies.

3. Applicants whose first language is not English and who were educated in a country where English is not the official language must submit proof of having achieved a score of 575 or better on the Test of English as a Foreign Language (TOEFL).

Departmental Regulations for the Master of Arts Degree

These requirements are in addition to the general requirements for the M. A. degree.

1. Usually no more than three courses of one semester each may be taken outside the Department of History and only with the written consent of the student’s Graduate Adviser.

2. Each student is assigned a Graduate Adviser with whom he or she plans the course of study.

3. A student must complete 30 hours of graduate history courses, which must include both a seminar and a course in historiography. The department recommends that the two required courses be completed as early as possible to avoid scheduling difficulties.

4. Each student must pass a comprehensive examination in the major field of study, and in such other fields as the department requires.

5. Each applicant must present evidence of a reading knowledge of a foreign language approved by the department and demonstrated to its satisfaction. The department currently accepts French, German, and Spanish, but with the written approval of the student’s adviser and the departmental Graduate Adviser, another language may be substituted if it is required for thesis research. (Students who contemplate further professional training in history are advised to check the specific language requirements for the doctorate at the universities of their choice.)

6. A thesis is required.

Courses for Master of Science in Education Degree

1. Candidates in this program should confer with a Department of Education adviser as to which history courses best meet the requirements of this program.

2. The Department of History offers two courses especially designed to strengthen the history background of M. S. in Ed students specializing in secondary social studies: History 795 and 797 (see course descriptions, infra).
Courses in History

Note: Prior to selecting courses for registration, students must check the courses listed below with department announcements distributed shortly before registration and with latest course offerings posted in the department.

701. Historiography. 2 hr. plus conf.; 3 cr. Studies in the methodology of historical investigations as evidenced in major works on history. Required of graduate students in the M.A. in history program. Spring

707. War in European History. 2 hr. plus conf.; 3 cr. Studies in history of European warfare from antiquity to the modern period.†

707.1. War in American History. 2 hr. plus conf.; 3 cr. Studies in the history of American warfare from the colonial period to the present. Emphasis will be placed on the growth and functions of American military institutions.†

710. Studies in Ancient History. 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in ancient history. Special emphasis is placed on historical method and interpretation.

713. The Church in the Middle Ages. 2 hr. plus conf.; 3 cr. The history of Christianity in Western Europe to the eve of the Protestant Revolution, with attention to the Church’s role in intellectual, social, and political life, and to Medieval religious organization, doctrine, and dissent.

714. Studies in Medieval History. 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in medieval history.

719. Studies in Modern French History. 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in recent French history.†

720. Studies in Tudor History. 2 hr. plus conf.; 3 cr. A study of political, economic, social, and religious institutions, with emphasis on the Tudor constitution.††

721. Studies in Stuart History. 2 hr. plus conf.; 3 cr. A study of political, economic, social, and religious institutions, with emphasis on the Puritan and Glorious Revolutions.††

723. Great Britain in the Victorian Age. 2 hr. plus conf.; 3 cr. Studies in the development of British political and social institutions and in the growth of British power during the Victorian period.††

724. Studies in Modern British History. 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in British history since the Victorian era.††

725. The World Wars of the Twentieth Century. 2 hr. plus conf.; 3 cr. Emphasis is on processes of change affecting the political, economic, and social structure of Europe, science and technology, and Europe’s international relationships.†

727. Europe and the Contemporary World: 1945 to the Present. 2 hr. plus conf.; 3 cr. Emphasis on West European recovery, the East European revolutions, the Cold War, the end of European colonial empires, and political and social problems raised by contemporary science and technology. Spring

732. Russian History to 1917. 2 hr. plus conf.; 3 cr. A study of the principal political and social developments in Russia from Peter the Great to the October Revolution.††

733. The Soviet Union. 2 hr. plus conf.; 3 cr. A study of political and social developments in Russia since the October Revolution.†

734. Women in Modern European History. 2 hr. plus conf.; 3 cr. Prereq.: Permission of instructor. This course is intended as an introduction to European women’s history from the Industrial Revolution into the post-World War II era. Readings concentrate on Britain, Germany, and France, and survey the general history of women in modern Europe, as well as outline recent methods of inquiry and topics of debate. The course takes a thematic approach within a (roughly) chronological framework.††

735. Studies in German and Central European History. 2 hr. plus conf.; 3 cr. Selected topics in German, Austrian, and East Central European history. Spring

736. Modern Italy. 2 hr. plus conf.; 3 cr. The development of modern Italy from the late 18th century to the founding of the postwar Italian Republic. The theme is the search for national identity. An examination of the rise of Italian national consciousness, the movement for unification, and the process of state-building, followed by a study of the Liberal State (1870-1915), including such issues as parliamentary development, the Southern Problem, and the rise of the Left. The course then looks at the rise of Fascism and Mussolini’s regime, World War II and the anti-Fascist resistance, and the origins of the Republic.

738. Chinese History in the Nineteenth Century. 2 hr. plus conf.; 3 cr. An examination of the political, social, and economic developments from the eve of the Opium War to the Boxer Uprisings.††

739. Chinese History since 1900. 2 hr. plus conf.; 3 cr. A study of important developments from the Boxer Uprisings to the present.††

742. History of Japan. 2 hr. plus conf.; 3 cr. Traces the major changes in Japanese history, with an emphasis on the more recent period.††

745. Studies in Latin American History. 2 hr. plus conf.; 3 cr. Readings and discussions of selected topics in the history of Latin America. Content will vary and, with permission of instructor and Graduate Advisor, the course may be repeated for credit.

747. The Political, Economic, and Social History of Latin America to 1825. 2 hr. plus conf.; 3 cr. A survey of the institutional, economic, and societal forces shaping Latin America from the discovery and conquest to the era of national emancipation.

748. The Political, Economic, and Social History of Latin America Since 1825. 2 hr. plus conf.; 3 cr. A survey of the institutional, economic, and societal forces shaping the nations of Latin America during the national period.

753. Studies in Brazilian History. 2 hr. plus conf.; 3 cr. Readings and discussions of selected topics in the history of Brazil.

756. Studies in Jewish History. 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in Jewish history. (Reading knowledge of either Hebrew or Yiddish is desirable but not required.)††

761. American Colonial Society. 2 hr. plus conf.; 3 cr. Studies of the English colonies in North America from the beginnings of exploration and settlement to the eve of the American Revolution. In the perspective of related European developments, stress is placed on political, social, and economic growth and transformation.††

762. The Era of the American Revolution. 2 hr. plus conf.; 3 cr. An analysis of the English and American scene from 1750 to 1789. The focus is upon the events leading to the American Revolution, the War of Independence, the framing of the Constitution, and the foreign and domestic affairs of the Continental Congress.††

763. The United States in the Early National Period, 1789-1828. 2 hr. plus conf.; 3 cr. An examination of the Federalist and Jeffersonian administrations of these years. Special attention is given to economic, ideological, sectional, and international problems that found expression in constitutional issues, the rise of parties, and early formulation of national policy.

766. Studies in Afro-American History. 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in the history of black people in America. May be repeated for credit with consent of instructor if topic changes. Spring

767. The Civil War and Reconstruction. 2 hr. plus conf.; 3 cr. An examination of con-
flitting interpretations of the causes of the war, the course of the war, and the problems of reconstruction.††

769. Studies in the Progressive Movement. 2 hr. plus conf.; 3 cr. An investigation of the sources of the reform impulse and its influence on American development from the Spanish-American War to World War I.††

771. The Depression and the New Deal. 2 hr. plus conf.; 3 cr. Political, social, and economic changes in the United States from 1929 to the outbreak of World War II.††

772. Making of the American Empire. 2 hr. plus conf.; 3 cr. A study of the role of foreign policy in the expansion of the United States from the Revolution to the Spanish War. Fall

773. The United States in World Affairs. 2 hr. plus conf.; 3 cr. The history of American foreign policy since 1895. The emergence of the United States as a world power, and selected problems in American diplomacy arising from war and peace in the twentieth century. Spring

774. History of American Business. 2 hr. plus conf.; 3 cr. The history of business in American life, emphasizing the development of organization systems and management techniques as well as the interrelation of business with other social institutions.††

775, 776. Constitutional History of the United States. 2 hr. plus conf.; 3 cr. each semester. The historical background of the Constitution and its evolution through the leading decisions of the Supreme Court. Emphasis will be given to the role of the Court in the development of the American federal system, the protection of rights guaranteed by the Constitution, and the jural theories under which the Court has operated. History 775 covers the period to 1865; 776 from the Civil War to the present. 775–Fall; 776–Spring

777. The City in American History to 1890. 2 hr. plus conf.; 3 cr. An examination of the origins, development, and significance of American cities and their role as “crucibles of culture” from the colonial era to the late nineteenth century.††

777.1. The City in American History since 1890. 2 hr. plus conf.; 3 cr. Studies in the transformation of the metropolis in twentieth-century America.††

783. New York City in the Colonial and Early National Periods. 2 hr. plus conf.; 3 cr. A study of the history, role, and influence of New York City during the formative years of American development. Attention is given to the principal archival and manuscript sources.††

784. Sources of New York City History. 2 hr. plus conf.; 3 cr. An intensive examination of the chief archival resources basic for the study of the early history of New York City. Research papers and reports are prepared and presented by the student.††

786. The American Urban Environment, 1830-1930. 2 hr. plus conf.; 3 cr. A history of the urban physical environment and the efforts to shape it since the early nineteenth century. Emphasis will be placed upon public health, civil engineering, landscape architecture, and city planning.††

790. Studies in the History of Africa. 2 hr. plus conf.; 3 cr. Readings and discussion of selected topics in the development of Africa from the early Bantu dispersals to the era of independence. With the consent of the instructor, the course may be repeated for credit.

792. Seminar in Latin American History. 2 hr. plus conf.; 3 cr. Prereq.: A reading knowledge of Spanish or Portuguese, and permission of instructor. Studies of a group of related topics chosen in consultation with the instructor. May be repeated for credit if the topic is different.††

795. Studies in European History. 2 hr. plus conf.; 3 cr. Studies of selected key issues and topics in European history and the historical debates about those issues. Stress is on methodology, interpretation, and the clash of opinion among historians. Topics vary each semester, and the focus may be Europe, the non-Western world, or points of contact and exchange between them. The course is required for graduate students in the M.S. in Education program in Secondary Social Studies Education. The course may not be repeated for credit.

796. Seminar in American History. 2 hr. plus conf.; 3 cr. Studies of a group of related topics chosen in consultation with the instructor. Scholarly techniques are emphasized, including methods of investigation and the use of original sources. Required of graduate students specializing in the field of American history.††

797. Studies in American History: Special Problems. 2 hr. plus conf.; 3 cr. Studies of selected key issues and topics in American history and the historical debates about those issues. Stress is on methodology, interpretation, and the clash of opinion among historians. Topics vary each semester, and the focus may be the United States, Latin America, or points of contact and exchange between them. The course is required for graduate students in the M.S. in Education program in Secondary Social Studies Education. The course may not be repeated for credit.

798. Individual Readings for Graduate Credit. Hr. to be arranged; 3 cr. With permission of the individual instructor concerned, the student’s adviser, and the Departmental Graduate Committee, a student may enroll for 3 hours of credit in a program of directed readings. This course is designed to supplement existing course offerings and is not proposed as a substitute for the more formal course and seminar work in a field of graduate study. Students requesting this course must be prepared to convince the Departmental Graduate Committee that it will form part of a logical sequence of professional preparation. Fall, Spring

799. Problems in History. 2 hr. plus conf.; 3 cr. New courses and graduate seminars in different fields are currently being offered. Consult the department before registration or see announcements on the History Department Bulletin Board.

Courses in Reserve

708. The Ancient Near East

709. The Classical World

711. Social and Economic History of the High Middle Ages

731. Studies in Modern European Intellectual History

740. Chinese Historiography

741. Studies in Modern Chinese History

743. Modern Mexico

754. The Caribbean World in the Twentieth Century

760. Studies in the History of Modern Science

765. Jacksonian Democracy

770. Main Currents in Modern American Thought

781. Studies in American Social, Intellectual, and Cultural History to 1870

782. Studies in American Social, Intellectual, and Cultural History since 1870

791. Introduction to Latin American Research and Historiography

†-Offered either Fall or Spring; see Class Schedule.
††-May be offered; see Class Schedule.
HOME ECONOMICS

THE COURSES PREVIOUSLY OFFERED BY THE HOME ECONOMICS DEPARTMENT ARE NOW OFFERED THROUGH THE DEPARTMENT OF FAMILY, NUTRITION, AND EXERCISE SCIENCES.

GRADUATE SCHOOL OF LIBRARY & INFORMATION STUDIES

Chair and Director of the School: Marianne A. Cooper

Graduate Adviser: Virgil L. Blake

Dept. Office: Rosenthal 254, 997-3790; fax 997-3797; e-mail: gslis@qcunix1.qc.edu; website: qc.edu/GSLIS

Faculty

Cooper, Marianne A., Chair and Director, Associate Professor, D.L.S. 1980, Columbia University: education for library and information science; management; special libraries and information centers

Blake, Virgil L.P., Graduate Adviser, Professor, Ph.D. 1985, Rutgers University: organization of information; school library media centers, technical services

Brody, Roberta, Assistant Professor, Ph.D. 1996, Rutgers University: business information sources; geographic information systems; reference services

Chelton, Mary K., Associate Professor, Ph.D. 1997, Rutgers University: adult reader advisory services; public libraries; young adult services

Chen, Shu-Hsien, Assistant Professor, Ed.D. 1991, University of Georgia: instructional technology; school library media centers; services for children and young adults

Cool, Colleen, Assistant Professor, Ph.D. 1997, Rutgers University: digital libraries; information science; research methods

Kibirige, Harry M., Associate Professor, Ph.D. 1979, University of Pittsburgh: information retrieval; information science; systems analysis

Ng, Kwong Bor, Assistant Professor, Ph.D. 1998, Rutgers University: information retrieval algorithms; knowledge organization and representation; text encoding standards and metadata schemes

Perry, Claudia, Associate Professor, Ph.D. 1995, Rutgers University: information science; new media, scientific and technical information sources

Smith, Karen P., Professor, Ed.D. 1982, Teachers College, Columbia University: literature for children and young adults; school library media centers; multicultural librarianship

Surprenant, Thomas T., Professor, Ph.D. 1979, University of Wisconsin at Madison: administration; distance learning; instructional technology

Warwick, Shelly, Assistant Professor, Ph.D. 1999, Rutgers University: information technology; intellectual property and privacy; multimedia information resources

Academic Librarianship Adviser

Bonk, Sharon, Professor and Chief Librarian, M.A. 1969, University of Minnesota: American studies, library science

Adjunct Faculty

Bright, Sandra K., Adjunct Lecturer, M.L.S. 1972, Rutgers University: organization and management; school library media centers

Friedman, Arthur, Adjunct Assistant Professor, M.L.S. 1978, Queens College; M.S.Ed. 1970, Indiana University: organization and management; media centers

Holden, Susan, Adjunct Lecturer, M.L.S. 1986, Long Island University: literature for children and young adults; public libraries

Kelly, Roger, Adjunct Instructor, M.L.S. 1992, Queens College; information technology; systems analysis

Levy, Anna, Adjunct Instructor, M.L.S. 1993, Pratt Institute: government information sources; social science information sources

Marcum, James Arthur, Adjunct Professor, Ph.D. 1970, University of North Carolina, Chapel Hill, M.S.L.S. 1991, University of North Texas: academic libraries; organization and management

Rasmussen, Rosemary, Adjunct Lecturer, M.L.S. 1974, Pratt Institute: information services for children and young adults; public libraries

Santon, Judit, Adjunct Instructor, M.L.S. 1974, Pratt Institute: abstracting and indexing; information organization

Sink, Robert, Adjunct Associate Professor, M.L.S. 1979, Pratt Institute, M.A. 1977, C.C.N.Y.: archives, records management

Strong, Gary, Adjunct Professor, M.L.S. 1970, University of Michigan: organization and management; public libraries

Watson, Duane, Adjunct Professor, Certifi cate in Preservation Administration 1985, Columbia University; M.L.S. 1981, SUNY Albany: preservation & conservation of materials

Introduction

Society’s ever-growing demand for information of all types and in all forms has changed forever the concept of librarianship. Library and information studies encompasses the full spectrum of knowledge, whether written on parchment or stored electronically, and its dissemination to professional and corporate audiences, to government personnel, to educators and students, as well as to the public at large.

The Committee on Accreditation of the American Library Association defines library and information studies to “be concerned with recordable information and knowledge and the services and technologies to facilitate their management and use. Library and information studies encompasses information and knowledge creation, communication, identification, selection, acquisition, organization and description, storage and retrieval, preservation, analysis, interpretation, evaluation, synthesis, dissemination, and management.” The Queens College Graduate School of Library and Information Studies endorses this definition.

Librarianship as an organized profession has a long tradition. The remains of libraries have been excavated from the ruins of ancient Egypt and Assyria. Academic libraries trace their lineage to late medieval times. Even public libraries, which we think of as an outgrowth of the mid-nineteenth century, had their prototypes among the Romans. Special and corporate libraries are largely twentieth-century developments, as are school library media centers. The emergence of national libraries signals a country’s intellectual “coming of age.”

Libraries have served many essential purposes. Among the earliest is the acquisition and organization of records. Since the monastic period, libraries have furnished resources in support of education. Later libraries served as publication centers. In time they assumed depository status under new copyright procedures, preserving important national publications.

Modern libraries and information centers have inherited these tasks while adding new functions. Their focus today is on user and community needs, including reference, information, instructional, referral, and advisory services. Improved access to both intellectual resources, through more refined methods of indexing, subject analysis, and retrieval, and physical resources, through more efficient storage and distribution, are equally important.

The technological revolution and the proliferation of information have transformed the roles of librarians and informa-
tion specialists by creating new challenges and exciting opportunities. Connecting people, ideas, and information through networks and information highways positions librarians to be pivotal protagonists in shaping the society of the twenty-first century.

History
The Graduate School of Library and Information Studies traces its origin to the opening of the Queens College Library Education Program in 1955. Conducted under the general direction of the College Library, in cooperation with the Education Department, that program offered a one-year curriculum for the preparation of school librarians. Graduates received an M.S. in Education, as well as a certificate in school librarianship. In 1964 a program in public librarianship was introduced, the Master of Library Science degree was authorized, and both the school and the public library programs were assigned to the new Department of Library Science, which had been organized as an independent academic department.

The Department continued to expand, and by 1968 graduates were beginning to work in a variety of information environments. The program also began to incorporate aspects of information science and media studies. The American Library Association first accredited the Queens College M.L.S. program in 1970. In 1976 a program leading to a Certificate of Post-Master’s Studies in Librarianship was introduced. Designed for graduate librarians, this program is registered by the New York State Education Department.

The expanding professional interests and objectives of the Department led in 1979 to a change of name and status, and the Department became the Graduate School of Library and Information Studies.

As the profession continued to move into the electronic age, the School has steadily expanded its curricular offerings to reflect the changing technological environment. Its quarters in the Benjamin S. Rosenthal Library point to continued dynamic growth and development.

The School is well equipped with modern technological facilities. Computer laboratories, with faculty and administrative offices are part of the campus and CUNY infrastructure that provides the latest software and access to the INTERNET. Thus instructional learning and the administrative needs of the faculty, students, and staff are well met. Additional technological facilities are available on campus.

The City University of New York and the Graduate School of Library and Information Studies have vigorously pursued the recruitment of a culturally and ethnically diverse student body and faculty. Presently, there are approximately 67 languages spoken on campus, which reflects the multicultural nature of New York City.

Mission
“Discimus ut serviamus.” We learn in order that we may serve. The motto of Queens College is equally appropriate for its Graduate School of Library and Information Studies, the only American Library Association accredited program for library and information studies within the City University of New York. The school prepares library/information service professionals to meet the information and literacy needs of the New York metropolitan region and beyond. It provides a quality education, in accordance with the prevailing state and national standards for the discipline. The school prepares graduates to serve a broad segment of the Metropolitan area’s multicultural, multilingual population in a variety of institutional and informational settings. Through research, publication, and other forms of scholarly activity, the school contributes and transmits new knowledge to society and the profession.

Goals and Objectives
The School offers students an intellectual and professional environment that emphasizes the knowledge, skills, and attitudes requisite for learning to function as professionals in the various roles offered by the information profession.

1. The School Will Provide:
   - The opportunity for students to understand the fundamental theories and practices of the discipline, enabling them to appropriately meet society’s changing information needs.

   The Students Will Be Expected To:
   a) acquire the principles of library/information services throughout history with an emphasis on applying them to changing global political, social, cultural, economic, and technological environments;
   b) learn the basis and practices underlying the creation, collection, storage, organization, dissemination, analysis, interpretation, and uses of information in all formats;
   c) understand theoretical and practical aspects of management essential to the effective operation of libraries and information centers;
   d) recognize the importance of the right of access to information in order to maintain an open society and to accept the professional responsibilities involved in upholding that right;
   e) consider opportunities to participate in fieldwork experience under the supervision of faculty and the professional staff of cooperating libraries, information centers, and other information-based organizations;
   f) explore the wide range of career options available to library/information service professionals.

2. The School Will:
   - Raise students’ awareness of the importance of knowing and participating in the communities they serve, developing community-related programs and communicating effectively.

   The Students Will Be Expected To:
   a) recognize the need to establish working relationships with various community-based groups to help them improve services to their clientele;
   b) understand the necessity of conducting a community analysis in order to continuously monitor the information needs of the clientele the library/information center serves;
   c) learn the role of formally constituted networks of information-based agencies in meeting the information needs of the library/information center’s clientele;
   d) know the importance of the communication process and develop the requisite skills for professional interactions with users, colleagues, administrators and support personnel in a culturally diverse and dynamic society;
   e) communicate effectively orally and in writing.

3. The School Will Provide:
   - A technologically rich teaching/learning environment in which students will be able to attain the requisite competencies needed to effectively participate in the continuously evolving electronic age.

   The Students Will Be Expected To:
   a) assess, select, and use appropriate technologies for the effective delivery of information services that libraries, information centers, and other information-based agencies provide;
   b) be prepared to instruct their clientele in the use of information technologies.

4. The School Will Provide:
   - A climate that fosters a reflective, critical, and analytical approach to problem-solving while stressing innovative and ethical responses to society’s changing information needs.

   The Students Will Be Expected To:
   a) develop an open-minded attitude towards the change process and exercise professional judgment as to its feasibility and desirability;
   b) understand the ethical issues related to the provision of information;
   c) apply ethical standards in their interactions with clients, colleagues, administr-
tors, and support personnel within the library/information center:

d) select appropriate strategies to fulfill the needs of their clientele, and to evaluate the outcomes.

5. The School will:
Facilitate recognition of the increasingly multicultural, multilingual, multiethnic, interdisciplinary, and global nature of the discipline.

The Students Will Be Expected To:

a) recognize their professional responsibilities toward the multicultural, multilingual, and multiethnic staff and clientele;

b) be able to respond to the unique information needs of special users, e.g., the economically disadvantaged and physically challenged;

c) recognize developments in disciplines related to, and having an influence on, library/information services.

6. The School Will:
Promote and further the goals of the discipline of library/information studies through teaching, faculty research and publishing, and participation in the activities of professional associations locally, regionally, nationally, and internationally.

The Students Will Be Expected To:

a) understand the importance of contributing to the global advancement of the profession through participation in the research process, oral presentations, publications, and professional activities.

Student Services and Awards
An active student organization serves the student body through an online discussion group, by publishing a newsletter, and through various professional and social programs. Student chapters of the American Library Association and the Special Libraries Association sponsor programs of professional and social interest, and the Alumni Association supports the school through fund-raising and by informing graduates of new developments and career opportunities.

The School, at its graduation ceremony, honors outstanding students with four awards: the Lori Fischer Award for the student with the highest grade-point average; the Linda Richardson Award in recognition of the student emulating the personal and intellectual qualities of Linda Richardson; (3) the David Cohen Multicultural Award honoring the student or alumnus(a) who has exhibited a firm commitment to serving multicultural, multiethnic, and multilingual minorities; and the Betsy Movchine Award for the student who has contributed most to the betterment of student life in the past year. The Distinguished Alumnus/Alumna Award recognizes a graduate’s significant contribution to the discipline and the profession.

Admissions Policies and Procedures
Students may be admitted to the Graduate School of Library and Information Studies on a matriculated or a non-matriculated basis. The School admits students for both the Fall and Spring terms. Since deadlines for applications for each semester may vary, please visit the School’s website or telephone the GSLIS office for current information. Applications may be obtained from the website, the School and the Graduate Admissions Office.

Admissions Requirements for Matriculation
The following are required for admission to the Master of Library Science program:

1. A baccalaureate degree or equivalent from a college of recognized standing. An official transcript of undergraduate and graduate credits from all institutions attended must be sent directly to the Graduate Admissions Office.

2. An undergraduate record indicating good preparation in the humanities, sciences, and social sciences. Good preparation is interpreted to mean a minimum academic index of B (3.0) in work relevant to the library science program. Applicants who do not meet the minimum requirements of good preparation as stated above are invited to present other evidence of their potential for successful graduate study.

3. Three letters of recommendation attesting to the applicant’s capacity to complete successfully a program of graduate studies.

4. A typed essay of at least 500 typewritten words indicating applicant’s background and career goals. The essay must provide evidence of clear and grammatical writing.

5. Proof of proficiency in the English language is required of all applicants whose first language is not English, and who were educated in a country where English is not the official language. This requirement is not based upon country of citizenship or permanent residency, but on the two stated conditions. Such applicants must fulfill this requirement by taking the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service. A score of at least 550 on the TOEFL is required for admission to the School. Score reports must be received before a student can be admitted. Those whose score falls below 600 will be required to take and pass the graduate College English as a Second Language (CESL) course, which does not count for graduate work.

6. Applicants whose undergraduate grade-point average is below 3.0, but who otherwise merit consideration for admission, may be required to take the Graduate Record Examination (GRE).

7. Applicants with undergraduate GPA’s below 3.0 who hold advanced degrees are not required to take the GRE.

8. Admission to the school media specialist (library) program (604) requires that the applicant has either a permanent, provisional or initial New York State Teaching Certificate.

9. An interview with the Director of the School, the Graduate Adviser, or a member of the School’s Admissions Committee will be required before a decision on admission is made.

10. Competency in word processing is required. Students may be admitted without this competency, but must acquire it before the end of their first semester. Faculty will accept only word-processed papers.

The Committee on Admissions of the Graduate School of Library and Information Studies reviews the qualifications of all candidates for admission. Openings will be filled on a competitive basis: admission cannot be guaranteed to all who meet the stated requirements. All required documentation must be sent to the Graduate Admissions Office.

Matriculation
Applicants who meet all requirements may be allowed to fully matriculate. This, however, as noted above, cannot be guaranteed.

Acceptance for Matriculation with Conditions: Under certain circumstances, students with an undergraduate average marginal below B may be matriculated under the condition of “Probation.” A student admitted on probation must achieve a B (3.0) average in the first 12 credits of graduate work. Students admitted on probation who fail to attain fully matriculated status after completing 12 graduate credits will not be permitted to continue.

Continuous Matriculation
Students are expected to maintain a continuous matriculation. Those who do not wish to register for course work in a given semester should notify the School in writing as soon as possible.

There is no official “leave of absence” classification for graduate students at Queens College. Students who do not register for a given semester are considered inactive. Such status is not noted on the official transcript and does not extend the time limit for the degree or certificate (four years for completion). Inactive students who wish to return to the School must file a Reentry Application with the Office of Graduate Admissions at least six weeks before the semester of return. A reentry fee is required.
A student who has completed 36 credits toward the master’s degree but who has not maintained a B average must obtain permission from the Office of Graduate Studies to register for additional courses to raise the grade-point average. Such courses must be taken at Queens College. A student will lose matriculated status when it becomes mathematically impossible to achieve a B average in the allotted 36 credits.

A student must be registered for the semester in which the degree is awarded.

Non-Matriculated Status
Some students may register in the School as non-matriculants with permission of the Graduate School of Library and Information Studies. Students who are fully matriculated in another accredited library school may, with permission from their home institution and from the Director or Graduate Adviser of the GSLIS, register for individual graduate library science courses. Selected applicants who do not qualify for matriculated status may be admitted as non-matriculants with the approval of the Graduate Adviser. Courses taken as a non-matriculated student may be credited toward the M.L.S. degree if a grade of B (3.0) or better is attained. A non-matriculant wishing to matriculate may have a maximum of 12 credits accepted toward the degree by the School.

A student who has been awarded the M.L.S. degree and wants to enroll for additional courses must file an application for admission as a graduate non-matriculant with the Graduate Admissions Office by the appropriate deadline date.

Registration
All students may register only after their program has been approved by a faculty member.

All registration takes place in person at the GSLIS office. All approved matriculated and non-matriculated students will receive instructions from the Graduate Admissions Office and the Graduate School of Library and Information Studies regarding dates and times.

Academic Requirements
The curriculum has been designed as a coordinated, sequential program. Two major components comprise the curriculum: the required basic program – a group of core courses integrating the subject matter common to the field – and the elective program of specialized and advanced courses. Within this structure it is possible to design a generalist program for the student who does not want to specialize, as well as specialized single- or multi-purpose programs as described below. Specialized programs may include courses in other departments at Queens College and at other units of the City University of New York. The curriculum also provides opportunities for internship experiences and independent study.

Requirements for the Master of Library Science Degree
The program of courses leading to the Master of Library Science degree consists of 36 credits completed with an overall average of at least B (3.0 index). All requirements for the degree must be completed within four years after admission to the program or four years after the first course was credited, including credits earned as a non-matriculant or credits transferred. Extensions of time may be granted under compelling circumstances. The M.L.S. degree is offered in two programs: School Media Specialist (Library) (604) and General (602). For regulations on non-matriculated status (950 program), contact the School.

Basic Core Sequence
The basic sequence consists of five courses required of all students. All entering students are expected to complete the following four core courses at the start of their studies:

- GLIS 700 The Technology of Information
- GLIS 701 Fundamentals of Library and Information Science
- GLIS 702 Information Sources and Service: General
- GLIS 703 Introduction to Technical Services

Research Project
GLIS 709 Research and Bibliographic Methods
In addition to the four courses above, all students must complete this fifth required course, which includes a research project, only after completion of at least 21 credits. The student’s project report must give evidence of ability to integrate knowledge obtained from the individual courses constituting the M.L.S. program. Satisfactory completion of a research project is mandated by the New York State Department of Education for receipt of the M.L.S. degree.

Students who have previously completed a master’s thesis may apply to fulfill this requirement in GLIS 791: Independent Study. Students who believe they are eligible to take GLIS 791 should consult with the Graduate Adviser to obtain approval at the outset of their program.

Programs for Specialization
Beyond the five required courses in the basic sequence, a variety of courses reflecting special areas of interest in library and information studies are offered. New courses are continuously added to further enrich the curriculum. Students should consult faculty advisers on the choice and scheduling of such courses.

The M.L.S. degree program does not require, except for specialization in the School Media Specialist (Library) Program, particular specialized offerings. The School Media Specialist (Library) Program (604), leading to New York State certification, has previous professional education requirements as noted above.

For all other students in the M.L.S. program (602), specialized courses are available for professional interests including types of libraries and information-related agencies, functions within them, types of users, and media. Types of libraries may include public, academic, research, and special libraries, as well as information-based agencies such as archives, database producers and vendors. Functions may include administration, reference/information services, web-based and other technical services. The types of user category may include children and young adults, and those in the corporate and the not-for-profit environments.

Queens College permits up to 12 graduate credits to be taken outside of the School. Such courses must have the prior approval of the Graduate Adviser as well as of the other department or institution and must be appropriate to the student’s program for the M.L.S. degree.

School Media Specialist (Library) Program Requirements
Students who choose this specialization must have, prior to admission, either a permanent, provisional, or initial New York State Teaching Certificate.

The program emphasizes the development of skills needed to evaluate and select materials relevant to the information needs of the K–12 school community, to motivate and guide students in these settings in the use of information and materials and to foster collaborative partnerships with the school’s faculty and staff.

Graduates designated as School Media Specialists (Library) are associated with media centers attached to educational institutions. In this context, they serve the needs of students (K–12) and parents for informational, educational, and recreational materials as well as the needs of teachers, administrators, and other personnel seeking information and materials related to their professional responsibilities. By definition, School Media Specialists (Library) must be competent in matching the most appropriate communication media to instructional, developmental, and recreational needs.

Thirty-three credits of this program are required, thus leaving only three credits (one course) as elective.

Following completion of all courses for
graduation, Queens College will forward all required materials to the New York State Department of Education for securing the individual’s certification.

**Required Courses for School Media Specialist (Library)**

In addition to the basic core requirements described above, the following courses are required:

- **GLIS 705** Organization and Management
- **GLIS 737** Literature for Children and Adolescents
- **GLIS 761** Organization and Management: Media Centers
- **GLIS 763** Nonbook Materials: Sources and Service
- **GLIS 765** Resources for the School Curriculum
- **GLIS 767** Reading Motivation Techniques for Children and Adolescents
- **GLIS 795** Internship (150 hours of practicum)

All students must complete 16 hours of fieldwork in each of GLIS 763, GLIS 765, and GLIS 767. Two hours of fieldwork are required in GLIS 705 or GLIS 761.

**CERTIFICATE OF POST-MASTER’S STUDIES IN LIBRARY/INFORMATION SERVICES**

The program leading to the Certificate in Post-Master’s Studies in Library/Information Services is designed for graduate librarians who want to improve their competencies in present positions or to prepare for new positions as administrators, subject specialists, information officers, or technical specialists in libraries and related organizations, including media, educational resources, information, and referral centers.

The one- to three-year 30-credit program will be individually designed by each student with a faculty member in accordance with the curriculum described in this Bulletin. An integral part of the program will be a major research or investigatory project in the student’s field of interest. The program is registered by the New York State Education Department.

**Admission Requirements**

- A master’s degree in Library and Information Studies from an American Library Association (ALA) accredited library school.
- A minimum of two years of professional experience in library/information services or evidence of highly specialized needs that warrant advanced studies.

- An interview with a representative of the School.
- A 500-word statement of the candidate’s professional objectives, specifying his/her special needs or interests.
- Three letters of reference from library/information service professionals and/or instructors in library and information studies.

**Specialization**

An individually tailored program will be formulated by each student and his/her faculty adviser, in accordance with the curriculum. Areas of specialization may include:

- Academic and Research Librarianship
- Health Sciences Librarianship
- Information Systems Design & Management
- Literature for Children and Young Adults
- Multicultural Librarianship
- Public Librarianship
- Reference-Information Services
- School Media
- Special Libraries Information Centers
- Technical Services
- Work with Children and Young Adults
- Electronic Resources and Services

**General Requirements**

The Certificate in Post-Master’s Studies in Library/Information Services will be awarded upon the completion of ten three-credit courses with a grade in each course of B or better. Each course must be part of an approved program of studies which includes the preparation of an independent research project or an independent special project. All requirements must be completed within a three-year period.

**Scholastic Standards**

**Grades**

The following grades are used in the Graduate Division of Queens College: A+, A, A-, B+, B, B-, C+, C, C-, F. The following special grades are also used:

- **W** (Withdrawn Passing): This grade is given when a student withdraws formally after the eighth week of the semester with a passing grade in the course work completed.
- **WF** (Withdrawn Failing): This grade is given when a student withdraws formally after the eighth week of the semester with a failing grade in the course work completed.
- **WU** (Withdrawn Unofficially): This grade is given when the student ceases to attend classes without formally withdrawing from the course. WU is equivalent to a failure.
- **P** is a passing grade that is valid only in those few courses designated as permitting this grade.
- **Z** is a temporary grade assigned when an instructor does not submit a grade.
- **Audit (Aud.)** indicates that a student registered and paid for a course and attended classes, but was not required to do course work and will receive no credit for the course. Courses that have been audited may not later be repeated for credit, nor will credit be granted for an audited course.

**Incomplete Work**

The following grades apply to incomplete work:

- **Incomplete (Inc.):** This grade, which must be requested by the student, is given by the instructor to indicate that a student had made a satisfactory record in course work but, for good and sufficient reason, is unable to complete the course. A graduate student receiving this grade must complete the work of the course by the end of the next two regular semesters in attendance. Requests for extensions of this time limit must be addressed to the Office of Graduate Studies (Powdermeker Hall, Room 100K). If the work of the course is not completed, the grade remains on the transcript without penalty.
- **Absent (Abs.):** This is a temporary grade indicating that the student missed the final examination, which was the only work in the course that was not completed. The **Absent grade is given only when it is expected that the student will be able to achieve a passing grade in the course by taking a makeup examination. A graduate student receiving this grade is required, with the permission of the departmental chair, to take a makeup final examination by the end of the next two regular semesters in attendance. A fee of $15 is charged when a special makeup examination is given.

**Withdrawal Procedure**

Withdrawals during the first eight weeks are considered program adjustments, and no special approval is required. Students who wish to withdraw from a graduate course after the eighth week of the semester must do so formally by filing a Course Withdrawal form in the Registrar’s Office.

Note that a course dropped during the first three weeks of the semester may result in refund of some portion of the tuition fee. The activity fee is not refundable unless the student has formally withdrawn from classes prior to the official first day of classes.

- **Note:** Students may not graduate with an unresolved grade of Abs. on the record.

**Important Note Regarding Completion of Courses**

Full-time graduate students who are eligible to receive New York State Tuition Assistance Program (TAP) awards for the first time in Fall 1981 or thereafter must meet the program and academic progress requirements to be considered in good academic standing. The penalty for loss of good academic standing is suspension of the award. (Refer to Financial Aid, pages 22-26.)
Required Grade Average, Probation, and Dismissal

All programs must be completed with a minimum average of at least B (3.0). A matriculated graduate student whose grade-point average falls below 3.0 during the course of the program will be placed on probation. The student will then have up to 12 graduate credits within which to raise the grade-point average to 3.0. If this level is not achieved, the student will be dismissed. A matriculated graduate student who is dismissed must remain out of the College for at least one semester. If such a student wishes to return, the student must file a formal application for reentry and pay a nonrefundable reentry fee by the appropriate deadline. The student must also petition the Office of Graduate Studies for permission to reenter. Requests for reentry will be reviewed on an individual basis.

If a student is required by the College to leave a program a second time, for any reason, the student will not be permitted to reenter.

Students who have completed the total credits required by their degree or certificate program may not take additional credits at another institution to raise the grade-point average. At the completion of the total credits allotted to a program, if a student does not have a 3.0 average and wishes to register for additional courses at Queens College in order to raise the grade-point average, permission to do so must be obtained from the Office of Graduate Studies. Courses taken at other colleges are not computed in the grade-point average.

Transfer Credits

Courses offered for transfer credit must be closely related to the goals of the library science program and to the individual’s career objectives. Such courses must be consistent with an approved program of studies for each student. Courses that are not appropriate will not be accepted.

Determination of specific course eligibility for transfer credit rests with the Graduate Adviser in consultation with the appropriate specialization adviser(s). The regulations below are maximal allowances and are not mandatory:

- Request for transfer of credit must be initiated by a student during the first semester’s course work in the library science program. Students are required to complete a Request for Transfer of Credit form, which may be obtained from the Graduate School of Library and Information Studies.
- Courses to be considered for transfer of credit must be taken within the four-year time limit required for the completion of the degree.
- Courses applied toward any degree already granted, graduate or undergraduate, cannot be considered for transfer purposes.

Undergraduates at Queens College who have completed library and information studies courses will be given credit for such courses, providing the total number of credits accumulated for the baccalaureate degree exceeds the requirements for graduation.

- Courses taken at institutions other than Queens College must have prior approval in order to be applied as credit toward the M.L.S. degree.
- Only courses with a grade of B (3.0) or better may be transferred.
- A maximum of 12 credits may be considered for transfer credit for graduate work satisfactorily completed elsewhere.

Courses

700. The Technology of Information. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. This course will introduce the student to the conceptual and practical elements of visual and computer literacy for the library and information science profession. Particular attention will be paid to their place and role in libraries and information centers. A laboratory session following each class will give students the opportunity to apply some of the concepts learned in class and to learn and strengthen basic skills.

701. Fundamentals of Library and Information Science. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Overview of the curriculum; historical introduction to librarianship and information science as a profession; professional literature; role and structure of libraries and information centers in the conservation and dissemination of knowledge to various clientele; nature of research in library and information science. Fall, Spring

702. Information Sources and Service: General. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Study and application of general reference, bibliographic, and other information sources (print and electronic); techniques and procedures for serving the needs of various clientele; criteria for evaluating these sources and service and for developing appropriate collections. Fall, Spring

703. Introduction to Technical Services. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. The focus will be on the principles of providing access to items using the current cataloging code and the provision of subject access to items through subject headings lists and classification systems. Study and practical exercises in all areas of technical services. Fall, Spring

705. Organization and Management. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq. or coreq.: GLIS 700, 701, 702, 703. Fundamentals of administration; functions of management (planning, organizing, staffing, controlling, and communicating) in various types of libraries and information centers.

709. Research and Bibliographic Methods. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703, and completion of 24 course credits. Survey of research methods in library and information studies; supervised individual project to fulfill research requirement of the New York State Department of Education. Fall, Spring

711. Collection Development. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Design of collection policy; criteria for selection and maintenance; evaluation techniques; resource sharing; organization and management of collection development.

713. Information Sources and Service: Science and Technology. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Study and application of reference, bibliographic, and other information sources (print and electronic) in science and technology; techniques and procedures for serving the needs of various clientele; criteria for evaluating these sources and service and for developing appropriate collections.

715. Information Sources and Service: Social Sciences. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Study and application of reference, bibliographic, and other information sources (print and electronic) in the social sciences; techniques and procedures for serving the needs of various clientele; criteria for evaluating these sources and service and for developing appropriate collections.

717. Information Sources and Service: Humanities. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Study and application of reference, bibliographic, and other information sources (print and electronic) in the humanities; techniques and procedures for serving the needs of various clientele; criteria for evaluating these sources and service and for developing appropriate collections.

719. Government Information Sources. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Structure of the U. S. government in relation to its official publications; selection, acquisition, organization, and use of federal documents of the United States, with some attention to American state and municipal documents, as well as foreign and United Nations publications; print and electronic access.

721. Advanced Technical Services. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr.
Prereq.: GLIS 700, 701, 702, 703. A survey course including several ancillary activities required for maximum access to the materials in a library collection. Principal topics are acquisitions, circulation policies and procedures, preservation and conservation, online public access catalogs, interlibrary loan procedures, and the administration of the technical services department.

723. Problems in Organization of Materials. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Advanced problems in cataloging and subject analysis applying AACR2, Dewey, and Library of Congress systems; cataloging and subject analysis for new and special types of materials; utilization of centralized and automated processing; comparative study of other cataloging and subject analysis techniques; individualized student projects.

725. Bibliographic Control of Non-Print Materials. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq. or coreq.: GLIS 700, 701, 702, 703. The course will introduce the principles of bibliographic control as they are applied to non-print materials in libraries and other information agencies. Topics covered include the background and development of current practices, bibliographic description of the full range of non-print materials, and subject access.

727. Serials Librarianship. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq. or coreq.: GLIS 700, 701, 702, 703. This course will address problems in serials librarianship for all types of libraries, covering purposes, organization and arrangement, collection development and acquisitions, bibliographic control and cataloging, reference tools and subject access, administration, budgeting and accounting, and personnel.

731. Development of Books and Printing. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Early writing systems; manuscripts and other forerunners of the typographic book; the hand-produced book and related arts; the impact of the steam press; new printing processes growing out of twentieth-century technology.

732. Archives and Manuscripts. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. This course provides an introduction to the theory and practice of managing archives and manuscript collections. The course will cover the theoretical basis for preserving and using historical records, the role of the archivist, and the various types of archives and manuscript repositories as well as the techniques of acquisition, arrangement, description, preservation, reference work, and the handling of special formats, such as photographs, moving images, sound recordings, and electronic records.

733. Fundamentals of Library Conservation and Preservation. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. This course surveys the threats to unique materials in the library/information center’s collection and introduces the basic methods employed to ensure the survival of these materials. The focus is on in-house procedures and techniques. Administration of the conservation/preservation program and emerging technologies are included. A materials fee will be charged.

734. Art Librarianship. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Survey, evaluation, and application of reference and bibliographic resources (print and electronic) in the visual arts; techniques and procedures for serving the needs of various clientele; special issues in art and museum libraries.

735. History of Children’s Literature to the Twentieth Century. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. The development of literature for children in Great Britain and North America, with major emphasis on the period from 1700 to 1900.

736. Records Management. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. This course will examine the history of recordkeeping: the records and information needs of businesses, nonprofits, and governments; records management theory and practice; and the challenge posed by electronic records.

737. Literature for Children and Adolescents. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Introduction to forms and types of literature; criteria for excellence; techniques for analysis and evaluation; and identification of appeal and suitability for different types of readers.

739. Literature for the Young Adult. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Survey of literature written for young people ages 12–17, includes historical development of the field, discussion of the specific genre, and consideration of the reading interests and needs of the young adult.

740. The Information Environment in Contemporary Society. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. An introduction to information products and services and how they relate to societal issues. The following will be studied: the interdisciplinary nature of research, industries that generate information products, human communication, information networks, the economics of information, intellectual property issues, and information policy.

741. Information Systems Analysis and Design. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. This course is designed to provide students with an understanding of the concepts and methodology of systems analysis both organizational and automated. The course emphasizes problem-solving and decision making skills and developing criteria for judgment. Current and developing uses of automation in libraries and information centers will be discussed and demonstrated.

743. Information Access Systems: Indexing, Abstracting, and Other Access Systems. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Introduction to the theory, methodology, and implementation of text-based access systems. Identification, selection, and organization of concept-bearing terms to generate patterns for document analysis, storage and information retrieval. Both manual and electronic information systems will be used to demonstrate patterns of storage and retrieval including graphics user interfaces, indexes, abstracts, and thesauri.

745. Online and Optical Information Systems. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. The course will cover the structures, content, acquisitions, and search methods of the following three types of databases: remote online databases obtained through a vendor, locally loaded databases available through campus or organizational computer installations, and locally stored databases on stand alone or networked optical devices. At least three hours of supervised online searching. A materials fee will be charged.

747. Selected Technology Applications in Information Management. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. The goals of this course are, first, to introduce students to some of the latest developments in information technology of immediate relevance to information professionals; second, to provide students with hands-on laboratory experience of the systems selected. Units and contents offered may be changed from time to time to reflect new developments to the information arena.

749. Libraries and the Internet. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. This course will introduce the student to the Internet on both a conceptual and practical basis. Special attention will be directed to the utilization of the Internet in libraries and information centers and to its overall societal
problems and promise. A series of exercises will provide the student with the rudiments of access to and use of the Internet.

751. The Design and Evaluation of Visual Information. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Introduction to the techniques and tools used in the planning, production, and evaluation of multimedia visual displays of information. Special attention will be devoted to Internet web pages and ways of presenting statistical and qualitative information in multimedia.

753. Digital Libraries. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Introduction to the emerging concept of the digital library; historical developments; current digital library projects and initiatives; issues involved in building, preserving, and maintaining access to digital collections, and social and economic issues.

761. Organization and Management: Media Centers. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Organizational structure, theory, and managerial practice of libraries emphasizing nonbook materials; standards, personnel, budget, selection, information, and technical service.

763. Nonbook Materials: Sources and Service. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Evaluation, selection, and utilization of nonbook materials and technology to serve the library/information needs of all students, including those with special needs; faculty regardless of specialization; and to foster information literacy skills including cooperative programs with teachers, school library media centers, and other types of library and information agencies.

765. Resources for the School Curriculum. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Selection, evaluation, and utilization of instructional materials to support the curriculum on all grade levels. Special attention will be given to teacher-librarian collaboration and current educational developments in literacy and innovative programs for students with special needs.

767. Reading Motivation Techniques for Children and Adolescents. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Development of techniques and skills, to include collaboration with faculty in reading guidance; aspects covered include individual performance and group criticism of book talks, storytelling, and multiple reading. Strategies to work with faculty with responsibilities for literacy and students with special needs are components of the course.

771. Organization and Management: Public Libraries. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Introduction to key elements of organization and management, including personnel, services, public relations, budgeting, and building construction/renovation.

773. Public Library Services for Children. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703, or permission of instructor. Planning and applications of public library services for children. Topics include program planning, collection development, community networking, management issues, and training.

775. Librarianship in a Multicultural Society: Materials and Services. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Evaluation, selection, and utilization of book and non-book materials to serve minority and ethnic clientele; traditional and innovative approaches to programming. Spring

777. Planning and Delivering Young Adult Services in the Public Library. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. An overview of contemporary public library services for adolescents, with an emphasis on how to conceptualize or customize services that meet the developmental needs of this age group, while flourishing within organizational, political, and community cultures.

780. Organization and Management: Academic and Research Libraries. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Structure of academic and research libraries in relation to their functions and clientele; standards, personnel, finance, buildings, and equipment; services; networking and community relations; automation; reporting; public relations.

781. Organization and Management: Special Libraries and Information Centers. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Organization and management of special libraries and information centers in corporate, governmental, institutional, and academic settings; effect of the environment on each library’s functions.

784. Health Sciences Librarianship. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703, and permission of the School. All phases of medical and allied health sciences librarianship, with emphasis on medical community relationships; use of reference materials; current information-retrieval systems; and the selection and control of serial, monographic, and non-print materials in biomedicine; online experience with computerized bibliographic retrieval.

786. Business Information Sources. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Survey, evaluation, and application of information sources in business and finance; techniques and procedures for serving the needs of various clientele; special issues in corporate information centers.

788. Law Librarianship. 2 hr. plus supervised lab. and/or conf. hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703. Survey, evaluation, and application of legal research; special issues in law librarianship.

790. Seminar. 1 hr.; 1 cr. Prereq.: GLIS 700, 701, 702, 703, and permission of the School. Topics to vary from semester to semester, according to trends and developments in the profession; announcements to be made in advance.

790. Seminar. 2 hr.; 2 cr. Prereq.: GLIS 700, 701, 702, 703, and permission of the School. Topics to vary from semester to semester, according to trends and developments in the profession; announcements to be made in advance.

790. Seminar. 3 hr.; 3 cr. Prereq.: GLIS 700, 701, 702, 703, and permission of the School. Topics to vary from semester to semester, according to trends and developments in the profession; announcements to be made in advance.

791. Independent Study. Hr. to be arranged; 3 cr. Prereq.: GLIS 700, 701, 702, 703, and permission of the School. Pursuit of a particular research or investigatory project under the direction of a member of the School faculty; admission by special application.

795. Internship. Fieldwork; hr. to be arranged; 3 cr. Prereq.: GLIS 700, 701, 702, 703, and permission of the School. Experience in a library or information agency approved by the School under the direct supervision of an experienced librarian or information specialist and in accordance with a program jointly approved by the School and the supervisor. Students in the school media specialist (library) program will complete a minimum of 50 clock hours of experiences in elementary and secondary school library/media centers, and two practica of at least 10 days each in elementary and secondary school library media centers.

*Indicates a variable title.
LINGUISTICS & COMMUNICATION DISORDERS

Chair: Helen S. Cairns

Associate Chair and Director of Graduate Programs in Linguistics: Robert M. Vago

Associate Chair and Communication Disorders Program Director: Arlene Kraat

Coordinator of Graduate Programs in Communication Disorders: Sima Gerber

Dept. Office: Kissena 347, 997-2870

The Department of Linguistics and Communication Disorders offers degrees for the Master of Arts in Speech-Language Pathology: the Master of Arts in Applied Linguistics; and the Master of Science in Education Degree in Teaching English to Speakers of Other Languages (TESOL), as described below.

Faculty

Cairns, Helen S., Chair, Professor, Ph.D. 1970, University of Texas: adult psycholinguistics, language development in the child

Vago, Robert M., Associate Chair and Director of Graduate Programs in Linguistics, Professor, Ph.D. 1974, Harvard University: phonology and language attrition

Kraat, Arlene, Communication Disorders Program Director, Associate Professor, M.A. 1970, University of Indiana: augmentative communication

Gerber, Sima, Coordinator of Graduate Programs in Communication Disorders, Assistant Professor, Ph.D. 1987, City University of New York: pragmatics, child language

Cairns, Charles E., Professor, Ph.D. 1968, Columbia University: phonology, psycholinguistics, adult literacy

Fiengo, Robert W., Professor, Ph.D. 1974, Massachusetts Institute of Technology: syntax and the acquisition of syntax

Gelfand, Stanley A., Professor, Ph.D. 1973, City University of New York: speech perception, acoustic immittance, reverberation

Grazio-King, Janine, Assistant Professor, Ph.D. 1999, City University of New York: first and second language acquisition

Halper, Harvey, Professor, Ph.D. 1962, New York University: speech and language problems of brain-injured adults

Klein, Elaine C., Associate Professor, Ph.D. 1990, City University of New York: TESOL and applied linguistics

Martohardjono, Gita, Assistant Professor, Ph.D. 1993, Cornell University: TESOL and applied linguistics

Newman, Michael, Assistant Professor, Ed.D. 1993, Teachers College, Columbia University: TESOL and applied linguistics

Riazantseva, Anastasia, Assistant Professor, Ph.D. 1999, SUNY Buffalo: literacy and second language acquisition

Schneider, Phillip, Associate Professor, Ed.D. 1980, Columbia University: stuttering, vocal articulation

Stark, Joel, Professor, Ph.D. 1956, New York University: speech-language pathology, child language development disorders and disabilities

Stevens, Alan M., Professor, Ph.D. 1964, Yale University: phonology and Indonesian languages

Toeug, Renee, Lecturer, M.S. 1963, Pennsylvania State University: adult, child language disorders

DOCTOR OF PHILOSOPHY PROGRAMS

Adviser: Helen S. Cairns

The City University of New York offers programs for the degree of Doctor of Philosophy in Speech and Hearing Sciences and in Linguistics. The doctoral programs are described in the Bulletin of the CUNY Graduate School, which can be obtained from the Graduate School and University Center, 365 Fifth Avenue, New York, NY 10016-4309. Further information can also be obtained from the program offices.

MASTER OF ARTS DEGREE IN SPEECH-LANGUAGE PATHOLOGY

Program Director: Arlene Kraat

Program Coordinator: Sima Gerber

This is a program in speech-language pathology within the Department of Linguistics and Communication Disorders. The program is accredited by the Council on Academic Accreditation of the American Speech Language Hearing Association (ASLHA). The program provides the academic and practicum requirements for clinical certification by the American Speech Language Association and for professional licensure by the New York State Department of Education. The program also provides the necessary academic and pedagogical preparation for New York State certification as a Teacher of Students with Speech-Language Disabilities – SED Program (IRP) Code: 02710.

Admissions Requirements

Students are accepted into the program in the Fall semester. The requirements noted here are in addition to the general requirements for admission to graduate programs at Queens College.

1. A grade-point average of B (3.0) or better.

2. Applicants coming from other undergraduate programs must satisfy minimum requirements for admission as well as those required by the American Speech Language Hearing Association. By meeting the equivalent of the Queens College Liberal Arts and Sciences Area Requirements (LASAR), applicants will have had at least 3 semester credit hours in the biological/physical sciences, 3 semester credit hours in mathematics, and 6 semester credit hours in the behavioral or social sciences. They must also have the following courses (or their equivalent) in basic science and in communication processes; education and child development:

   3 semester credit hours in Child Development (Psychology 224)
   3 semester credit hours in Introduction to Communication Disorders (LCD 106)
   3 semester credit hours in Audiology (LCD 330)
   15 semester credit hours in anatomical/physiological bases (LCD 207, Anatomy & Physiology of the Speech and Language); physical/psychophysical bases (e.g., LCD 110, Phonetics; LCD 208, Hearing Science; LCD 309, Speech Science); and linguistic bases (LCD 216, Language Acquisition)

3. At least three letters of recommendation from undergraduate instructors, normally two from faculty in communication science and disorders and one from a faculty member in another area. Applicants who have been employed full time following receipt of their undergraduate degree may wish to submit letters from employment supervisors. An interview may be required.

4. Results of the Graduate Record Examination

5. Applicants who present international credentials or whose native language was not English must receive a minimum score of 650 on the TOEFL.

6. A personal essay.

7. The credentials of each applicant will be examined by the departmental Graduate Studies Committee, which accepts, accepts with conditions, or rejects candidates.

8. The number of applicants approved for matriculation is limited by the training facilities available; therefore, applicants who otherwise meet minimum requirements for matriculation may not be admitted.

The application deadline is February 1 for the year in which the prospective candidates apply. Since we admit a limited number of candidates each year, the process is competitive. Permission of the Program Coordinator is required for enrollment in any of the courses in the program.
Graduation Requirements
These requirements are in addition to the general Queens College requirements for the Master of Arts degree.
1. Candidates in Speech-Language Pathology must complete between 48 and 54 credits and be enrolled as full-time students for four consecutive semesters. In addition, students must take a course in Foundations of Education (SEYS 536), or its equivalent. Attendance during the summer semester of the year following their admission to the program may also be required.
2. In addition to course work, candidates must complete at least 12–14 hours a week of supervised clinical practicum each semester.
3. Candidates must complete a minimum of 375 clock hours of supervised clinical experience in at least three different settings, one of which must be in an elementary or secondary school setting.
4. Candidates must maintain a B (3.0) or better grade-point average.
5. A Passing score on the Speech Language Pathology Specialty Examination of the National Teachers’ Examination (Praxis) is a partial requirement for the Master of Arts in this program.
6. Candidates shall provide evidence of at least two hours of coursework or training regarding the identification and reporting of suspected child abuse or maltreatment. These hours may be obtained through enrollment in regularly offered continuing education courses.

PROGRAM FOR THE MASTER OF ARTS DEGREE IN APPLIED LINGUISTICS
Program Director: Robert M. Vago

The goal of this program is to train graduate students to be effective teachers of adult learners of English as a second or foreign language.

Admissions Requirements
These requirements are in addition to the general requirements for admission.
1. Completion of a bachelor’s degree with a 3.0 GPA minimum.
2. Applicants whose first language is not English and who do not hold an undergraduate or graduate degree from an accredited American institution of higher education must submit proof of having achieved a score of 650 or higher on the Test of English as a Foreign Language (TOEFL).
3. Three letters of recommendation.
4. A personal essay of approximately 500 words.
5. The credentials of each applicant will be examined by the Linguistics Graduate Admissions Committee. An interview may be requested.
6. The number of applicants approved for matriculation is limited by available resources; therefore, applicants who otherwise meet minimum requirements for matriculation may not necessarily be admitted.

Maintenance Requirements
1. Minimum overall grade-point average of B (3.0).
2. All students must file a Program of Study form with a Graduate Adviser.

Degree Requirements
These requirements are in addition to the general requirements for the Master of Arts degree.
2. Completion of course requirements with a minimum overall grade-point average of B (3.0).

PROGRAM FOR THE MASTER OF SCIENCE IN EDUCATION DEGREE: TESOL
Program Director: Robert M. Vago

This graduate program prepares students for New York State certification to teach English to speakers of other languages (TESOL) in school settings (all grades). The curriculum is grounded in the study of the structure of human language in general and English in particular, and addresses issues of language acquisition, literacy, educational technology, sociolinguistics, and psycholinguistics. The program emphasizes involvement with both elementary and secondary schools: it provides a student teaching course and field experiences in two methods courses at both levels.

Admissions Requirements
These requirements are in addition to the general requirements for admission.
1. Completion of a bachelor’s degree with a 3.0 GPA minimum.
2. Applicants whose first language is not English and who do not hold an undergraduate or graduate degree from an accredited American institution of higher education must submit proof of having achieved a score of 650 or higher on the Test of English as a Foreign Language (TOEFL).
3. Three letters of recommendation.
4. A personal essay of approximately 500 words.
5. The credentials of each applicant will be examined by the Linguistics Graduate Admissions Committee. An interview may be requested.
6. The number of applicants approved for matriculation is limited by available resources; therefore, applicants who otherwise meet minimum requirements for matriculation may not necessarily be admitted.

Maintenance Requirements
1. Minimum overall grade-point average of B (3.0).
2. All students must file a Program of Study form with a Graduate Adviser.

Degree Requirements
These requirements are in addition to the general requirements for the Master of Science in Education degree.
1. Satisfactory completion of the following 39 or 44 credits: LCD 701, 702, 703, 705, 706, 707, 712, 720, 740, 741.3 or 741.4, 742.3 or 742.4, 790, 795.3 or 795.6.
2. Completion of course requirements with a minimum overall grade-point average of B (3.0).

Certification Requirements
1. Students who do not possess a New York State teaching certificate will be required to undertake additional coursework in pedagogy: Foundations of Education (SEYS 536), Child Development (EECE 710, 711, or 712), and Educational Psychology (SEYS 552).
2. Students must complete a general education core in liberal arts and sciences: (a) two courses in English, Comparative Literature, or Literary Criticism; (b) two courses in American History; (c) two courses in World History, Geography, Economics, or Political Science; (d) one course in the Biological Sciences; (e) one course in the Physical Sciences; (f) one course in Information Technology; (g) two courses in Mathematics, Scientific Methodology, or Quantitative Reasoning; (h) 12 semester hours or equivalent of study of a language other than English. Students may satisfy the general education core in liberal arts and sciences requirement as part of their previous programs of study (undergraduate or graduate). In case of deficiencies, appropriate coursework may be taken in conjunction with and in addition to the course requirements for the master’s degree.
3. Students must consult with a Graduate Adviser for additional requirements (tests, seminars, etc.) for New York State certification.

Courses in Communication Disorders
700. Research Methodology in Communication Sciences and Disorders, 2 hr. plus conf.; 3 cr. Methods of experimental and statistical control in the design of research for the speech and hearing sciences.
708. Speech Science, 2 hr. plus conf.; 3 cr. Descriptive and theoretical accounts of the
production and perception of speech.†

710. Physiological Acoustics. 2 hr. plus conf.; 3 cr. Prereq.: Undergraduate speech/hearing anatomy, speech/hearing science, audiology. In-depth coverage of the anatomy and physiology of the auditory system from the peripheral ear through the central nervous system. The course covers the nature of signal transmission and transduction and the coding of information at each level of processing, along with the relationship of these functions to the nature of the sound signal, anatomical structure, and perception.

717. The Acquisition of Language. 2 hr. plus conf.; 3 cr. Development of language in the normal child; theoretical and empirical issues.†

721. Language and Learning Disorders of Children I. 2 hr. plus conf.; 3 cr. Application of research in normal language acquisition to the study of pre-school language and learning disorders; emphasis on the assessment of, and intervention with pre-school children with language and learning disorders.

722. Speech Disorders: Stuttering. 2 hr. plus conf.; 3 cr. Theoretical and empirical approaches to the symptoms, etiology, and management of fluency disorders.†

723. Augmentative Communication for the Severely Handicapped. 2 lec. hr., 1 lab. hr.; 3 cr. Nature of augmentative communication systems: guidelines and procedures for assessment and selection; training and intervention procedures.†

724. Neuromotor Communication Disorders. 2 hr. plus conf.; 3 cr. Emphasis on problems of children with cerebral palsy and other neuromuscular disorders.†

725. Diagnostic Methods in Speech-Language Pathology. 2 hr. plus conf.; 3 cr. Theoretical principles underlying the assessment of communication disorders; includes procedures for test selection, interviewing, and report writing.†

726. Language Disorders: Adults I. 2 hr. plus conf.; 3 cr. Symptoms, etiology, and management of adults with language difficulties related to neurological impairment.†

727. Speech Disorders: Voice. 2 hr. plus conf.; 3 cr. Vocal pathologies in children and adults: etiology, symptoms, and treatment approaches.†

728. Organization of Speech-Language Pathology and Audiology Services. 2 hr. plus conf.; 3 cr. Prereq. or coreq.: CAS 729. A study of research findings and professional practices basic to decision-making in the organization of clinical speech-language and hearing service delivery programs.


730. Speech Disorders: Articulation and Phonology. 2 hr. plus conf.; 3 cr. Review of current literature on phonological disorders with a view toward assessment and management.†

731. Language Disorders: Adults II. 2 hr. plus conf.; 3 cr. Prereq.: CAS 726. This course looks at the language of dementia, confusion, schizophrenia, and right hemisphere brain damage, along with motor speech disorders of dysarthria and apraxia of speech. Each disorder, especially as it relates to the geriatric population, is discussed according to its symptoms, etiology, diagnosis, and treatment.

732. Language and Learning Disorders of Children II. 2 hr. plus conf.; 3 cr. Application of research in normal oral and written language acquisition to the study of school-age language and learning disorders; emphasis on the assessment of, and intervention with, school-age children and adolescents with language and learning disorders.

734. Communication and Auditory Impairment. 2 hr. plus conf.; 3 cr. Communication problems of the hearing impaired: clinical strategies for intervention; production and comprehension of speech and language as well as psychological considerations.†

759. Studies in Communication Disorders. 3 hr.; 3 cr. May be repeated for credit if topic changes.

797. Special Problems. Prereq.: Approval of program coordinator and Department Chair.

797.1. 1 hr.; 1 cr. 797.2. 2 hr.; 2 cr. 797.3. 3 hr.; 3 cr.

Communication Disorders Courses in Reserve

704. The Psychology of Speech

714. Sociology of Speech: Sociolinguistics

715. Semantics

743. Advanced Audiology I

744. Hearing Aids

745. Audiological Assessment of the Young Child

746. Advanced Audiology II

747. Psychological Acoustics

748. Auditory Disorders in Children

749.1, 749.2, 749.3. Clinical Practicum in Audiology

Courses in Linguistics

701. Introduction to Linguistics. 3 hr.; 3 cr. Structural aspects of language most relevant to the ESL and/or literacy teacher.

702. Teaching English Sentence Structure I. 3 hr.; 3 cr. Prereq. or coreq.: LCD 701. Introduction to the grammar of English and applications to teaching ESL, Part I.

703. Teaching English Sentence Structure II. 3 hr.; 3 cr. Prereq.: LCD 702. Introduction to the grammar of English and applications to teaching ESL, Part II. Continuation of LCD 702.

705. Language and Cross-Cultural Communication. 3 hr.; 3 cr. Prereq. or coreq.: LCD 701. The acquisition and use of non-native languages from a cross-cultural perspective. Introduction to research on how non-native speakers learn the sociolinguistic and pragmatic rules of the target language and how inappropriate use of such rules often results in miscommunication between native and non-native speakers. Developing effective pedagogical techniques in teaching communicative competence to ESL learners.

706. Bilingualism. 3 hr.; 3 cr. Prereq. or coreq.: LCD 701. Sociolinguistic and psycholinguistic properties of bilingualism, legal history, and educational foundations of bilingual education. Bilingual education will be compared to other approaches. An emphasis is placed on the implications of bilingualism for ESL and/or literacy teachers.

707. Evaluation and Measurement in TESOL. 3 hr.; 3 cr. Prereq. or coreq.: LCD 703 and 741. Discussion of contemporary issues and problems in ESL testing. Construction and evaluation of reliable tests in all areas of language skills. Analysis of published standardized ESL tests, such as LAB and TOEFL.

712. Multiple Literacies in TESOL. 3 hr.; 3 cr. Prereq. or coreq.: LCD 741. This course provides a strong background in the teaching of the multiple literacies that English language learners need to thrive in today’s technologically changing society. The class explores the teaching of traditional alphabetic literacy skills involved in the English Language Arts. It also prepares students for instruction in emerging forms of communication, including media literacy, information literacy, and information technology. Components include assessment, methods, and materials development.

720. Teaching English Sound Structure. 3 hr.; 3 cr. Prereq. or coreq.: LCD 701. Introduction to the sound structure of English and applications to teaching ESL.

††-May be offered; see Class Schedule.
740. Second Language Acquisition and Teaching. 3 hr.; 3 cr. Prereq. or coreq.: LCD 701. Introduction to the linguistic and pedagogical theories and methods of teaching ESL.

741. Methods and Materials in TESOL: Listening, Speaking, Reading, Writing. Prereq.: LCD 702 and 740. This course is a comprehensive review of the methods and materials used in TESOL/ESL classes to teach the four language skills: listening, speaking, reading, and writing. The class covers how to adapt methods and materials to suit learner populations of different ages and at varying levels of English proficiency. The role of instructional technology (e.g., audiovisual, multimedia, computers in ESL instruction) will also be addressed. There is a field experience requirement at various school settings in conformity with New York State certification requirements. Classes may sometimes be held at these off-campus locations.

741.3. 3 hr. plus 40 hr. of fieldwork; 3 cr. (For students who possess a New York State teaching certificate.)

741.4. 3 hr. plus 75 hr. of fieldwork; 4 cr. (For students who do not possess a New York State teaching certificate.)

742. Methods and Materials of TESOL: The Content Areas. Prereq.: LCD 741. In this course students learn the principles and practices for TESOL/ESL through academic content areas such as mathematics, science, social studies, and language arts. Readings, model lessons, and authentic materials are used to examine the theoretical issues involved and apply them to teaching practices for ESL learners at the elementary and secondary levels. There is a field experience requirement at various school settings in conformity with New York State certification requirements. Classes may sometimes be held at these off-campus locations.

742.3. 3 hr. plus 40 hr. of fieldwork; 3 cr. (For students who possess a New York State teaching certificate.)

742.4. 3 hr. plus 75 hr. of fieldwork; 4 cr. (For students who do not possess a New York State teaching certificate.)

750. Practicum in Adult TESOL. 5 hr.; 3 cr. Prereq.: LCD 703, 705 or 706; coreq.: LCD 742. Supervised teaching experience plus a weekly two-hour seminar focused on classroom-related issues in second language acquisition and instruction. This course does not fulfill the State Education requirements for certification in elementary or secondary schools.

790. Seminar in Research in TESOL. 3 hr.; 3 cr. Prereq.: LCD 707 and 742. Analysis of selected research studies related to TESOL.

795. Student Teaching Internship in TESOL. Prereq.: LCD 707 and 742. Supervised student teaching in ESL classes in a variety of school settings in conformity with New York State certification requirements, plus a weekly seminar at the College.

795.3. 3 hr. plus 37.5 days of student teaching; 3 cr. (For students who possess a New York State teaching certificate.)

795.6. 3 hr. plus 75 days of student teaching; 6 cr. (For student who do not possess a New York State teaching certificate.)

Linguistics Courses in Reserve

709. Teaching Writing and Reading to the Adult ESL or Basic Education Student

781. Survey of Adult Literacy Practices and Theory

782. Language, Literacy, and Society

784. Practicum in Adult Literacy and Reading

791. Seminar in Research in Applied Linguistics

MASTER OF ARTS IN LIBERAL STUDIES

Director: Martin L. Pine
MALS Advisory Committee: James N. Jordan, Alberto Cordero
Dept. Office: 997-5372

The Master of Arts in Liberal Studies program makes possible a structured study of issues and problems outside the usual graduate school disciplines. Its interdisciplinary approach encourages students to see a specific problem, theme, or topic from a broad perspective by focusing on it through more than one methodology. The base of the 30-credit program is three term-taught core seminars that provide an intense examination of the sources and development of Western values.

While completing the core seminars (which comprise 9 credits), students, in consultation with a faculty adviser, select 18 credits of elective courses from existing College graduate offerings. This allows for a focused yet interdisciplinary approach at the Master’s level of study.

Faculty

The core faculty is drawn primarily but not exclusively from the Departments of Philosophy, History, Economics, and Political Science. Recent participants include:

Pine, Martin L., Director, Professor of History, Ph.D. 1965, Columbia University: ancient, Medieval, and Renaissance history

Cordero, Alberto, Professor of Philosophy, Ph.D., University of Maryland: philosophy of natural science; history of science

Hicks, Steven V., Associate Professor of Philosophy, Ph.D. 1990, Columbia University: Kant and Post-Kantian continental philosophy

Jordan, James N., Professor of Philosophy, Ph.D. 1966, University of Texas at Austin: Kant studies, ethics

Purnell, Frederick, Professor of Philosophy, Ph.D. 1971, Columbia University: ancient, Medieval, and Renaissance philosophy

Admissions

Students must satisfy the general requirements for admission to the Graduate Division. The Graduate Record Exam is not required. The MALS Advisory Committee recommends candidates to the Dean.

Requirements for MALS Degree

These requirements are in addition to the general requirements for the Master of Arts degree.

1. Each student must complete the three core seminars.
2. The course of study must be approved by a faculty adviser.
3. Of the six elective courses, no more than three can be in the same department.
4. Thesis or project required (3 credits).

MALS Core Seminars

Liberal Studies 700. Western Values I. 2 hr. plus conf.; 3 cr. An intensive examination of the philosophical, religious, and political ideas of the ancient and Medieval world in their historical context.

Liberal Studies 701. Western Values II. 2 hr. plus conf.; 3 cr. A continuation of LS 700 from the Renaissance to the middle of the twentieth century.

Liberal Studies 702. Western Values III. 2 hr. plus conf.; 3 cr. Topics in twentieth-century philosophy, politics, and science.
The Department of Mathematics offers a program of study to prepare them for Ph.D. programs in mathematics, for teaching at a pre-university level, for a career in probability or statistics, or for actuarial work. For those students who are interested in computer science as well as mathematics, a program can be arranged so that students do approximately one-half of their work in mathematics and one-half in computer science, each area complementing the other.

**Faculty**

Goldberg, Wallace, Chair, Professor, Ph.D. 1974, Polytechnic Institute of New York: applied mathematics, differential equations

Metas, Nick, Graduate Adviser, Assistant Professor, Ph.D. 1966, Massachusetts Institute of Technology: functional analysis, injective Banach spaces

Braun, Martin, Professor, Ph.D. 1968, New York University: qualitative theory of differential equations, mathematical models

Cowen, Robert H., Professor, Ph.D. 1967, Yeshiva University: logic and set theory

Dodziuk, Jozef, Professor, Ph.D. 1973, Columbia University: geometric analysis

Don, Eugene C., Lecturer, Ph.D. 1984, State University of New York at Stony Brook: numerical analysis

Emerson, William R., Professor, Ph.D. 1967, University of California at Berkeley: number theory, combinatorics, and topological group theory

Goodman, Arthur, Lecturer, Ph.D. 1980, Yeshiva University: approximation theory

Hechler, Stephen H., Professor, Ph.D. 1967, University of California at Berkeley: logic, set theory, set theoretical combinatorics, set theoretical topology

Itzkowitz, Gerald L., Professor, Ph.D. 1965, University of Rochester: topology, topological groups, functional analysis, relativity

Jiang, Yunping, Professor, Ph.D. 1990, City University of New York: dynamical systems

Kahane, Joseph, Professor, Ph.D. 1963, Columbia University: combinatorics, applied mathematics

Kramer, Kenneth B., Professor, Ph.D. 1973, Harvard University: algebraic number theory

Kulkarni, Ravi S., Professor, Ph.D. 1967, Harvard University: differential geometry, Riemann surfaces

Maller, Michael J., Associate Professor, Ph.D. 1978, University of Warwick: dynamical systems and analysis

Ralescu, Stefan S., Professor, Ph.D. 1981, Indiana University at Bloomington: statistics, non-parametric inference, probability theory

Roskes, Gerald J., Associate Professor, Ph.D. 1969, Massachusetts Institute of Technology: numerical analysis, partial differential equations, singular perturbation theory

Rothenberg, Ronald I., Associate Professor, Ph.D. 1964, University of California at Davis: operations research, probability and statistics, applied mathematics

Sisser, Fern S., Associate Professor, Ph.D. 1977, Columbia University: optimization

Sultan, Alan, Professor, Ph.D. 1974, Polytechnic Institute of New York: topological measure theory

Swick, Kenneth E., Professor, Ph.D. 1967, University of Iowa: differential equations, integral equations, population dynamics, epidemiology

Weiss, Norman J., Professor, Ph.D. 1966, Princeton University: harmonic analysis on Euclidean spaces and Lie groups

**Requirements for Matriculation in the Master of Arts Programs**

These requirements are in addition to the usual requirements for admission.

1. To be admitted to the program, a candidate must have at least 25 credits in advanced courses in mathematics and related fields (such as computer science and physics). At least 12 credits must be in mathematics, including advanced calculus and linear algebra, with an average of at least B in the mathematics courses. Applicants not meeting these requirements must secure special permission of the department, and may be required to take courses to remove the deficiencies without receiving graduate credit.

2. At least two of the written recommendations must be from the applicant’s undergraduate instructors and must deal with the ability of the applicant to pursue graduate work in mathematics.

3. The applicant must have the approval of the Departmental Committee of the Graduate Program.

4. The applicant’s plan of study must be approved by the department.

**Requirements for the Master of Arts Degree**

These requirements are in addition to the general requirements for the Master of Arts degree.

The Department of Mathematics offers to the student the opportunity to obtain the Master of Arts degree either in Pure Mathematics or with a concentration in Applied Mathematics.

**Master of Arts in Pure Mathematics**

1. A candidate for this degree is required to complete Mathematics 621, 628, 701, 702, and 703. A total of 30 credits required for the degree must be in mathematics, except that, with the approval of the Mathematics Department, a limited number of appropriate courses in physics or computer science may be substituted for mathematics courses. It is required that the program be completed with an average of B or better.

2. Each candidate for the degree must pass an oral examination.

**Master of Arts with a Concentration in Applied Mathematics**

1. A candidate for this degree is required to complete 30 credits in an approved sequence of graduate-level courses in mathematics and related fields. All students must achieve a solid grounding in the three areas of probability and statistics, analytic methods, and numerical methods. This can be achieved by taking the following mathematics courses: 621, 624, 625, 628, and 633; or by demonstrating competence in specific areas to the satisfaction of the department; or by taking an alternative program of courses selected with the approval of the Graduate Adviser. A list of current courses and suggested programs of study will be made available. Students may obtain permission to design programs tailored to their individual needs. It is required that the Master’s program be completed with an average of B or better.

2. Each candidate will be required to pass a written examination in an area of specialization to be approved by the Mathematics Department.

3. Students will be encouraged to obtain practical experience in applied mathematics by working for private businesses or governmental agencies participating in the Queens College Cooperative Education program.

**Program for the Master of Science in Education Degree**

Requirements for Matriculation

These requirements are in addition to the general requirements for admission. To be admitted to the program a candidate must have:

1. A cumulative index and Mathematics index of at least B, as well as a B index in education are required for matriculated status. Students who do not meet the above requirements may be permitted to enter as probationary matriculants. Probationary status will be removed when the first 12 credits are completed with an average of B or better.
of approved course work have been completed with a minimum average of $B$.  
2. At least 21 credits in college-level mathematics courses. These courses must include intermediate calculus and linear algebra, with an average of at least $B$. Note that before taking the mathematics courses that go toward the Master’s Degree, students must have a total of 36 credits in college-level mathematics.  
3. Two letters of recommendation.  

Requirements for the Degree  
1. Candidates in this program have two advisers, one in the Department of Secondary Education and Youth Services and one in the Department of Mathematics. The Education Adviser should be consulted first to plan out the required course work.  
2. Students must take 15 credits in mathematics and 15 credits in Secondary Education. Note that the course work in mathematics usually includes study in the History of Mathematics, Probability and Statistics, and Geometry. Students must consult their adviser to plan an appropriate course of study.  
3. Students are required to pass an oral examination in mathematics. This exam is given by two of the student’s professors and is based on the content of the two courses. The student may decide on the professors and submits a request to the Mathematics Adviser who then schedules the oral examination.  

Courses in Mathematics  

503. Mathematics from an Algorithmic Standpoint. 3 hr.; 3 cr. Prereq.: One year of calculus. An algorithmic approach to a variety of problems in high school and college mathematics. Experience in programming is not necessary. Topics may include problems from number theory, geometry, calculus and numerical analysis, combinatorics and probability, and games and puzzles. This course aims at a better understanding of mathematics by means of concrete, constructive examples of mathematical concepts and theorems. (This course may not be credited toward the degree of Master of Arts in Mathematics, except with the special permission of the Chair of the Mathematics Department.) Spring  

509. Set Theory and Logic. 3 hr.; 3 cr. Prereq.: One year of calculus or permission of instructor. May not be credited toward the Master of Arts degree in Mathematics. Propositional logic and truth tables. Basic intuitive ideas of set theory: cardinals, order types, and ordinals. Fall  

518. College Geometry. 3 hr.; 3 cr. Prereq.: One course in linear algebra. Advanced topics in plane geometry, transformation geometry. Not open to candidates for the Master of Arts degree in Mathematics. Fall  

524. History of Mathematics. 3 hr.; 3 cr. Prereq. or coreq.: Mathematics 201 (Intermediate Calculus). Not open to candidates for the Master of Arts degree in Mathematics. Fall  

525. History of Modern Mathematics. 3 hr.; 3 cr. Prereq.: Mathematics 524 or permission of instructor. May not be credited toward the Master of Arts degree in Mathematics. Selected topics from the history of nineteenth- and twentieth-century mathematics, e.g., topology, measure theory, paradoxes and mathematical logic, modern algebra, non-Euclidean geometries, foundations of analysis.  

550. Studies in Mathematics. Prereq.: Permission of the Mathematics Department. Topics will be announced in advance. May be repeated once for credit if topic is not the same. Not open to candidates for the Master of Arts degree in Mathematics. Fall  

551. Propositional Logic and Truth Tables. Basic logic, propositional calculus, and truth tables. Fall  

552. History of Mathematics. 3 hr.; 3 cr. Prereq.: Mathematics 524 or permission of instructor. May not be credited toward the Master of Arts degree in Mathematics. Not open to candidates for the Master of Arts degree in Mathematics. Spring  

555. Mathematics of Games and Puzzles. 3 hr.; 3 cr. Prereq.: Two years of calculus or permission of instructor. May not be credited toward the Master of Arts degree in Mathematics. Elements of game theory. Analysis of puzzles such as weighing problems, mazes, Instant Insanity, magic squares, paradoxes, etc.  

601. Discrete Mathematics for Computer Science. 4 hr.; 3 cr. An introduction to discrete mathematics for those incoming Computer Science master’s degree students who do not have an undergraduate background in discrete mathematics. Topics include elementary set theory, elements of abstract algebra, propositional calculus, and Boolean algebra, proofs, mathematical induction, combinatorics, graphs, and discrete probability theory. (Students may not receive credit for both Mathematics 601 and either Mathematics 220 or Computer Science 221, or an equivalent course in discrete mathematics. Mathematics 601 cannot be counted toward an undergraduate major in mathematics or a master’s degree in mathematics.)  

609. Introduction to Set Theory. 3 hr.; 3 cr. Prereq.: Mathematics 201 (Intermediate Calculus) or permission of instructor. Axiomatic development of set theory: relations, functions, ordinal and cardinal numbers, axiom of choice. Zorn’s lemma, continuum hypothesis. Spring  

611. Introduction to Mathematical Probability. 3 hr.; 3 cr. Prereq.: A one-year course in differential and integral calculus (including improper integrals). A first course in probability at an advanced level. Topics to be covered include axioms of probability, combinatorial analysis, conditional probability, random variables, binomial, Poisson, normal, and other distributions, mathematical expectation, and an introduction to statistical methods. Not open to students who have received credit for Mathematics 241 or 621. May not be credited toward the Master of Arts degree in Mathematics. Fall  

612. Projective Geometry. 3 hr.; 3 cr. Prereq.: A course in linear algebra. Study of the projective plane.††  

613. Algebraic Structures. 3 hr.; 3 cr. Prereq.: A course in linear algebra. Not open to students who have received undergraduate credit for Mathematics 333 at Queens College. Rings, polynomials, fields, Galois theory. Spring  

614. Functions of Real Variables. 3 hr.; 3 cr. Prereq.: Course in Elementary Real Analysis or Point Set Topology (equivalent of Mathematics 310 or 320), or permission of instructor. Provides a foundation for further study in mathematical analysis. Topics include: basic topology in metric spaces, continuity, uniform convergence and equicontinuity, introduction to Lebesgue theory of integration. Fall  


617. Number Systems. 3 hr.; 3 cr. Prereq.: Three semesters of undergraduate analytic geometry and calculus including infinite series. Not open to students who have received undergraduate credit for Mathematics 317 at Queens College. Axiomatic development of the integers, rational numbers, real numbers, and complex numbers. Fall  

618. Foundations of Geometry. 3 hr.; 3 cr. Prereq.: One year of calculus. Historical perspective. Axiomatics: models, consistency, and independence. Rigorous development of both Euclidean geometry and the non-Euclidean geometry of Bolyai and Lobachevski. Spring  

619. Theory of Numbers. 3 hr.; 3 cr. Prereq.: A course in linear algebra. The elementary theory of integers is considered, with applications to many numerical problems. Spring  

621. Probability. 3 hr.; 3 cr. Prereq.: A semester of intermediate calculus (the equivalent of Mathematics 201) and an introductory course in probability, or permission of Chair. Binomial, Poisson, normal, and other distributions. Random variables. Laws of large numbers. Generating functions. Markov chains. Central limit theorem. Fall  

†-Offered either Fall or Spring; see Class Schedule.  
††-May be offered; see Class Schedule.  

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623. Operations Research (Probability Methods), 3 hr.; 3 cr. Prereq.: Course in probability theory (such as Mathematics 241). An introduction to probabilistic methods of operations research. Topics include the general problem of decision making under uncertainty, project scheduling, probabilistic dynamic programming, inventory models, queuing theory, simulation models, and Monte Carlo methods. The stress is on applications. Spring

624. Numerical Analysis I. 3 hr.; 3 cr. Prereq.: Mathematics 130 (Applied Linear Algebra) or Mathematics 135 (Linear Algebra and Geometry I), or Mathematics 137 (Honors Linear Algebra), and either Mathematics 255 (Programming) or knowledge of a programming language; coreq.: Mathematics 201 (Intermediate Calculus). Numerical solution of nonlinear equations by iteration. Interpolation and polynomial approximation. Numerical differentiation and integration. Fall


626. Mathematics and Logic. 3 hr.; 3 cr. Prereq.: Intermediate calculus or permission of department. Propositional calculus, quantification theory, recursive functions, Gödel’s incompleteness theorem. Spring

628. Functions of a Complex Variable. 3 hr.; 3 cr. Prereq.: One year of advanced calculus (Mathematics 202) or permission of instructor. Topics covered include analytic functions, Cauchy’s Integral Theorem, Taylor’s theorem and Laurent series, the calculus of residues, Riemann surfaces, singularities, meromorphic functions. Spring

630. Differential Topology. 3 hr.; 3 cr. Prereq.: Advanced calculus. Differentiable manifolds and properties invariant under differentiable homeomorphisms; differential structures; maps; immersions, imbeddings, diffeomorphisms; implicit function theorem; partitions of unity; manifolds with boundary; smoothing of manifolds.


632. Differential Forms. 3 hr.; 3 cr. Prereq.: Advanced calculus. A study in a coordinate-free fashion of exterior differential forms: the types of integrands which appear in the advanced calculus.

633. Statistical Inference. 3 hr.; 3 cr. Prereq.: A semester of intermediate calculus (the equivalent of Mathematics 201) and either an undergraduate probability course which includes mathematical derivations or Mathematics 611 or 621. Basic concepts and procedures of statistical inference. Spring

634. Theory of Graphs. 3 hr.; 3 cr. Prereq.: One semester of advanced calculus. An introduction to the theory of directed and undirected graphs. The Four-Color Theorem. Applications to other fields. Fall

635. Stochastic Processes. 3 hr.; 3 cr. Prereq.: Mathematics 611 or 621. A study of families of random variables.††

636. Combinatorial Theory. 3 hr.; 3 cr. Prereq.: A course in linear algebra. This course will be concerned with techniques of enumeration. Spring

650. Studies in Mathematics. Prereq.: Permission of department. The topic will be announced in advance. This course may be repeated for credit provided the topic is not the same.††

650.1. 1 hr.; 1 cr. 650.2. 2 hr.; 2 cr. 650.3. 3 hr.; 3 cr.

701. Theory of the Integral. 3 hr.; 4½ cr. Prereq.: Mathematics 614. The Lebesgue integral in one dimension and in n dimensions. The abstract case. Spring

702. Modern Abstract Algebra I. 3 hr.; 4½ cr. Prereq.: Mathematics 613. A course in the fundamental concepts, techniques, and results of modern abstract algebra. Concepts and topics studied are semi-groups, groups, rings, fields, modules, vector spaces, algebras, linear algebras, matrices, field extensions, and ideals. Fall

703. Point Set Topology. 3 hr.; 4½ cr. Prereq.: Advanced calculus. Topological spaces, mappings, connectedness, compactness, separation axioms, product spaces, function spaces. Fall


705. Theory of Functions of a Complex Variable. 3 hr.; 4½ cr. Prereq.: Mathematics 701.††

706. Advanced Ordinary Differential Equations. 3 hr.; 4½ cr. Prereq.: Mathematics 616.††

707. Partial Differential Equations. 3 hr.; 4½ cr. Prereq.: Mathematics 706.††

708. Combinatorial Topology. 3 hr.; 4½ cr. Prereq.: Mathematics 703.††

709. Set Theory. 3 hr.; 4½ cr.††

710. Mathematics and Logic: Advanced Course. 3 hr.; 4½ cr. Prereq.: Mathematics 626.††

711. The Mathematical Structure of Modern Statistics. 3 hr.; 4½ cr. Prereq.: A course in either probability or statistics.††

712. Higher Geometry. 3 hr.; 4½ cr.††

713. Modern Abstract Algebra II. 3 hr.; 4½ cr. Prereq.: Mathematics 702.††

717. Theory of Approximation I. 3 hr.; 4½ cr. Prereq.: Mathematics 614 or permission of department.††

718. Theory of Approximation II. 3 hr.; 4½ cr. Prereq.: Mathematics 717.††

790. Independent Research. May be repeated for credit if the topic is changed. 790.1. 1 hr.; 1 cr. 790.2. 2 hr.; 2 cr. 790.3. 3 hr.; 3 cr. 790.4. 4 hr.; 4 cr. 790.45. 3 hr.; 4½ cr. 790.5. 5 hr.; 5 cr.

791. Tutorial. May be repeated for credit if the topic is changed. 791.1. 1 hr.; 1 cr. 791.2. 2 hr.; 2 cr. 791.3. 3 hr.; 3 cr. 791.4. 4 hr.; 4 cr. 791.45. 3 hr.; 4½ cr. 791.5. 5 hr.; 5 cr.

792. Seminar. May be repeated for credit if the topic is changed. 792.1. 1 hr.; 1 cr. 792.2. 2 hr.; 2 cr. 792.3. 3 hr.; 3 cr. 792.4. 4 hr.; 4 cr. 792.45. 3 hr.; 4½ cr. 792.5. 5 hr.; 5 cr.

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The Media Studies program offers students a rigorous academic course of study which seeks to develop their research, analytic, and policy-making skills. Students not only familiarize themselves with the theories and criticism of the field, but also develop the procedures and skills necessary to conduct original research. The curriculum is suited to those students whose primary interest is in theory and research and who wish to pursue doctoral studies elsewhere, but is also of great benefit to those who wish to enter into and reach higher levels in media-related industries.

The program is designed for the media generalist. All courses within the program examine the intellectual, social, and cultural issues raised by a rapidly changing media environment throughout the world. While local circumstances vary from country to country, many of these issues apply to media practices internationally. Courses address key questions in contemporary media debates with careful attention to the historical background of these debates. Specifically, the curriculum focuses upon the theory and criticism of contemporary media in three principal areas: 1) theories of media; 2) criticism of media and popular culture; 3) international media systems.

The program regularly updates the curriculum to take account of the rapid changes referred to above, in particular the globalization of media and the implications of new technological developments.

Those students lacking academic background in Media and/or Communications may be asked to take selected undergraduate courses to provide the appropriate background. These courses may be taken concurrently with graduate courses. Please note: Applications are not currently being accepted for this program.

Faculty

Liebman, Stuart, Chair, Professor, Ph.D. 1980, New York University: film theory and criticism, media theory
Buchsbaum, Jonathan, Master’s Program Coordinator, Associate Professor, Ph.D. 1983, New York University: film theory, film history, film and politics
Hendershot, Heather, Assistant Professor, Ph.D. 1995, University of Rochester: film and television analysis and criticism; children’s television; feminism and media
Macmillan, Susan, Lecturer, M.A. 1981, University of North Carolina: television production, media performance
Maxwell, Richard, Associate Professor, Ph.D. 1990, University of Wisconsin-Madison: international media and marketing

MASTER'S DEGREE IN MEDIA STUDIES
Requirements for Matriculation

These requirements are in addition to the general requirements for admission.
1. A 3.0 grade-point average on a 4.0 scale in undergraduate degree work.
2. At least three letters of recommendation from undergraduate instructors, normally two from instructors in communication and one from an instructor in another area. Applicants who have been employed full time following the receipt of their undergraduate degree may wish to submit letters from employment supervisors. In some instances an interview may be required.
3. A minimum score of 1000 on the Graduate Record Examination. International students are exempt from this requirement but must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).
4. The credentials of each applicant will be examined by the departmental Graduate Studies Committee, which will accept, accept with conditions, accept on probation, or reject the candidate.

Requirements for the Media Studies Program

These requirements are in addition to the general College requirements for the Master of Arts degree.
1. When a candidate is admitted, a departmental adviser will be appointed who will assist the candidate in developing a plan of study.
2. All candidates in Media Studies are required to pass three core courses with an overall grade-point average of B (3.0) or better. The courses are: MS 701, History of Forms of Media; MS 703, Graduate Study in Media; MS 706, Survey of Media Criticism.
3. In order to graduate, students must pass a comprehensive examination after completion of 30 credits with a grade-point average of B (3.0) or better.
4. Thesis Option. Subject to approval by the Graduate Media Studies Committee, students may prepare a thesis based upon independent research and must pass a final oral examination on its content and method, in the presence of their graduate committee. The thesis and thesis course, MS 799.2, will satisfy 6 credits toward the degree.

Courses in Media Studies

701. History of Forms of Media. 3 hr.; 3 cr. Introduction to and survey of the history of media forms, from orality through print to electronic media, with analysis of the grammar, syntax, and social implications unique to each medium.

703. Graduate Study in Media. 3 hr.; 3 cr. Introduction and survey of basic theories, research, production techniques, and critical procedures necessary to the development of a media orientation at the graduate level.

706. Survey of Media Criticism. 3 hr.; 3 cr. Broad survey of critical approaches to media, including semiotics, genre analysis, Frankfurt school, Freudian theory, political economy, feminism, rhetorical, and cultural studies, introducing basic critical vocabulary and addressing competing arguments.

740, 743, 744. Methodology in Media Research. 3 hr.; 3 cr. An introduction to basic scientific research methods used within the field of communications and the philosophical arguments behind the various approaches. Students learn to read and access statistical information as presented in communications research studies.

750. Media Theory. 3 hr.; 3 cr. Analysis of theoretical models; examination of relationships among interpersonal, organizational, mass, and societal communication systems.††

754. Survey of Media Research. 3 hr.; 3 cr. An examination and evaluation of media research. Emphasis on behavioral and experimental research. ††

757. Media and Politics. 3 hr.; 3 cr. The study of the interaction of media upon politics with special attention to topics such as rhetorical strategies used in presidential campaigns and elections, social movements, and Marxist theories of media.

758. Form and Genre. 4 hr.; 3 cr. Analysis of selected topics in media trends, forms, and styles. Social and political impact of film and ethnic and cultural minorities in film.

759. Studies in Communication. 3 hr.; 3 cr. May be repeated for credit if topic changes.

760. Rhetorical Theory and Media. 3 hr.; 3 cr. Study of rhetorical theories of communication from Aristotle to the present applied to a contemporary media context.††

761. Comparative Media Analysis. 3 hr.; 3 cr. Comparisons of selected national media systems across a variety of political and economic formations. The focus will include both print and broadcast media. Topics will include the nature of media organization, control, and financing; program content and scheduling; national policy debates; and others as pertinent.

764. International Media Systems. 3 hr.; 3 cr.†—Offered either Fall or Spring; see Class Schedule.
††—May be offered; see Class Schedule.
cr. International, transnational, cross-cultural, and comparative analyses of media systems.††

788. Cooperative Education Placement. Experiential learning through job placements developed by the Queens College Cooperative Education Program. Opportunities to test, apply, demonstrate, and expand on academic learning in an organizational setting. Prerequisites: at least three Media Studies courses. Students will develop a detailed learning and project contract to be approved by an on-site supervisor, a departmental faculty adviser, and the Media Studies Coordinator. At the completion of the project, the student shall submit a written report of the experience to the faculty adviser for evaluation and a grade. Students receiving life-experience credit may not receive Cooperative Education credit.†

789.3. 3 hr.; 3 cr.

797. Special Problems. Prereq.: Approval of program coordinator and Department Chair. Media Studies graduate students may receive up to three credits of life-experience credit under the conditions specified by the department; consult the coordinator of the Media Studies Program for details.

797.1. 1 hr.; 1 cr.
797.2. 2 hr.; 2 cr.
797.3. 3 hr.; 3 cr.

799.1. Article. Hr. to be arranged; 3 cr. Prereq.: Approval of program coordinator and Department Chair.

799.2. Thesis. Hr. to be arranged; 6 cr. Prereq.: Approval of program coordinator and Department Chair.

THE AARON COPLAND SCHOOL OF MUSIC

Director and Chair: Hubert Howe

Music Office: Music Building 203, 997-3800; Fax 997-3849

The Aaron Copland School of Music offers conservatory-level training in performance and university curricula in musical composition and scholarship leading to the Master of Arts degree. In conjunction with the Department of Secondary Education, the Copland School offers a music education program leading to the Master of Science degree in Music Education.

In the M.A. degree program, the performance sequence includes private instruction in the major instrument or voice, ensembles, historical performance practice studies, and other courses geared to the needs of performers. A student may major in a standard orchestral, keyboard, early or jazz instrument, in classical guitar, voice, and choral or orchestral conducting. The composition, theory, and music history sequences are designed for the student planning a career as a composer, for the student interested eventually in college-level teaching who needs solid grounding for doctoral studies, and for the student planning to enter music publishing, criticism, editing, or other music-related fields.

The M.S. in Education (Music) degree program includes methods, conducting, and rehearsal techniques, and research courses in music education. It is designed to provide professional training for those who expect to teach general or vocal, choral, and/or instrumental music in elementary and secondary schools. Electives are planned for the needs of the school music teacher, or are drawn from other graduate music offerings.

The Copland School moved into its new music building in the Summer of 1991. The facility includes the LeFrak Concert Hall with tracker organ, a smaller recital hall, choral and orchestral rehearsal spaces, classrooms surrounding a central skylight atrium, practice rooms and teaching studios, an expanded music library to house the extensive music collections, an expanded electronic music studio, music education workshop facilities, recording studio, faculty offices, and student and faculty lounges. The building is acoustically isolated and is one of the most advanced music facilities in the area.

MASTER OF ARTS PROGRAM

Adviser: William Rothstein

Faculty for Classical Performance

Adviser: Drora Pershing

Violin: Daniel Phillips; Burton Kaplan, Isaac Malkin, Margaret Pardee Butterly, Todd Phillips

Baroque Violin: Nancy Wilson

Viola: Toby Appel, Karen Dreyfus, Burton Kaplan

Cello: David Geber, Barbara Stein Mallow, Ronald Thomas

Double Bass: Homer Mensch

Flute: Linda Chesis; Trudy Kane, Robert Stallman, Keith Underwood, Jan Vinci

Baroque Flute: Sandra Miller

Oboe: Randall Wolfgang

Clarinet: Charles Neidich, David Krakauer

Bassoon: To be announced

French Horn: David Jolley; Robert Routch

Trumpet: Susan Radcliffe

Trombone: Chaim Avitsof, Jack Schatz

Tuba: Richard Schneider, Lewis Waldeck

Percussion: Michael Lipsey

Harp: Susan Jolles

Voice: Shirley Emmons, Marcy Lindheimer, Jan Olian, Dennis Raley, Robert C. White, Jr.

Piano: Morey Ritt; Donald Pirone, Gerald Robbins

Organ: Harry Hull, John Weaver

Harpsichord: Raymond Erickson

Guitar (Classical): William Matthews, Ben Verdery

Lute: Patrick O’Brien

Orchestral Conducting: Maurice Peress

Chamber Music and Ensembles: David Jolley, Charles Neidich, Drora Pershing, Daniel Phillips, Morey Ritt, Gerald Robbins

Opera Workshop: Doris Lang Kosloff, David Ostwald

Faculty for Jazz Performance

Adviser: Michael Mossman

Trumpet: Michael Mossman

Saxophones and Flute: Antonio Hart; Lew Tabackin

Piano: Sir Roland Hanna

Bass: Ben Brown, Victor Gaskin

Percussion: Keith Copeland, Akira Tana

Voice: Sheila Jordan

Trombone: Michael Mossman, Benny Powell, Steve Turre

Guitar: Mark Elf

Violin: John Blake

Faculty for Composition, Theory, and Music History

Adviser: William Rothstein

Burnett, Henry, Associate Professor, Ph.D.

1978, City University of New York:
musicologist, ethnomusicologist; seventeenth and eighteenth centuries, Japanese music
Erickson, Raymond, Professor, Ph.D. 1970, Yale University: musicologist, harpsichordist; Medieval and Baroque periods, computer techniques for musicology
Gagné, David W., Associate Professor, Ph.D. 1988, City University of New York: theorist, Schenkerian analysis
Hallmark, Rufus E., Professor, Ph.D. 1975, Princeton University: musicologist, singer, manuscript studies, Schumann, the Romantic lied
Howe, Hubert S., Jr., Professor, Ph.D. 1972, Princeton University: composer; computer synthesis of electronic music
Musgrave, Thea, Distinguished Professor, B.Mus. 1950, University of Edinburgh: composer; composition, orchestration
Orenstein, Arbie, Professor, Ph.D. 1968, Columbia University: musicologist, pianist; French music 1870-1940
Rothstein, William, Professor, Ph.D. 1981, Yale: theorist; Schenkerian analysis, analysis of rhythm
Saylor, Bruce S., Professor, Ph.D. 1978, City University of New York: composer; composers’ workshop
Stone, Anne, Assistant Professor, Ph.D. 1994, Harvard University: Medieval and Renaissance music
Straus, Joseph N., Professor, Ph.D. 1981, Yale University: theorist; music of Igor Stravinsky, set theory

Requirements for Admission
These requirements are in addition to the general requirements for admission.
1. An undergraduate degree with a major in music (or its equivalent).
2. A major audition for performance applicants. Auditions are held at the College each semester and are competitive.
3. Other applicants should submit copies of recent work to Professor William Rothstein, Graduate Adviser, Music Building, as stipulated below:
   - Composition: two or three recent works
   - Theory: one or two examples of tonal composition and a recent paper
   - History: one or more recent papers
4. International students are required to take the TOEFL examination, with a minimum score of 550.

Requirements for the Degree
These requirements are in addition to the general requirements for the Master of Arts degree.
1. A student normally majors in one area – Performance, Composition, Theory, or Music History – or in a combined Theory/History program.
2. Composition majors complete 30 credits of course work and write a large composition. Theory and Music History majors complete 30 credits plus a thesis, or complete 36 credits of course work. Performance majors complete 33 credits, perform a public recital, and write an essay on one of the works thus performed. The composition, thesis, or essay is completed under the supervision of an adviser approved by the Graduate Adviser.
   - Master’s programs are planned for three semesters of full-time work, but many students take two years to complete all requirements. Performance majors enroll as full-time students; others may register on a full- or part-time basis. Except for performance ensembles, graduate courses are usually offered in late afternoon or early evening for the convenience of students.
   - The following examinations are required during the course of study. Students will take each examination each semester until a passing grade is achieved.
     a) All students take a placement examination in theory and musicianship before registering for their first semester. Those who need work will be assigned appropriate course work or individual study.
     b) Students will be tested in history of music during their first semester. Those who need further work in this area will consult the Graduate Adviser for course work or other recommended study before retesting.
     c) A reading proficiency examination in French, German, or Italian is required of all students majoring in Music History and Theory, and Composition, and of performance majors who are singers or pianists specializing in vocal accompanying. All others may substitute an examination in foreign musical terms for the language examination.
   - Orchestral instrument majors play in Orchestra during each semester of residence. Voice majors participate in Opera Workshop or Vocal Ensemble each semester.

Course of Study for Classical Performance Majors
Performance majors are required to take Music 775.1, 775.2, 775.3, 778.1, 778.2, and 778.3, and Advanced Jazz Improvisation and Theory (754), Jazz Composition/Arranging (755). Problems in Jazz History and Analysis (756), plus three electives. The preferred schedule of courses is:

Fall (Semester III)
Music 775.1
Music 775.2
Music 775.3
One or two electives

Course of Study for Jazz Performance Majors
Jazz performance majors are required to take Music 775.1, 775.2, 775.3, 778.1, 778.2, and 778.3, and Advanced Jazz Improvisation and Theory (754), Jazz Composition/Arranging (755). Problems in Jazz History and Analysis (756), plus three electives. The preferred schedule of courses is:

Fall (Semester I)
Music 775.1
Music 775.2
Music 775.3
One or two electives

Course of Study for Composition Majors
Composition majors are required to take Music 742, 729, 730, 731 or 732, and 784-785. Remaining credits will be chosen from electives in consultation with the Adviser. The preferred schedule of courses is:

Fall (Semester I)
Music 742
Music 729
Music 784
One elective

Spring (Semester II)
Music 730
Music 785
One or two electives

Fall (Semester III)
Music 731 or 732
One or two electives

Courses of Study for Theory and History Majors
Since the fields of music theory and music history are both branches of musicology, their curricula have much in common. They diverge in the content of their two required seminars, as well as in the notation requirement. While most students declare either theory or history as their major area and take both seminars in that one area, it is possible to declare a musicology major and take one seminar in theory and one in history.
Theory majors are required to take Music 700, 742, 745, 746, and 762-763. Remaining credits will be chosen from electives in consultation with the Adviser. The preferred schedule of courses is:

Fall (Semester I)
Music 700
Music 742
One or two electives

Spring (Semester II)
Music 745 (when applicable)
Music 746
Music 762

Fall (Semester III)
Music 763
One or two electives

History majors are required to take Music 700, 705 or 706, 742, and either 710-711 or 760-761. Remaining credits will be chosen from electives in consultation with the Adviser. The preferred schedule of courses is:

Fall (Semester I)
Music 700
Music 742
One or two electives

Spring (Semester II)
Music 705 or 706
Music 710 or 760
One or two electives

Fall (Semester III)
Music 711 or 761
One or two electives

Courses in Music

700. Bibliography and Research Techniques. 3 hr.; 3 cr. Fall

705. Medieval Notation. 3 hr.; 3 cr. Spring

706. Renaissance Notation. 3 hr.; 3 cr. Spring

710, 711. Ethnomusicology Seminar. 3 hr. plus conf.; 3 cr. for Music 710, 700 and 742; for Music 711, Music 710. Ethnomusicological research of a special culture area or particular group.††

712. Ethnomusicology. 3 hr.; 3 cr. An introduction to the current theories and methodology of ethnomusicology. The study will include approaches to library research, fieldwork, notation, analysis, instrument classification, and contextual description of music as an integral part of culture. Recorded sound examples from the principal cultures of the world outside the area of Western classical music will be studied.††

713. Topical Course in Ethnomusicology. 3 hr.; 3 cr. Survey of a particular aspect of ethnomusicology or of the music of a particular area or group. (Recent offerings have been in Asian Music, Music of Japan, and Japanese Chamber Music.)††

725. Composers’ Workshop. 1 hr.; 1 cr. A practicum for composers including performance and discussion of student works and discussion of other new music. Required of composition majors during each semester of residence for a maximum of three credits. Open to other graduate students with permission of instructor. Graded on Pass/Fail basis only.

726.1. Electronic Music Studio I. 3 hr.; 3 cr. Introduction to electronic music studio synthesis through lectures and studio work. Emphasizes the operation of analog, digital, and sampling synthesizers and recording techniques.


727. Electronic Music Composition. 3 lec. hr. plus lab.; 3 cr. Prereq.: Music 726 or 733.1, or permission of instructor. Composition of electronic music using analog or digital methods.

728. Musical Systems and Speculative Theory. 3 cr.; 3 cr. Analysis of the syntactical systems of two musical languages which have produced important work: tonality and the 12-tone system; construction by analogy of new musical systems which might be used as the foundations for new music. Use of electronic media and the computer.

729. 730. Techniques of Composition. 3 hr.; 3 cr. each course. Prereq.: Undergraduate study in composition. A study of the different compositional concepts, styles, and techniques embodied in historical models. Students are required to submit original work directly related to the materials considered. May be repeated for credit with permission of Department.

731. 732. Composition Seminar. 3 hr. plus conf.; 3 cr. Prereq.: Music 730. May be repeated for credit with permission of Department.

731.1. Computer Music I. 3 hr.; 3 cr. Prereq.: Music 726.1 or 726.2, or permission of instructor. Introduction to computer music synthesis emphasizing the basic concepts of synthesis, score preparation, and the study of computer music.

732.2. Computer Music II. 3 hr.; 3 cr. Prereq.: Music 733.1 or permission of instructor. A continuation of Computer Music I. Survey of computer music synthesis methods and computer composition.

734. Computer Techniques for Music Research. 3 hr.; 3 cr. Applications of digital computers in the fields of music theory and music history. No technical background in the use of the computer is required.

736. Acoustics. 3 hr.; 3 cr. The study of sound generation, transmission, and reproduction.††

737. Organology. 3 hr.; 3 cr. History and classifications of music instruments in the Occident.††

738. Musical Iconography. 3 hr.; 3 cr. Critical and historical interpretation of the representation of music subjects from the arts of Ancient Egypt to the nineteenth century.††

742. Proseminar in Analysis and Style Criticism. 3 hr.; 3 cr. Analysis of style and structure of works of various periods. Fall

745.1. Schenkerian Analysis I. 3 hr.; 3 cr. Prereq.: Passing of Theory Qualifying Exam. An introduction to the theories of Heinrich Schenker, their relevance and practical application to musical analysis. (Required for all theory majors.)

745.2. Schenkerian Analysis II. 3 hr.; 3 cr. Prereq.: Music 745.1 or permission of instructor. A continuation of Music 745.1, focusing on more difficult repertoire, e.g., Baroque binary form, sonata, and rondo forms. Weekly assignment in graphing.††

746. Introduction to Post-Tonal Theory. 3 hr.; 3 cr. An introduction to current analytical approaches to 20th-century music. Required of theory majors.

749. Seminar in Music Criticism. 3 hr.; 3 cr.

753. Style Criticism: Topical Lecture Courses in Analysis and Criticism. 3 hr.; 3 cr. Prereq.: Matriculation for the Master of Arts degree in Music, or permission of school. Analysis and criticism of selected works. For announcement of specific topic, consult the School of Music or see supplementary listing at registration.††

754. Advanced Jazz Improvisation and Theory. 3 hr.; 3 cr. Prereq.: Permission of instructor. Advanced study of the theory, practice, and styles of improvisation designed to refine the technique and skills of the performer in preparation for a professional career.

755. Jazz Composition/Arranging. 3 hr.; 3 cr. Prereq.: Permission of instructor. The development of skills and techniques in the use of various jazz idioms and their application to individual creative expression. May be repeated for credit with permission of Department.

756. Problems in Jazz History and Analysis. 3 hr.; 3 cr. Prereq.: Permission of instructor. The first part of the semester will introduce students to the methods and problems of research in jazz history; the second half will focus on a specific era or on the
A year of undergraduate study in music history.

759. Studies in Tonal Harmony and Counterpoint. 3 hr.; 2 cr. An intensive study of tonal harmony and counterpoint, including chord prolongation and long-range structure. Practical applications. Open to interested students, but required of those who fail the Theory Qualifying Examination.

760, 761. Seminar in Music History. 3 hr. plus conf.; 3 cr. Prereq.: For Music 760, Music 700 and 742; for Music 761, Music 760. Consideration of special historical problems in which techniques of research and independent evaluation are stressed. May be repeated for credit with permission of School. 760–Fall; 761–Spring

762, 763. Seminar in Music Theory. 3 hr. plus conf.; 3 cr. Prereq.: For Music 762, Music 700 and 742; for Music 763, Music 762. An examination of significant theoretical and compositional concepts from the Middle Ages to the present. May be repeated for credit with permission of School. 762–Fall; 763–Spring

764. Topical Courses in Applied Music Theory. 3 hr.; 3 cr. Prereq.: Permission of instructor. Topic changes each time; past topics have included advanced counterpoint, fugue writing, advanced orchestration, arranging, theory of pedagogy, etc.

765. Theory: Topical Lecture Courses. 3 hr.; 3 cr. Study of special topic in music theory such as chromaticism, form, structural analysis, comparative musical systems, etc.

768. Western Music History Survey. 3 hr.; 2 cr. A survey of Western music covering the major periods through the 20th century. Assigned readings and listening, plus one individualized research project. Final exam on: 1) historical information, and 2) style recognition.

772. The Art of Keyboard Accompaniment. 2 hr.; 2 cr. Prereq.: Permission of instructor. A course for advanced keyboard players in the accompanist’s role in the performance of the vocal and instrumental repertoire. Coaching in selected literature.

773. Topics in the History of Music. 3 hr.; 3 cr. Prereq.: Matriculation for either the M.A. degree in Music or the M.S. in Education (Music) degree, or permission of School. Lecture courses in the history of music. For announcement of specific courses, consult the School of Music or see supplementary listing at registration. May be repeated for credit if the topic changes.

774. Liturgical Chant. 3 hr.; 3 cr. Prereq.: A year of undergraduate study in music history.††

775.1. Chamber Music I. 1 hr.; 1 cr. The study of music literature through participation in a performance group. Fall, Spring

775.2. Chamber Music II. 1 hr.; 1 cr. Fall, Spring

775.3. Chamber Music III. 1 hr.; 1 cr. Fall, Spring

776. Performance Workshop for Conductors. 2 hr.; 2 cr. Prereq.: Permission of instructor. This course consists of assistantships to the directors of the Orchestra, Opera Workshop, and Choir and leads to public performances with one or more of these large performing groups. May be repeated for credit. (Required for all conducting majors.)

777. Seminars in Performance Practice. 3 hr.; 3 cr. Study of the performance practices of a particular historical period. Musical analysis and examination of contemporaneous writings will serve as the basis for live performance in class. The course normally rotates over a four-semester series as follows:

777.1. Renaissance
777.2. Baroque
777.3. Classic and Romantic
777.4. Twentieth Century

778.1. Individual Musical Performance I. 1 hr.; 4 cr. Prereq.: For instrumentalists and singers: Advanced level of performance on the student’s instrument or voice and permission of School. For conductors: Advanced level of performance as a conductor and permission of School. Private study in an instrument, or voice, or conducting. Fall, Spring

778.2. Individual Musical Performance II. 1 hr.; 4 cr. Prereq.: Music 778.1. Continuation of private study in an instrument, or voice, or conducting. Fall, Spring

778.3. Individual Musical Performance III. 1 hr.; 4 cr. Prereq.: Music 778.2. Continuation of private study in an instrument, or voice, or conducting. Fall, Spring

778.4. Performance of Non-Western Instruments of Music. 1 hr.; 2 cr. Prereq.: Limited to students of ethnomusicology, or permission of School. Instruction in playing non-Western instruments. Fall, Spring

779. Musical Analysis for Performers. 3 hr.; 3 cr. Prereq.: Required of all students with a major in performance. Analysis of structure, texture, and form in tonal music as it relates to performance.†

780. The Middle Ages. 3 hr.; 3 cr. Prereq.: A year of undergraduate study in music history.††

781. The Renaissance. 3 hr.; 3 cr. Prereq.: A year of undergraduate study in music history.††

782. The Baroque. 3 hr.; 3 cr. Prereq.: A year of undergraduate study in music history.††

783. Classicism and Romanticism. 3 hr.; 3 cr. Prereq.: A year of undergraduate study in music history.††

784. The Twentieth Century I. 3 hr.; 3 cr. A detailed study of the changing styles and concepts of twentieth-century music up to World War II. Fall

785. The Twentieth Century II. 3 hr.; 3 cr. A detailed study of music from World War I to the present. Spring

790, 791. Special Problems. Prereq.: Permission of School. Intensive study and a definite project in a field chosen by the student under the direction of a member of the School. 790.1., 791.1. 1 hr.; 1 cr.

790.2., 791.2. 2 hr.; 2 cr.

790.3., 791.3. 3 hr.; 3 cr.

792. Orchestra. 1 hr.; 1 cr. Prereq.: Permission of instructor. May be repeated for credit.

793. Symphonic Wind Ensemble. 1 hr.; 1 cr. Prereq.: Permission of instructor. A specialized performance organization for wind and percussion players which is designed for the study and performance of the symphonic band/wind ensemble repertoire from a variety of periods. May be elected by M.A. or M.S. students subject to the requirements of the various programs. May be repeated for credit.

794.1. Vocal Ensemble. 1 hr.; 1 cr. Prereq.: Permission of instructor. A small, select chamber choir which performs music from the Middle Ages to the present. May be repeated for credit.

794.2. Collegium Musicum (Renaissance and Baroque Instrumental Ensemble). 1 hr.; 1 cr. Prereq.: Permission of instructor. May be repeated for credit. Group performs on modern copies of period instruments.

794.3. Baroque Ensemble. 1 hr.; 1 cr. Prereq.: Permission of instructor. A small, select ensemble which performs Baroque chamber music. May be repeated for credit.

794.4. Nota Bene (Contemporary Instrumental Ensemble). 1 hr.; 1 cr. Prereq.: Permission of instructor. May be repeated for credit.

794.5. Brass Ensemble. 1 hr.; 1 cr. Prereq.: Permission of instructor. A small, select group for the performance of literature for brass instruments. May be repeated for credit. Fulfills the chamber music requirement for brass players.

794.6. Percussion Ensemble. 1 hr.; 1 cr. Prereq.: Permission of instructor. A small, select ensemble for the performance of literature for percussion. Fulfills the chamber music requirement for percussionists. May be repeated for credit.

†-Offered either Fall or Spring; see Class Schedule.
††-May be offered; see Class Schedule.
794.7. Jazz Ensemble. 1 hr.; 1 cr. Prereq.: Permission of instructor. The study and performance of selected repertoire, published and unpublished, including student work. May be repeated for credit.

796. Opera Studio. Prereq.: Permission of instructor. Individual coaching and group rehearsals culminating in recitals and staged performances. May be repeated for credit.

798. Advanced Solfege and Score Reading. Prereq.: Permission of instructor. An elective for students needing high-level proficiency in score reading and related skills.

799. Survey of Repertory for Major Instruments and Voice. 1 hr.; 1 cr. Prereq.: Permission of instructor. A study of orchestral, choral, and solo repertoires. Depending on enrollment, the course concentrates each semester on one or more of the following media: woodwinds, brass, percussion, strings, keyboard, and voice. May be repeated for credit.

MASTER OF SCIENCE IN EDUCATION PROGRAM (MUSIC)

Adviser: Richard C. Sang, Music Bldg., Room 256; (718) 997-3850

Faculty

Sang, Richard C., Adviser, Assistant Professor, Ph.D. 1982, University of Michigan: music educator and conductor; instrumental pedagogy; music education research

Aiello, Rita, Associate Professor, Ed. D. 1976, Teachers College, Columbia University: secondary education, music perception, psychology of music

Bell, Cindy, Assistant Professor, Ed.D. 2000, Teachers College, Columbia University: choral conducting, classroom music, choral methods, vocal pedagogy

Eisman, Lawrence W., Professor, Ed.D. 1968, New York University: music educator and conductor; music in the secondary school, choral and instrumental conducting

Admissions

The Aaron Copland School of Music, in cooperation with the Division of Education at Queens College, offers the Master of Science in Education degree with a concentration in Music Education. The New York State Education Department-approved programs are designed to 1) increase the knowledge and skills of Provisionally/Initially certified teachers leading toward the new (formally “Permanent”) Professional certification, and 2) to prepare candidates with degrees in music, but no teacher preparation, for the Initial Certificate. Most courses are late afternoon and evening.

There are two tracks to the Master of Science in Education degree in Music Education: Initial and Professional. Admission is open to applicants with a bachelor’s degree in music or music education. Students already holding Provisional or Initial certificates are placed in the Professional track. Non-certified students are placed in the Initial track. A minimum B (3.0 of 4.0) cumulative undergraduate average, or a master’s degree in another area of music, is required for admission. Students must maintain a B average throughout either program for completion/graduation. Students must meet with the Graduate Adviser for registration prior to each semester enrolled.

Program Requirements – Initial Certification Track

The Initial Certification Track is a strictly prescribed program which combines both the M.S. core with required pedagogical courses mandated by the New York State Education Department for Initial Certification. Students will be guided through the pedagogical course work and student teaching first – allowing them to begin teaching before completing the degree. The graduation requirement for this track is typically 40–42 credits plus a thesis, but may be lower depending on the courses the individual student may have had at the undergraduate level (or another graduate program). Students who already possess a master’s degree will only need to take the pedagogical coursework and student teaching totaling about 30 credits. These students will be qualified to apply for Initial Certification. However, no degree will be granted unless the M.S. core is completed.

Students in the Initial Certificate option may apply for Initial Certification after completing the following courses:

Music 690, Foundations of Music Education, 3 cr.

or

SEYS 536, Educational Foundations, 3 cr

SEYS 552, Educational Psychology, 3 cr

EECE 711, Ecological Perspectives on Development: The Childhood Years, 3 cr.

or

EECE 717 Ecological Perspectives on Development: Early Adolescence, 3 cr.

and either

EECE 525, Language and Literacy Learning in the Elementary Years, 3 cr.

or

SEYS 700, Language, Literacy, and Culture in Education, 3 cr.

Music 641, Teaching of Instrumental Music, 3 cr.

or

Music 642, Teaching of Choral Music, 3 cr.

Music 643, Seminar in the Teaching of Music, 4 cr.

Music 644, Student Teaching in Music, 6 cr.

Music 669, Conducting II, 2 cr.

and a choice of either

Music 666, Vocal Pedagogy, 2 cr.

or at least 3 credits from among the following:

Music 661, Group Instruction in Upper Strings, 1 cr.

Music 662, Group Instruction in Lower Strings, 1 cr.

Music 663, Group Instruction in Woodwinds, 1 cr.

Music 667, Group Instruction in Brass, 1 cr.

Music 668, Group Instruction in Percussion, 1 cr.

Courses – Initial Track

641. Teaching of Instrumental Music. 3 hr.; 3 cr. Prereq.: Music 661, 662, 663, 667, and 668, or undergraduate equivalents. An advanced course in current instrumental music pedagogy working from the philosophical to the practical, and touching base with rehearsal techniques, materials and literature, the National and State Standards, assessment, multicultural musics, technology in the music classroom, and working with the special learner.

642. Teaching of Choral Music. 3 hr.; 3 cr. Prereq.: Music 666 or undergraduate equivalent. An advanced course in current choral music pedagogy working from the philosophical to the practical, and touching base with rehearsal techniques, materials and literature, the National and State Standards, assessment, multicultural musics, technology in the music classroom, and working with the special learner.

643. Seminar in the Teaching of Music. 3 hr. of participating and observation one morning or afternoon per week for a total of 45 clock hours and 4 class hr.; 4 cr. The class hours will be divided between elementary and secondary. Prereq.: EECE 711, SEYS 552. Content will focus on curriculum and instruction, multicultural musics, technology, students with disabilities, and assessment.

644. Student Teaching in Music. 16 hr.; 6 cr. Prereq.: MUS 643 with at least a B, Music 669, Music 666 (for vocal majors), and at least three of the following (for instrumental majors): Music 661, 662, 663, 667, 668. Students will be assigned the equivalent of 20 six-hour days (140 hours) at the elementary (Pre-K–6) level, and 20 six-hour days (140 hours) at the secondary (7–12) level. Students will, to the extent possible, be assigned to both urban and non-urban settings. Students are expected to prepare daily lesson plans, and will develop and maintain student teaching portfolios.
659. General Music in the Elementary Schools. 3 hr.; 3 cr. Prereq.: Music 644. Student Teaching in Music. An advanced course in current elementary classroom pedagogy working from the philosophical to the practical, and touching base with the National and State Standards, assessment, multicultural musics, technology in the music classroom, and working with the special learner.

660. General Music in the Secondary Schools. 3 hr.; 3 cr. Prereq.: Music 644. Student Teaching in Music. An advanced course in current elementary classroom music pedagogy working from the philosophical to the practical, and touching base with the National and State Standards, assessment, multicultural musics, technology in the music classroom, and working with the special learner.

661. Group Instruction in Upper Strings. 3 hr.; 1 cr. Prereq.: Permission of the department. Meets with Music 161 with additional course work for graduate students. For instrumental majors and Initial Certificate Track students only. Development of skill in performing and pedagogical techniques for (but not limited to) violin.

662. Group Instruction in Lower Strings. 3 hr.; 1 cr. Prereq.: Permission of the department. Meets with Music 162 with additional course work for graduate students. For instrumental majors and Initial Certificate Track students only. Development of skill in performing and pedagogical techniques for (but not limited to) cello.

663. Group Instruction in Woodwinds. 3 hr.; 1 cr. Prereq.: Permission of the department. Meets with Music 163 with additional course work for graduate students. For instrumental majors and Initial Certificate Track students only. Development of skill in performing and pedagogical techniques for (but not limited to) flute, oboe, and clarinet.

666. Vocal Pedagogy. 3 hr.; 2 cr. Prereq.: Permission of the department. Meets with Music 266 with additional course work for graduate students. For Vocal/General majors and Initial Certificate Track students only. The physiology of the vocal mechanism and techniques for teaching voice production. The development of individual skill in singing is stressed. Spring.

667. Group Instruction in Brass. 3 hr.; 1 cr. Prereq.: Permission of the department. Meets with Music 167 with additional course work for graduate students. For instrumental majors and Initial Certificate Track students only. Development of skill in performing and pedagogical techniques for (but not limited to) trumpet and trombone.

668. Group Instruction in Percussion. 3 hr.; 1 cr. Prereq.: Permission of the department. Meets with Music 168 with additional course work for graduate students. For instrumental majors and Initial Certificate Track students only. Development of skill in performing and pedagogical techniques.

669. Conducting I. 3 hr.; 2 cr. Prereq.: Permission of the department. Meets with Music 370 with additional course work for graduate students. For Initial Certificate Track students only. Includes consideration of repertoire, problems of interpretation, organization of choral and instrumental groups.

670. Advanced Conducting. 3 hr.; 3 cr. Prereq.: Music 669 or undergraduate course in conducting (Music 270 or equivalent). Focus is on advanced conducting problems, techniques, and literature (both choral and instrumental).

688. Seminar in Research in Music Education. 3 hr.; 3 cr. Prereq.: Matriculation for the Master of Science in Education degree with a major in music; within 12 months of completing graduate study. The course focuses on preparing the student to be able to read the research literature in music education with emphasis on historical, descriptive, and experimental research, and an introduction to statistics used in behavioral research.

Program Requirements – Professional Certification Track

The Professional Certification Track stresses the foundations and psychology of music and education, the teaching of elementary and/or secondary classroom music, vocal and/or instrumental music pedagogy, conducting, and research – all in relation to the National Standards for Music and the Arts. Students’ programs are rounded out with music and/or education electives based on individual interests and abilities. The graduation requirement is 30 credits plus a thesis. Some credits earned in other graduate programs may be accepted for transfer.

This is a highly flexible program based on the interests and needs of the individual student. Students choose from among a group of courses in the categories of Historical, Philosophical, Social, and Psychological Foundations of Education: SEYS 701, 702, 703, 704, 705, 706, 707, 708, 720, 709, 710, 717, 718, 719, 738, 762, EECE 700, 703, 704, 705, 710, 711, 712, 713, 714, 717. Further, the student will be allowed 9 credits (for graduates from other undergraduate institutions) to 12 credits (for Queens undergraduates) of electives.* These will be allowed from any area of music, music education, or education at the graduate level (600 or higher course number).

*The reason for this difference is that Queens undergraduates have an extensive music history background and will be able to replace the history/literature requirement with an additional elective.

Courses – Professional Track

659. General Music in the Elementary Schools. (see graduate initial program).

660. General Music in the Secondary Schools. (see graduate initial program).

688. Seminar in Research in Music Education. (see graduate initial program).

670. Advanced Conducting. (see graduate initial program).

641. Teaching of Instrumental Music. (see graduate initial program).

642. Teaching of Choral Music. (see graduate initial program).

690. Foundations of Music Education. 3 hr.; 3 cr. Prereq.: Permission of Graduate Adviser. (This course may be used in lieu of the SEYS or EECE 700-level Elective course requirement in Historical, Philosophical, or Social Foundations.) Focus is on the historical, philosophical, social, and psychological foundations of music education and the practical applications of these foundations in teaching.

PHILOSOPHY

Chair: Steven V. Hicks
Graduate Adviser: Alberto Cordero
Dept. Office: Philosophy Building, Modular I, 997-5270

Four-Year B.A./M.A. Program

The Philosophy Department offers to strongly qualified undergraduate students the opportunity to receive both master’s and bachelor’s degrees within four years: that is, within the 120 credits normally required for the bachelor’s degree alone. Application to this program should be made in the upper sophomore or lower junior semester; admission is granted only in the junior year.

Seminars and research tutorials are given on both the leading contemporary movements of philosophy and the chief historical periods and figures. Students with diverse philosophical interests are accommodated by a faculty representing a broad spectrum of specializations. The acceleration and intensiveness of the B.A./M.A. program make for an exceptionally solid grounding in philosophy that will be of value in all fields in which the tradition of liberal arts is prized. Full details and application forms are obtainable from the Chair or Graduate Adviser.
ARTS DEGREE
PROGRAM FOR THE MASTER OF
degree.

Leites, Edmund, Adviser.
Cordero, Alberto, Graduate Adviser
Lange, John F.,
Orenstein, Alex,
Hicks, Steven V., Chair,
Purnell, Frederick, Jr.,
Grover, Stephen, Associate Professor,

Faculty

Requirements for the M.A. Degree
(Offered in Conjunction with the Four-Year B.A./M.A. Program)

These requirements are in addition to the general requirements for the Master of Arts degree.

1. Required Courses: Twenty-four credits in philosophy; six of these shall be in the history of philosophy, unless the student presents six undergraduate credits in the history of philosophy or passes an exemption examination. Approval of the program of study must be obtained from a Graduate Adviser.

2. The student’s program must include courses chosen from at least three of the five groups of graduate philosophy courses: history of philosophy; logic and philosophy of science; metaphysics, epistemology, and contemporary schools of philosophy; theory of values; and philosophies of special disciplines.

3. Six credits may be taken in approved graduate courses offered outside the program of philosophy. Approval of such coursework must be secured in advance from the Graduate Committee in Philosophy.

4. The student must give evidence of proficiency in one of the following languages: French, German, Latin, or Greek. Another language may be substituted for one of these only with the approval of the Graduate Committee in Philosophy.

5. A thesis satisfactory to the department, written under supervision.


Courses in Philosophy

Note: Detailed descriptions of current course offerings are available from the secretary of the Department of Philosophy, Philosophy Building, Modular I.

History of Philosophy

710. Ancient Philosophy: Plato. 2 hr. plus conf.; 3 cr.††
711. Ancient Philosophy: Aristotle. 2 hr. plus conf.; 3 cr.††
712. Studies in Medieval Philosophy: Early Medieval Philosophy. 2 hr. plus conf.; 3 cr.††
713. Studies in Medieval Philosophy: Late Medieval Philosophy. 2 hr. plus conf.; 3 cr.††
714. Studies in Early Modern Philosophy: Rationalism. 2 hr. plus conf.; 3 cr.††
715. Studies in Early Modern Philosophy: Empiricism. 2 hr. plus conf.; 3 cr.††
716. Studies in Late Modern Philosophy: Kant. 2 hr. plus conf.; 3 cr.††
717. Studies in Late Modern Philosophy: Middle and Late Nineteenth Century. 2 hr. plus conf.; 3 cr.††

Logic and Philosophy of Science

620. Advanced Logic. 2 hr. plus conf.; 3 cr. Prereq.: An introductory course in symbolic logic or its equivalent.††
621. Logic and Language. 2 hr. plus conf.; 3 cr.††
721. Philosophy of Mathematics. 2 hr. plus conf.; 3 cr. Prereq.: A knowledge of symbolic logic.††
722. Methodology of Empirical Sciences. 2 hr. plus conf.; 3 cr. Prereq.: A course in logic or philosophy of science.††
723. Probability and Induction. 2 hr. plus conf.; 3 cr. Prereq.: An introductory course in logic or its equivalent.††

Metaphysics and Epistemology

730. Metaphysics. 2 hr. plus conf.; 3 cr.††
731. Philosophy of Mind. 2 hr. plus conf.; 3 cr.††
732. Epistemology. 2 hr. plus conf.; 3 cr.††

Contemporary Problems and Schools of Philosophy

740. Phenomenology. 2 hr. plus conf.; 3 cr.††
741. Existentialism. 2 hr. plus conf.; 3 cr.††
742. Pragmatism. 2 hr. plus conf.; 3 cr.††
743. Philosophical Analysis. 2 hr. plus conf.; 3 cr.††

Ethics, Aesthetics, Social Philosophy, and Philosophy of Religion

651. Philosophy of Law. 2 hr. plus conf.; 3 cr.††
652. Philosophy of History. 2 hr. plus conf.; 3 cr.††
653. Philosophy of the State. 2 hr. plus conf.; 3 cr.††
654. Philosophy of Religion. 2 hr. plus conf.; 3 cr.††
750. Ethical Systems. 2 hr. plus conf.; 3 cr. Prereq.: A course in ethics or theory of value.††
751. Ethical Analyses. 2 hr. plus conf.; 3 cr. Prereq.: A course in ethics or theory of value.††
752. Aesthetics. 2 hr. plus conf.; 3 cr.††
760. Business Ethics. 2 hr. plus conf.; 3 cr.

Special Studies, Seminars, and Tutorials

778. Special Studies in Philosophy. 2 hr. plus conf.; 3 cr. May be repeated for credit provided topic is different.††
779. Seminar in Philosophy. 2 hr. plus conf.; 3 cr. May be repeated for credit provided topic is different.††
780. Tutorial: Special Problems.

The completion of a project under the direction of a member of the department. 780.1. 1 hr.; 1 cr.
780.2. 2 hr.; 2 cr.
780.3. 3 hr.; 3 cr.

791. Thesis Research. Hr. to be arranged; 3 cr. Preparation of an acceptable Master’s thesis under faculty supervision. (Required of all candidates for the M.A. in Philosophy. A candidate will register for the course once and credit will not be granted until the thesis is accepted.)††
PHYSICS

Chair: Alexander Lisyansky

Graduate Advisers: For Ph.D. candidates: Azriel Genack; for Master’s candidates: J. Marion Dickey

Dept. Office: SB B334, 997-3350

The Physics Department offers a full spectrum of courses in theoretical and experimental physics, as well as research programs leading to the M.A. degree and the City University of New York Ph.D. degree. Students may participate in research via course Physics 799.

A partial list of research activities includes: development of high coercivity magnetic materials having wide application in microelectronics, development of sophisticated diagnostic techniques for surfaces, development of acousto-optic techniques for use in mammography, studies of photonic band gaps and localization, theoretical studies of wave diffusion in random media, elementary particle theory and studies of polymer thin films and interfaces.

The department has research funding from NSF, DOE, DOD, FIPSE, NASA, the Aaron Diamond Foundation, Exxon Research, Brookhaven National Laboratories, and other agencies. This funding allows a high level of student support and purchase of the most up-to-date equipment.

Faculty

Lisyansky, Alexander, Chair, Professor, Ph.D. 1977, Donetsk State University, Ukraine: condensed matter theory, phase transitions, and critical phenomena

Dickey, J. Marion, Graduate Adviser, Professor, Ph.D. 1967, Cambridge University, Ph.D. 1967, Cambridge University: risk assessment, reactor safety, solid state physics

Genack, Azriel Z., Graduate Adviser, Distinguished Professor, Ph.D. 1973, Columbia University: experimental solid state physics, light scattering and nonlinear optics

Cadieu, Fred J., Professor, Ph.D. 1970, University of Chicago: experimental solid state physics, rare earth transition metal magnetic systems

Deych, Lev I., Assistant Professor, Ph.D. 1991, Kirensky Institute of Physics, Russia: condensed matter theory, optics

Klarfeld, Joseph, Associate Professor, Ph.D. 1969, Yeshiva University: general relativity, classical and quantum field theory

Miskis, Mark G., Associate Professor, Ph.D. 1962, Polytechnic Institute of New York: experimental solid state physics; X-ray and neutron diffraction of thin films, physics education

Rafanelli, Kenneth R., Professor, Ph.D. 1964, Stevens Institute of Technology: theoretical elementary particle physics, relativistic rotating particles

Schwarz, Steven A., Professor, Ph.D. 1980, Stanford University: secondary ion mass spectrometry polymer physics.

PROGRAM FOR THE MASTER OF ARTS DEGREE

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

1. Candidate must have a minimum of 16 credits in physics beyond the introductory college course and six credits in mathematics beyond elementary calculus.

2. Letters of recommendation must be written by individuals who are qualified to attest to the applicant’s character and capacity to do graduate work in physics.

Requirements for the Master of Arts Degree

These requirements are in addition to the general requirements for the Master of Arts degree.

1. All candidates must complete the following courses or their equivalents as determined by the Graduate Physics Committee:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>601. Introduction to Mathematical Physics</td>
<td>3</td>
</tr>
<tr>
<td>625. Introduction to Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>641. Statistical Physics</td>
<td>3</td>
</tr>
<tr>
<td>711. Analytical Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>715. Electromagnetic Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

2. A minimum grade of B is required in any course numbered 600 to 699.

3. Graduate courses in mathematics and chemistry may be approved by the Graduate Physics Committee.

4. All candidates must take and pass a written comprehensive examination.

The Master of Arts is the first 30 credits of doctoral work in physics. The CUNY doctoral program is described in the Bulletin of the Graduate School.

Courses in Physics

Candidates for the Master of Arts degree must take at least three Physics courses at the 700 level or above.

501. Modern Aspects of Physics, 4 hr.; 4 cr. A course for teachers providing discussion of selected topics in mechanics, electronics, atomic and nuclear physics. Not open to candidates for the M.A. degree in Physics.††

503. Selected Topics in General Physics, 4 hr.; 4 cr. Prereq.: Matriculation for the M.S. in Education and an undergraduate major in biology, chemistry, or geology. Selected topics in the current high school physics curriculum are studied, with special emphasis on understanding of concepts, including recent developments and research; on lecture demonstrations; and on laboratory experiments.††

601. Introduction to Mathematical Physics, 3 hr.; 3 cr. Prereq.: A course in mechanics and an approved mathematics background. Selected topics in mechanics, thermodynamics, electrostatics, magnetostatics, the electromagnetic field, and the restricted theory of relativity. The mathematical methods developed include such topics as linear and partial differential equations, the calculus of variations, normal and curvilinear coordinates, expansion of a function as a series of orthogonal functions, vector, tensor, and matrix analysis.††

611. Analytical Mechanics, 3 hr.; 3 cr. Prereq.: An undergraduate course in mechanics and an approved mathematics background. Analytical mechanics of particles and rigid bodies. Free and forced oscillations; coupled systems; vibrating strings and membranes; the top. Use of numerical integration and power series, vector and tensor analysis, Lagrange’s and Hamilton’s equation. Fourier series and Bessel functions.††

612. Fluid Dynamics, 3 hr.; 3 cr. Prereq.: Physics 233, 234, or Mathematics 223 or 224, and Physics 122 or 146. A macroscopic description of the physical properties of fluids. Topics include fluid equations for inviscid compressible and incompressible flow, wave propagation, shock waves and related discontinuities, stability and turbulence, and other topics.††

621. Electronics, 3 hr.; 3 cr. Prereq.: Undergraduate course in electromagnetism and modern physics. Physical principles underlying operation of solid state, vacuum, and gaseous electronic devices; theory of rectifier, amplifier, and oscillator circuits; introduction to digital circuitry.††

622. Physics of Lasers, 3 hr.; 3 cr. Prereq.: Physics 355 or 312. Principles of operation of solid, liquid, and gas lasers and application of lasers to research.

625. Introduction to Quantum Mechanics, 3 hr.; 3 cr. Prereq.: Permission of department, a course in modern physics, and an approved mathematics background. Planck, Einstein, Compton, and the light quantum. The Bohr atom, Bohr-Sommerfeld quantum conditions, and interpretations by de Broglie waves. Solutions of problems, including the free particle, particle in box, the harmonic oscillator, and the hydrogen atom. Waves and the uncertainty principle.

†-Offered either Fall or Spring; see Class Schedule.
††-May be offered; see Class Schedule.

635. Introduction to Modern Physics I. 3 hr.; 3 cr. Prereq.: A course in modern physics; coreq.: Physics 625. An introduction to molecular and solid state phenomena. Molecular structure and spectra of diatomic molecules, quantum theory of chemical bonding and dipole moments, crystal structure, lattice dynamics, free electron theory of metals, band model of metals, insulators, and semiconductors.

636. Introduction to Modern Physics II. 3 hr.; 3 cr. Prereq.: A course in modern physics; coreq.: Physics 625. The experimental facts and elements of the quantum theories pertaining to: natural and artificial radioactivity; interaction of charged particles and gamma rays with matter; nuclear structure; emission of alpha, beta, and gamma rays; nuclear reactions and models; the nuclear force; neutron processes; muons; pions; strange particles.


645. Solid State Physics. 3 hr.; 3 cr. Prereq.: Physics 625. Crystal structure and symmetry; crystal diffraction; crystal binding; phonons and lattice vibrations; thermal properties of insulators; free electron theory of metals; energy bands; Fermi surfaces; semiconductors; selected topics in superconductivity, di-electric properties, ferroelectricity, magnetism.

651. Foundations of Physics. 3 hr.; 3 cr. Prereq.: Physics 625. The course presents the fundamental physical principles and concepts in a manner intended to show the interrelatedness of the various basic courses given in the undergraduate curriculum; classical and quantum mechanics, electromagnetic theory, phenomenological and statistical thermodynamics, and the principle of special relativity. The treatment provides historical and philosophical perspective. Some of the topics discussed are: the nature of space and time, concepts of force, mass, and inertia, action-at-a-distance and field theories, indeterminateness, the role of probability, the unidirectional character of time, the foundations of special and general relativity, symmetry principles and conservation theorems, the dimensionless number, and cosmological considerations. The unsettled character of all topics discussed is emphasized.

657. Introduction to Astrophysics. 3 hr.; 3 cr. Prereq.: Undergraduate courses in mechanics, electromagnetism, and modern physics. An introductory study of the spatial positions, movements, and constitutions of the stars, star clusters, and nebulae.

661, 662. Computer Simulation of Physical Models. 3 hr.; 3 cr. each sem. Prereq.: A course in differential equations or intermediate methods of mathematical physics. A seminar course in which computer programming will be used to obtain solutions to a wide variety of interdisciplinary problems such as the queuing problem in traffic flow, population dynamics, cell proliferation and death. Fourier optics, radiation shielding and safeguards, atomic motion in crystals and liquids.

671, 702. Modern Physics Laboratory. Hr. to be arranged; 1 cr. Experiments selected from among the areas of atomic, nuclear, solid state, molecular, and wave-optics physics. Depending on the experiment, objectives will vary: to learn basic techniques, to measure fundamental constants by repeating classic experiments; to do preliminary reading and planning of procedures which are then to be used in making the measurements.

701, 702. Mathematical Methods in Physics. 3 hr. plus conf.; 4 cr. each sem. Prereq.: 701 – Physics 601; 702 – Physics 701. Topics in complex variables; perturbation and variational methods of solution of differential equations; Green’s functions; eigenfunction expansions; integral transforms; integral equations; difference equations, linear algebra; Hilbert space; tensor analysis; group theory; higher algebra; numerical methods for solving equations.

711. Analytical Dynamics. 3 hr. plus conf.; 4 cr. Prereq.: Physics 601 or coreq.: Physics 701. The Lagrangian formulation including Hamilton’s principle; Lagrange equations; central force motion; Kepler problems, scattering; rigid body motion; transformation matrices, Eulerian angles, inertia tensor. The Hamiltonian formulation including canonical equations; canonical transformations; Hamilton-Jacobi theory. Small oscillations. Continuous systems and fields. Relativistic dynamics. Fall

715, 716. Electromagnetic Theory. 3 hr. plus conf.; 4 cr. each sem. Prereq.: 715 – Physics 601 or coreq.: Physics 701; 716 – Physics 715. Electrostatics, magnetostatics, and boundary value problems; Maxwell’s equations; multipole radiation; radiation from accelerated charges; scattering theory; special theory of relativity.


730. Atomic Physics. 3 hr. plus conf.; 4 cr. Prereq.: Physics 716 and 725. Spin systems, angular momentum, spectra. Atomic beam resonance, nuclear magnetic resonance (NMR), electronic paramagnetic resonance (EPR), optical pumping, scattering, lasers.

731. X-ray Diffraction. 2 hr. plus conf.; 3 cr. Prereq.: Physics 636 and an approved mathematics background. The theory of X-ray diffraction and its application to the study of the structure of matter. Topics to be considered will include the physics of X-rays, the geometry of crystals and of X-ray reflections, the theory of X-ray diffraction, techniques for the production and interpretation of X-ray diffraction data, and crystal structure determination.

734. Introduction to Relativity. 3 hr. plus conf.; 4 cr. Prereq.: Physics 711. A short exposition on the foundation of the special and general theories of relativity. Topics include foundation of special relativity; relativistic particle dynamics in flat space time; differential geometry; the physical and mathematical foundations of Einstein’s theory of gravitation; the Cauchy problem of field equations; the spherically symmetric field and its topology; the classical experimental tests; variational principle and conservation laws; equation of motion; gravitational waves; cosmology and gravitational collapse.

735. Nuclear Physics. 3 hr. plus conf.; 4 cr. Prereq.: Physics 725. Properties of stable nuclei; isotopes; mass formula; interactions with matter; methods of detection; nuclear moments. Alpha decay; gamma emission; level structure; nuclear models. Low-energy nucleon-nucleon scattering, the deuteron, photodisintegration, tensor and exchange forces, isotopic spin.

736. Particle Physics. 3 hr. plus conf.; 4 cr. Prereq.: Physics 735. Pi mesons, pion nucleon scattering, resonance. Hadron level systems and decays, effective Hamiltonians, electromagnetic interactions and form factors, higher symmetries. Scattering at very high energies. Weak interactions, beta decay, discrete symmetries, T. C. P. Weak interactions of pions and Kaons.
Coherent regeneration, conserved vector current. Leptonic decays of baryons, nonleptonic decays.

741. Statistical Mechanics. 3 hr. plus conf.; cr. Prereq.: Physics 641, 725. Probability theory, ensembles, approach to equilibrium, quantum and classical ideal and non-ideal gases, cooperative phenomena, density matrices, averages and fluctuations, and other selected topics, such as time-temperature, Green’s functions, non-zero temperature variational and perturbation methods.

Spring

745. Solid State Physics. 3 hr. plus conf.; 4 cr. Prereq.: Physics 725. Principles of crystallography; crystal structure; lattice vibrations, band theory, and defects; study of ionic crystals, dielectrics, magnetism, and free electron theory of metals and semiconductors.

748, 749. Theory of Relativity and Gravitation. 3 hr. plus conf.; 4 cr. each sem. Prereq.: Physics 711 and 716. An exposition of the fundamentals of the special and general theories of relativity and their applications to cosmology. Topics include foundations of special relativity; formulation of physical theories in flat space-time; relativistic particle and continuum mechanics, electrodynamics and classical field theory, an introduction to differential geometry and topology; foundations of Einstein’s theory of gravity; exact and approximate solutions; observational tests; variational principle; (anomalous diffusion, collisionless dissipation, gravity.††

760. Cosmology. 3 hr. plus conf.; 4 cr. Prereq.: Physics 641, 711, and 715.

771, 772, 773. Graduate Physics Laboratory. 3 hr.; 2 cr. each course. Prereq.: Permission of the Graduate Physics Committee. Advanced experimental work in one or more fields of physics, including the planning of experiments, the design and construction of apparatus, and the evaluation of experimental results in the fields of optics, X-rays, electronics, and atomic and nuclear physics. A student may obtain from 2 to 6 credits starting with Physics 771. Two courses of the group may be taken concurrently.

781. Theory of Quantum Liquids. 3 hr. plus conf.; 4 cr. Prereq.: Physics 716 and 741. The theory of liquids covering such topics as neutral Fermi liquids; response and correlation in neutral systems; charged Fermi liquids; response and correlation in homogeneous electron systems, microscopic theory of electron liquid; second quantization, Green’s functions.††

782. Cryophysics. 2 hr. plus conf.; 3 cr. Prereq.: Physics 741. A course designed to present and to interpret the quantum effects occurring near the absolute zero of temperature. Topics to be considered include principles and methods of attaining and measuring very low temperatures, thermal and magnetic properties of matter at these temperatures, nuclear paramagnetism, superconductivity, and the phenomena and theories of liquid Helium Four and Three.††

788. Cooperative Education Placement. Prereq.: Approval by the Physics Department’s Master’s Adviser of a detailed project description. Experiential learning through a job placement developed by the Queens College Cooperative Education Program.

788.1. 1 hr.; 1 cr. 788.2. 2 hr.; 2 cr.
788.3. 3 hr.; 3 cr. 788.4. 4 hr.; 4 cr.
788.5. 5 hr.; 5 cr.

799. Graduate Research. Prereq.: Permission of the Graduate Physics Committee. A course requiring investigation in depth of a field approved by the Graduate Physics Committee. Units of this course may be repeated to a maximum of 12 credits.

799.1. 1 hr.; 1 cr. 799.2. 2 hr.; 2 cr.
799.3. 3 hr.; 3 cr. 799.4. 4 hr.; 4 cr.
799.5. 5 hr.; 5 cr. 799.6. 6 hr.; 6 cr.

The following courses, which bear the U designation, are doctoral courses offered at Queens College. Students must register for them through the Graduate Center.

U812. Continuum Mechanics. 3 hr. plus conf.; 4 cr. Prereq.: Physics 711 and 715. Fall

U825, U826. Advanced Quantum Theory. 3 hr. plus conf.; 4 cr. each sem. Prereq.: Physics 726.

Course in Astronomy

Astronomy 501. Modern Aspects of Astronomy. 4 hr.; 4 cr. Prereq.: Permission of department. A course for teachers providing an introduction to general astronomy with emphasis on the structure and evolution of the universe. Not open to candidates for the M.A. in Physics.††

POLITICAL SCIENCE

Chair: Patricia Rachal
Graduate Adviser: Irving Leonard Markovitz

Dept. Office: Modular 2, 997-5470

This program offers a balanced course of study within the discipline of political science, built around lectures, colloquia, seminars, and supervised independent study. Its strongest asset is its distinguished faculty, with proximity to the libraries and research facilities of metropolitan New York as an added advantage. For the convenience of the working student, all classes are held after 4:30 pm, with the majority between 6:20 and 8:00 pm. Most classes average no more than 20 to 25 students, with many seminars and colloquia much smaller, thus allowing close contact between students and professors.

Please Note: Applications are not currently being accepted for this program.

Faculty

Rachal, Patricia, Chair, Associate Professor, Ph.D. 1979, Harvard University: American government, public policy and administration
Markovitz, Irving Leonard, Graduate Adviser, Professor, Ph.D. 1967, University of California at Berkeley: comparative government, developing areas, African politics
Altenstetter, Christa, Professor, Ph.D. 1967, University of Heidelberg: public policy, comparative politics, health policies
Bowman, John, Associate Professor, Ph.D. 1984, University of Chicago: American politics, political economy, computer application to political science
Gerassi, John, Professor, Ph.D. 1977, London School of Economics: international relations, political theory
Hacker, Andrew, Professor Emeritus, Ph.D.
All students must fulfill the following requirements:
1. 30 credits of graduate study with an average of 3.0 or better. The department recommends that 21 credit hours be taken in Political Science.
2. Students must have an area of specialization consisting of a minimum of three courses (9 credits). The program of studies must be approved by the department.
4. A reading knowledge of a foreign language relevant to the student’s specialization, approved by the department and demonstrated to its satisfaction; or a demonstrated proficiency in statistics.
5. Political Science 791, Thesis Research. To be taken after the student has completed at least 24 credits with an average of 3.0 or better, and has satisfied the language or statistics requirement.
6. Completion of a thesis to the satisfaction of a thesis Adviser and second reader who will award the grade.

Courses in Political Science
No more than 6 credits of 600-level courses may be accepted for the Master of Arts degree. Seminars are restricted to matriculants in the M.A. program. Candidates for other Master’s degrees may be admitted to 700-level courses with permission of the Graduate Adviser in political science.

610. Western Political Thought. 3 hr.; 3 cr. The basic ideas and systems of Western political thought from Plato through Marx. ††
630. Contemporary Comparative Government. 3 hr.; 3 cr. Governmental structures, ideological foundations, and the functioning of political institutions in selected European states. Prof. Schneider. ††
640. Public Administration. 3 hr.; 3 cr. Problems of organization and process: the administrator as manager; decision-making and information flow; administrative powers; procedural safeguards, authority, status, and leadership; internal politics and bureaucracy. ††
651. Government of the City of New York. 3 hr.; 3 cr. The government of the City of New York and its role in the metropolitan area; its relationship to the state and the federal government. Impact of economic and social forces on the political process. Prof. Krasner. ††
660. International Politics. 3 hr.; 3 cr. Basic factors in international politics and the struggle for power and order in world politics. Prof. Ofuatey-Kodjo. ††
701. Ancient and Medieval Political Thought. 3 hr.; 3 cr. An examination, both analytical and historical, of the principal political thinkers from Plato to Machiavelli. ††
in differing political systems; the formation of opinion; political socialization; interest groups; leaders and political behavior. A study of mass media of communications.††

736. Public Policy Analysis. 3 hr.; 3 cr. This course will review the important theories of the policy process with special attention to their application in an urban setting.

741. Administrative Law and Regulation. 3 hr.; 3 cr. Study of the requirements of procedural due process.††

744. Government and Defense. 3 hr.; 3 cr. Selected problems of national security in the space age: civil-military relations; individual liberties; the mobilization base; budgetary problems.††

747. Metropolitan Areas and Community Power Analysis. 3 hr.; 3 cr. The urban power structure and metropolitan complex: adjustment of governmental services to the metropolitan social and economic community. Prof. Krasner.††

748. Planning for Metropolitan Areas. 3 hr.; 3 cr. The planning process in metropolitans governments. Emphasis on regional problems as well as on special planning problems of the New York metropolitan area.††

760. United States Foreign Policy. 3 hr.; 3 cr. Analysis of domestic factors affecting the determination and conduct of U. S. foreign policy. Prof. Psomiades, Prof. Krasner.††

762. International Organization. 3 hr.; 3 cr. Analysis of the major global and regional international organizations; emphasis placed on the United Nations systems.††

763. International Law. 3 hr.; 3 cr. The nature, sources, and development of international law; the role and function of law in international society.††

764. Post-Soviet Foreign Policy. 3 hr.; 3 cr. Topics include continuity and change, ideology and national interest, power considerations, the present situation and future prospects.††

765. The International Politics of Africa. 3 hr.; 3 cr. An examination of Africa’s politics against the background of its changing political and social system. Prof. Markovitz, Prof. Ofuaty-Kodjo.††

766. Changing Concepts and Practices in International Cooperation. 3 hr.; 3 cr. Recent developments in international responsibility, especially in the fields of welfare and justice; human rights, minorities and cultural autonomy, forced migration and exchange of populations, refugees, genocide, health. Prof. Gerassi.††

767. Western and Post-Soviet Impacts on Underdeveloped Areas. 3 hr.; 3 cr. The problems arising from the impact of Western and Marxist ideas, policies, and political institutions on underdeveloped areas will be examined in the framework of Great Powers’ competition within the less developed parts of the world. Prof. Gerassi.††

768. Post-Soviet Union and Eastern Europe. 3 hr.; 3 cr. An analysis of the relationship between members of the former Communist bloc in Eastern Europe.††

770. Political Problems in the Development of Western and Non-Western States and Societies. 3 hr.; 3 cr. Selected problems of political stability; representative institutions; parties; the military and the bureaucracy. Prof. Markovitz.††

771.1-771.6. Political Systems in Developing Areas: Regional Analysis. 3 hr.; 3 cr. Political modernization of developing areas; process of transition from traditionalism to modernism; developing political institutions and changing political processes considered in specific regions (e.g., 771.1, South and Southeast Asia; 771.2, the Far East; 771.3, the Middle East; 771.4, Africa south of the Sahara; 771.5, North Africa; 771.6, Latin America). Prof. Markovitz, Prof. Psomiades, Prof. Schneider, Prof. Sun.†

772.1-772.3. Political Systems of Western European States. 3 hr.; 3 cr. Analysis of the political system of a European state. Each state will be treated in a separate course (e.g., 772.1, Great Britain; 772.2, France; 772.3, Germany). Prof. Altenstetter, Prof. Psomiades, Prof. Schneider.††

773. Post-Soviet Political Institutions. 3 hr.; 3 cr. An analysis of the theory and practice of Post-Soviet political institutions: the party, government, army, bureaucracy, and law. ††

776. Comparative Public Administration. 3 hr.; 3 cr. A comparative analysis of different bureaucratic structures and processes in the industrialized and developing areas of the world.††

777. Comparative Federalism. 3 hr.; 3 cr. Theories of federalism and the problems of centralization and decentralization; cooperative federalism and regional arrangements; administrative relationships, cultural factors in a federal union. Prof. Altenstetter.††

780. Colloquium in American Politics. 3 hr.; 3 cr. Content will vary from semester to semester. May be repeated for credit once if the content changes.††

781. Colloquium in Comparative Politics. 3 hr.; 3 cr. Content will vary from semester to semester. May be repeated for credit once if the content changes.††

782. Colloquium in Political Theory. 3 hr.; 3 cr. Content will vary from semester to semester. May be repeated for credit once if the content changes.††

783. Colloquium in International Relations. 3 hr.; 3 cr. Content will vary from semester to semester. May be repeated for credit once if the content changes.††

790. Seminar in Selected Topics in Political Science. 3 hr.; 3 cr. Topic will vary from semester to semester.††

791. Thesis Research. Hr. to be arranged; 3 cr. Preparation of an acceptable Master’s thesis under faculty supervision. Required of all candidates for the Master’s degree in political science. A candidate will register for the course once and credit will not be granted until the thesis is accepted.††

PSYCHOLOGY

Chair: Richard J. Bodnar

Head, Master of Arts Program and Graduate Adviser: Philip H. Ramsey

Dept. Office: SB E318, 997-3222

The Department of Psychology offers two programs of study each leading to the Master of Arts degree in psychology: General Psychology or Clinical Behavioral Applications in Mental Health Settings. The department also participates in the City University of New York doctoral program in psychology. (For more information, please address inquiries to: Ph.D. Programs in Psychology, Graduate School and University Center, 365 Fifth Avenue, NY, NY 10016-4309.) Qualified Master’s students may be admitted to Ph.D.-level courses in Learning Processes and Neuropsychology.

Faculty

Bodnar, Richard J., Chair, Professor, Ph.D. 1976, City University of New York: physiological, pharmacological, neurochemical, neuroanatomical, and behavioral mechanisms of pain inhibition and ingestive behavior

Ramsey, Philip H., Head, Master of Arts Program and Graduate Adviser, Professor, Ph.D. 1970, Hofstra University; multiple comparison procedures, significance testing, simulation, and test theory

Baker, A. Harvey, Professor, Ph.D. 1968, Clark University: perceptual style and personality, psychotherapy

Berman, Doreen, Associate Professor, Ph.D. 1971, City University of New York: developmental neuropsychology,
models of minimal brain damage, control of movement and electrophysiological correlates of somatic sensory function in monkeys

Borod, Joan, Professor, Ph.D. 1975, Case Western Reserve University: clinical neuropsychology

Brown, Bruce L., Professor, Ph.D. 1968, Yale University: classical conditioning, autoshaping, stimulus control of behavior, schedule interaction, two-factor theory, consummatory behavior

Croll, Susan, Associate Professor, Ph.D. 1992, City University of New York: neurobiology of dementia and epilepsy

Ehrlichman, Howard, Professor, Ph.D. 1972, New School for Social Research: emotions, individual differences, hemispheric laterality, hypnosis

Fields, Lanny, Professor, Ph.D. 1968, Columbia University: stimulus equivalence

Fleischer, Susan, Associate Professor, Ph.D. 1973, Columbia University: behavioral consequences of infantile malnutrition, biological basis of sexual behavior and of sex differences in behavior, psychotherapy

Foldi, Nancy, Associate Professor, Ph.D. 1983, Clark University: Alzheimer’s disease, attention, neuropsychology, geriatric diseases

Halperin, Jeffrey, Professor, Ph.D. 1976, City University of New York: child clinical neuropsychology, childhood behavior disorders, and psychopathology

Hemmes, Nancy, Professor, Ph.D. 1972, University of North Carolina: learning theory, temporal control of behavior, habit control

Hollander, Melvyn, Assistant Professor, Ph.D. 1968, University of Oklahoma: treatment of psychopathology, training of mental health workers, behavioral medicine, mental retardation

Johnson, Ray, Jr., Professor, Ph.D. 1979, University of Illinois: electrophysiological measures of normal and abnormal cognitive brain function, short- and long-term memory, event-related brain potentials, psychophysiology

Lanson, Robert N., Associate Professor, Ph.D. 1968, Columbia University: experimental analysis of human and animal behavior, sensation and perception

Moreau, Tina, Associate Professor, Ph.D. 1968, City University of New York: sensory organization, habituation, lateral differentiation in human newborn, development of inter- and intra-sensory integration

Poulson, Claire, Professor, Ph.D. 1974, University of Kansas: experimental analysis of human behavior, applied behavioral analysis, language development, infant learning, autism, and other developmental disabilities

Ranaldi, Robert, Assistant Professor, Ph.D. 1994, Queens University, Canada: neurobiology of learning and motivation

Sturmeq, Peter, Associate Professor, Ph.D. 1983, University of Birmingham, UK: developmental disabilities, autism, mental retardation, behavior analysis

Winncik, Wilma, Professor, Ph.D. 1949, Columbia University: verbal learning and short-term memory, imagery in memory, tachistoscopic recognition, perceptual constancy

Witkin, Arthur, Associate Professor, Ph.D. 1956, New York University: personnel evaluation and development, industrial and organizational psychology, vocational counseling, employee motivation

PROGRAMS LEADING TO THE MASTER OF ARTS DEGREE IN PSYCHOLOGY

Either full-time or part-time attendance is possible. Students may be admitted in the Fall or Spring.

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

1. Fifteen credits in undergraduate psychology is considered the minimum requirement for admission to the M.A. program, which should include an undergraduate laboratory course in experimental psychology and a course in psychological statistical methods or their equivalents. A student who has not had at least one semester laboratory course in experimental psychology and a one-semester course in statistical methods or their equivalents, but whose record of achievement is otherwise high, will be asked to make up the deficiency through taking a comparable course without credit in an undergraduate college.

2. A minimum grade average index of B (3.0) in undergraduate courses.

3. A minimum grade average index of B (3.0) or the equivalent in the undergraduate field of concentration or, with permission of the department, in related fields.

4. Three letters of recommendation, at least two of which should be from instructors who are in a position to attest to the applicant’s capacity to complete successfully a program of graduate studies. In some cases a personal interview with the Graduate Adviser or with some other members of the Department may be required.

5. The applicant is required to submit results in both the aptitude test and the advanced test in psychology of the Graduate Record Examination. Applicants should apply directly to the Educational Testing Service, Princeton, New Jersey 08541, or Box 27896, Los Angeles, California 90027, for full information and arrangements to take the test. Students are advised to take the Graduate Record Examination no later than February for September admission. No final consideration may be given to any application unless the Admissions Office receives the results of the examination by the date applications are due.

6. Applicants whose first language was not English and who were educated in a country where English is not the official language must present a minimum score of 600 on the Test of English as a Foreign Language (TOEFL) to be eligible for admission to the M.A. programs in Psychology.

7. Possession of the requirements does not automatically insure admission to the programs. Each record, including grades, letters of recommendation, Graduate Record Examination scores, and information from present and former instructors and employers, will be carefully examined by a Graduate Committee on Admissions. Departmental interviews may be required prior to a decision.

8. Specific requirements may be waived by the Graduate Committee on Admissions for students of special promise.

Requirements for the Master of Arts Degree

These requirements are in addition to general requirements for the Master of Arts degree.

General Psychology Program (30 credits plus thesis or 36 credits without thesis)

This program is intended for students who:

1. want to explore their interests further or expand their backgrounds in psychology;
2. want to learn more about the area of mental health (but without seeking the field placement and special coursework offered in the Clinical Behavioral Applications program); and/or
3. see themselves en route to doctoral study, with the goal of pursuing a career as independent researchers, particularly in the areas of neuropsychology, learning processes, or experimental psychology.

Requirements for the General Psychology Program

1. Ten semester courses in psychology (30 credits), which must be distributed as follows:
   a) History (Psych. 700)
   b) Advanced Experimental Psych. I (Psych. 701)
   c) Statistical Methods I (Psych. 705)
   d) 7 additional courses distributed over at least three of the following areas: Developmental (e.g., Psych. 720 or 721), Learning (Psych. 730 or 731), Perception (Psych. 735), Personality (Psych. 740), Physiological (Psych. 708.1, 708.2, 708.3, or 710 or 711), Psychopathology (Psych. 755 or 756), and Social (Psych. 746)
2. Students may complete the program in
30 or 36 credits, as follows:

a) Students who elect to complete the program in 30 credits must take and pass a comprehensive examination and submit an approved thesis which may be either a literature review or an empirical investigation.

b) Students whose grade-point averages are 3.7 or better may elect to complete the program in 30 credits and do an empirical thesis. The comprehensive examination will be waived.

c) Students who elect to complete the program in 36 credits are required to take and pass a comprehensive examination.

Clinical Behavioral Applications in Mental Health Settings Program (48 credits with no thesis)

The Clinical Behavioral Applications program features course work and training in the intervention modality of applied behavior analysis. The program also includes training in intellectual and personality assessment. A broad perspective on contemporary clinical practice and research is provided by a number of academic survey courses in areas such as psychotherapy and counseling, psychoanalytic theory, and psychopathology. Research training in single-subject design and statistics is included in this program.

The Clinical Behavioral Applications program, which includes practica and 630 hours of fieldwork experience, is designed to prepare students for M.A.-level careers using behavioral assessment and intervention skills.

Type of Training

The CBAMHS Program seeks to provide students with skills in Applied Behavior Analysis (a type of behavior modification) and in intelligence and personality testing. Extensive hands-on experience is provided in the two practica associated with the two Applied Behavior Analysis courses and in the Externships. Typically, each student spends two semesters out in the field working in two different Extenship settings. The first Extenship experience focuses on mastering Applied Behavior Analytic skills; the second focuses on mastering skills in intelligence testing and personality testing (with objective-type instruments).

Type of Settings and Nature of Client Populations

It is important to note that the actual training during the two practica and the Externships involves direct contact with low-functioning populations. Students are assigned to such agencies as the Association for Children with Retarded Mental Development, where the trainees work with adult retardates. Students have also been assigned to agencies where they work with adolescents diagnosed as autistic. Most of the testing training is carried out at a large state psychiatric center (e.g., Creedmoor).

Institutions (federal, state, local, and private) typically employing graduates with training in the intervention modality of Applied Behavior Analysis include psychiatric facilities and institutions for the developmentally disabled, for emotionally disturbed children and adults, and for geriatric individuals. Applicants should note that this program does not prepare the student to function either as a School Psychologist, or as a Clinical Psychologist at the level of independent practice for which both a doctoral degree and a state license are required.

Full-time CBA students can complete the requirements for the degree in four semesters by taking both day and evening courses. This includes a 630-hour externship (field-work placement) taken during the last two semesters of study.

Courses are offered during the day, afternoon, and evening. Part-time students can therefore be accommodated and can complete requirements more slowly, in accordance with their schedules. However, all students must arrange their schedules to accommodate the externship, which is held during daytime-weekday hours only.

Degree Requirements for the Clinical Behavioral Applications Program (48 credits)

1. Completion of following courses in psychology:

   760. Psychometric Methods
   774. Assessment of Intellectual Functioning
   771. Ethical Issues in Psychology (not to be confused with U771)
   730.01 & .02. Theory and Method in Applied Behavioral Analysis I and II (with practica)
   764. Assessment of Personality with Standardized Objective Measures
   743. Survey of Psychotherapy and Counseling: A Case Study Approach
   755. Psychopathology I
   748. Self-Awareness Training I or 749
   705. Statistical Methods in Psychology I

2. An externship (fieldwork placement) of at least 630 hours taken during the last two semesters of study (Psych. 795, 796). This externship is offered during daytime-weekday hours only.

   4. Nine credits of elective courses.
   5. Completion with a passing grade of a skills-oriented Clinical Behavioral Applications Comprehensive Examination, which includes evaluation of the student’s skills in assessment and behavioral intervention.

   Responsible training for work in the area of mental health requires that students have the personal characteristics appropriate for workers in a mental health setting. At the end of each semester, the Psychology Department’s M.A. Committee will evaluate each student’s suitability for continuation in the program, considering information from all sources. The decision that a student must leave the program on personal grounds will be made by the Program Head and the Department’s M.A. Committee. This decision may be appealed to a special Ad Hoc Appeals Committee, which will include no one who participated in the initial evaluation.

Requirements for Continuance in the Psychology M.A. Program

All students enrolled in either Master’s program who, after taking 12 graduate credits, have not achieved an academic index of 3.0, will be placed on probation or dropped from the Master’s program in psychology.

Non-Matriculated Studies

Certain graduate courses are open to qualified professionals and career specialists in psychology or other fields. These courses may fulfill a particular need for skill acquisition or credential maintenance for teachers, social workers, et al. Students who believe that a course or course sequence is relevant should contact the Head of the Master of Arts program regarding suitability for enrollment. Applicants for non-matriculated status must get the signature of the Head of the M.A. program on their applications before submitting them to the Graduate Admissions Office. A lifetime cumulative total of no more than 12 credits may be taken on a non-matriculated basis.

Advanced Certificate Program in Applied Behavior Analysis

The goal of the 22-credit Advanced Certificate Program is to equip post-baccalaureate students to design, deliver, and evaluate individualized behavioral interventions for children and adults with developmental or acquired disabilities. Successful students of the program will be prepared for the New York State Department of Education certification in applied behavior analysis. It should be noted that this is not a teacher certification program; advanced certificate graduates will be encouraged to pursue any interest in post-baccalaureate degrees or teacher certification programs with the appropriate department.

Requirements for Matriculation and Continuation in the Program

Applicants for admission must possess a B.A. or B.S. degree with an earned grade-point average of at least 3.0 (B). Maintenance of a grade-point average of at least 3.0 through the entire program is required.
Applicants to the program will also be required to demonstrate an academic background in psychology, developmental disabilities, education, or to have field-based experience. Transfer credits from other programs will not be applied to the completion of this program.

Curriculum of the Program

The curriculum for the 22-credit Advanced Certificate Program in Applied Behavior Analysis will include a set of required, core courses (13 credits) and a specialization (9 credits).

1. Core courses required (13 credits)
   - 730.01 Theory and Method in Applied Behavior Analysis I
   - 730.05 Practicum in Applied Behavior Analysis I
   - 771 Ethical Issues in Psychology
   - 730.02 Theory and Method in Applied Behavior Analysis II
   - 730.06 Practicum in Applied Behavior Analysis II

2. Specializations (9 credits)
   Specialization courses provide an in-depth concentration on the concepts and methods related to one specific area. Certificate candidates may elect a 9-credit specialization in any one of the following: Developmental Disabilities; Education or Special Education; or Educational Administration. The following is a sample specialization. The 9 credits toward the specialization in Developmental Disabilities may be selected from the following courses:
   - 720.01 Developmental Disabilities I
   - 720.02 Developmental Disabilities II
   - 709 Proseminar (Behavioral Interventions in Developmental Disabilities)
   - 730.03 Behavioral Interventions with Children

Selection of courses for the other specializations are to be made in consultation with the graduate adviser.

Courses in Psychology

The general prerequisites for courses in the 700 category are matriculation for the Master of Arts in Psychology (or matriculation for the M. S. in Education with a major in School Psychology for Psychology 720, 721, 730, 735, 740, and 760), or permission of department.

Note: Certain M.A.-level courses are designed especially for students in the Clinical Behavioral Applications in Mental Health Settings Program. Enrollment is limited and all other students need special permission.

700. History of Psychology. 2 lec. hr. plus conf.; 3 cr. Prereq.: At least 15 undergraduate credits in psychology, including Psychological Statistics and a laboratory course in Experimental Psychology. Modern psychological problems are seen in historical perspective. Topics include the mind-body problem, motivation and empiricism, hedonism and reinforcement, hypnotism and spiritualism, psychophysiology and psychopathology. The nineteenth- and twentieth-century schools of psychology – structuralism, functionalism, Gestalt, psychoanalysis, and behaviorism – are reviewed, as are the contributions of philosophers and physical, biological, and social scientists.

701. Advanced Experimental Psychology I. 2 lec., 4 lab. hr.; 4 cr. Prereq.: Undergraduate courses in: a) Experimental Psychology with laboratory, and b) Psychological Statistics. A detailed examination and analysis of the ways in which experimental inquiry approaches psychological questions. The problems and paradigms typical of the various areas of the field are studied, and experiments from the literature scrutinized.

Particular attention is paid to potential sources of error and problems of control in different kinds of experiments and to the use of experimental design to minimize error. M.A. students will undertake an original research study to fulfill the laboratory requirement.

703. Design of Psychological Research. 2 lec. hr. plus conf.; 3 cr. Prior approval of the research project by both the Faculty Adviser and Graduate Adviser is required before registering. Individual research projects.

705. Statistical Methods in Psychology I. 2 lec., 2 conf. or lab. hr.; 3 cr. Prereq.: An undergraduate course in statistical methods. Descriptive and inferential statistics, including t-tests, correlation, chi square, tests of normality, and distribution-free procedures. Other topics include independent groups, repeated measures and factorial ANOVA, multiple comparisons, multiple regression and ANCOVA.

706. Statistical Methods in Psychology II. 2 lec., 2 conf. or lab. hr.; 3 cr. Prereq.: Psychology 705. Multivariate methods including MANOVA, factor analysis, canonical correlations, discriminant functions analysis, and related topics.

708. Basic Neuroscience: Neuroanatomy. 3 hr.; 3 cr. Prereq.: Permission of instructor. This course, typically taken in conjunction with 708.2 Basic Neuroscience: Neurophysiology and 708.3 Basic Neuroscience: Neurochemistry, introduces students to the organizational structure of the human brain. Lectures include slide materials of gross neuroanatomy, cerebral vasculature, spinal organization, and internal structure from medulla to cortex. Functional system mini-lectures are also provided, as is a 5-laboratory component, to give students hands-on experience.

708.2. Basic Neuroscience: Neurophysiology. 3 lec. hr.; 3 cr. Prereq.: Permission of instructor. This is an introductory course in neurophysiology, including an introduction to electrical properties of membranes, ionic basis of resting, and action and synaptic potentials.

708.3. Basic Neuroscience: Neurochemistry. 3 lec. hr.; 3 cr. Prereq.: Permission of instructor. A course on the basic chemistry and metabolism of the brain, including neurotransmitters, receptors, second messengers, and the neurochemistry of neural development.

708.4. Physiological Psychology. 3 hr.; 3 cr. Prereq.: A course in experimental psychology. A survey dealing with the basic physiological, anatomical, and chemical functions as they relate to behavior. Topics include sensory and motor function, drive states and motivation, learning, and “higher” processes.

710. Brain and Behavior I. 3 lec. hr.; 3 cr. Prereq.: At least one graduate level course in neural science and one undergraduate course in physiological psychology. This course and Psychology 711 comprise a two-semester sequence which covers the usual topics found in physiological psychology courses but assumes the student has a firm background in modern neuroscience. Among the topics covered in this sequence are sensory processes, motor systems, development, endocrinological approaches in defining behavioral processes, learning, memory, motivation, emotion, sleep, and arousal. The specific sequence of topics to be covered in this two-semester sequence is subject to change each academic year.

711. Brain and Behavior II. 3 lec. hr.; 3 cr. Prereq.: Psychology 710. This is the completion of a two-semester course sequence. (See Psychology 710.)

720. Developmental Psychology I. 2 lec. hr. plus conf.; 3 cr. Prereq.: One graduate or undergraduate course in development or child psychology (or its equivalent). An introduction to the major concepts, principles, theories, and methods of developmental and child psychology (e.g., critical periods, nature-nurture issue, relation of phylogeny to ontogeny).

720.01. Developmental Disabilities I. 2 hr.; 2 cr. Prereq.: Permission of instructor and a course in developmental psychology. This course is an overview of the field of mental retardation and development disabilities. The content includes readings, lecture, and discussion on the history of the field, the concepts of intelligence and adaptive behavior, classification systems, litigation on behalf of people with
developmental disabilities, etiology, service-delivery systems, the special case of autism, a review of early intervention programs and research, language programming, and a review of attention, memory and cognition. Readings will be included on behavioral assessment and intervention strategies for people with developmental disabilities.

720.02. Developmental Disabilities II. 3 hr.; 3 cr. Prereq.: Psychology 720.01 or permission of instructor. This course will provide students with an overview of research issues concerning people with developmental disabilities and their families. A major focus of the course is on topics related to adulthood. Students are encouraged to analyze extant research and to propose new solutions to problems in this area.

720.1. Lifespan Developmental Psychology. 3 hr.; 3 cr. Prereq.: Undergraduate or graduate course in child or developmental psychology. A lifespan perspective on the development of sensory and perceptual functions, language, cognition, and psychosocial adaptation, from conception to old age and death.

721. Developmental Psychology II. 2 lec. hr. plus conf.; 3 cr. Prereq.: At least one graduate or undergraduate course in developmental or child psychology (or its equivalent). This course covers the phylogenesis and ontogenesis (in humans) of basic sensory processes, perceptual functions, cognitive-intellectual skills, and language and communication. The focus is on human development. Requirements include an oral and written report on a selected topic. Note: Psychology 720 is NOT a prerequisite to Psychology 721, and Psychology 721 is NOT a continuation of Psychology 720.

730. Psychology of Learning. 2 lec. hr. plus conf.; 3 cr. Prereq.: Experimental Psychology and Statistical Methods in Psychology I. An examination of representative investigations and theories of learning.†

*730.01. Theory and Method in Applied Behavior Analysis I. (Formerly 770.1.) 2 lec., 6 lab. hr.; 4 cr. Prereq.: Undergraduate courses in statistics and research design (experimental psychology with laboratory) and permission of the Executive Committee of the M.A. Program (permission should be requested three months prior to registration for this course.) Introduction to basic theory and methodology in the field of applied behavioral analysis, including: 1) the technical language; 2) operational definition; 3) assessment of reliability and generality; 4) data analysis; 5) research design. Students will conduct supervised laboratory and fieldwork as part of the requirements.

*730.02. Theory and Method in Applied Behavior Analysis II. (Formerly 771.1.) 2 lec., 6 lab. hr.; 4 cr. Prereq.: Psychology 730.01 (formerly 770.1) and permission of the Executive Committee of the M.A. Program. (Permission should be requested three months prior to registration for this course.) An advanced course in theory, methodology, and professional issues in the field of applied behavioral analysis, focusing on contemporary issues in behavioral assessment strategies, single case research design, data evaluation, program development, and learning processes, and providing the student with the following skills: 1) competence in critically analyzing behavioral analytic research articles; 2) writing applied research proposals; 3) carrying out applied behavioral research in the field; 4) writing applied research/treatment reports for dissemination in professional journals and at professional conferences.

730.03. Behavioral Interventions with Children. 3 hr.; 3 cr. Prereq.: Psychology 730.11 (formerly 770) or 730.01 (formerly 770.1) and 730.12 (formerly 771) or 730.02 (formerly 771.1) and one undergraduate course in child or developmental psychology. Following a review of normal child development and childhood disorders, this course will consider behavior modification in the context of home, institutional, and community settings. Problems typical to each setting will be discussed from the points of view of both research and treatment. Topics to be considered include: toilet training, feeding disorders, language training, fears and phobias, hyperactivity, and autistic behaviors. This course is recommended for students who intend to undertake fieldwork involving children.

730.04. Supervised Practicum in Applied Behavior Analysis. 3 hr.; 3 cr. (8–12 fieldwork hours per week plus 2 hours supervision with Queens College faculty). Prereq.: Psychology 730.01 (formerly 770.1) and 730.02 (formerly 771.1) or comparable background. Students must receive prior consent of instructor, which will be based on a personal interview. Students must also sign an acknowledgement of fieldwork regulations. This course is designed as a supervised field experience in agencies and institutional settings where behavior modification is in practice. Structured experiences include behavior assessment, as well as the development, administration, and evaluation of behavior modification programs for individuals and groups. Students will be required to purchase a malpractice insurance policy at a small fee.

Fieldwork Regulations At any time, either the student or the fieldwork supervisor may initiate a request for termination. Students who are thought to lack certain of the personal qualifications needed in patient/client relationships may be required to discontinue the fieldwork. Appeals from the decision of the fieldwork supervisor will be considered.

730.05. Practicum in Applied Behavior Analysis I. 5 hr.; 2 cr. Coreq.: 730.01 and 771, and permission of the Executive Committee of the Psychology M.A. Program. Introduction to field applications of basic theory and methodology of applied behavioral analysis, including: 1) the technical language; 2) operational definition; 3) assessment of reliability and generality; 4) data analysis; 5) research design in natural settings. Students will attend practicum setting 8 hours per week for 10 weeks. Group supervision will be provided in the weekly small group settings of 730.01.

730.06. Practicum in Applied Behavior Analysis II. 8 hr.; 3 cr. Coreq.: 730.02 and permission of the Executive Committee of the Psychology M.A. Program. An advanced practicum in the application of theory, methodology, and professional issues in the field of applied behavior, focusing on contemporary issues in behavior assessment strategies, single case design, data evaluation, program development, and learning processes, and carrying out applied behavior research in the field. Students will attend practicum setting 8 hours per week for 15 weeks. Group supervision will be provided in the weekly small group meetings of 730.02 on campus.

730.11. Theory and Practice of Behavior Modification I: Assessment and Techniques. (Formerly 770) 3 hr.; 3 cr. Prereq.: Undergraduate courses or equivalent experience in psychopathology, learning, statistics, and experimental psychology. Equivalence of experience must be evaluated by the Department. This course presents a behavioral framework for the understanding and treatment of clinical problems. Following an introduction to basic learning paradigms, a variety of behavioral intervention techniques is examined, selected ones are demonstrated and the supportive research is reviewed. Techniques covered include assertion training, operant and classical conditioning, systematic desensitization, relaxation/biofeedback training, cognitive restructuring, modeling, and aversive methods. The importance of using these techniques with clinical sensitivity and in the context of an effective helping relationship is highlighted.

730.12. Theory and Practice of Behavior Modification II: Applications. (Formerly 771) 3 hr.; 3 cr. Prereq.: Psychology 730.11

†Offered either Fall or Spring; see Class Schedule.
††May be offered; see Class Schedule.
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(formerly 770). This course is a continuation of 730.11 with an emphasis on the complex integration of assessment, research, and techniques in behavioral treatment programs. Treatment programs are illustrated for a variety of disorders.

731. Stimulus Control of Behavior. 2 lec., 4 lab hr.; 4 cr. Emphasis is upon the acquisition and maintenance of discriminative behavior. Topics include discrimination training, generalization, perception, signal detection, and psycho-physics.†

732. Motivation and Reinforcement. 2 lec., 4 lab hr.; 4 cr. The role of motivation in behavior theory, and the experimental manipulation of reinforcement variables as these interact with motivational variables.†


735. Psychology of Perception. 2 lec. hr. plus conf.; 3 cr. Prereq.: An undergraduate or graduate course in experimental psychology. The phenomenology, psychophysics, and psychophysiology of perception are discussed. Topics may include perceptual organization and development, illusions, constancies, and the Ames demonstrations. Heredity and environment interactions are considered in relation to perceptual theories (Gestalt, transactionism, etc.).

738. Cognition. 3 hr.; 3 cr. This course focuses on the study of cognition in humans. Among the topics covered are attention, recognition of patterns (such as speech and visual forms), imagery, storage and retrieval of information from short-term and long-term memory, and the organization of thought and language. A central theme of the course is a focus on structure and organization in these various cognitive processes.

740. Personality. 2 lec. hr. plus conf.; 3 cr. Discussion and reports on selected topics in the field.

741. Psychoanalytic Theories: The Classical Freudian Approach. 2 lec. hr. plus conf.; 3 cr. Prereq.: An undergraduate or graduate course in personality theory. A study of basic psychoanalytic writings beginning with Freud’s 1895 Studies in Hysteria, and tracing the major trends in the development of psychoanalytic theory and clinical practice throughout Freud’s life. Readings will be drawn primarily from the collected works of Freud.

*743. Survey of Psychotherapy and Counseling: A Case Study Approach. 2 lec. hr. plus conf.; 3 cr. This course surveys the major approaches to psychotherapy and counseling, including classical Freudian psychoanalysis, behavior therapy, and such humanistic-existential approaches as client-centered therapy, Gestalt therapy, and transactional analysis. Special attention will be given to the way in which each approach conceptualizes and interprets a given life history. Students will be expected to develop skills in writing up a case study based on case protocols provided by the instructor. Note: Psych. 743 and 743.1 cannot both be counted for credit toward the M.A. degrees in Psychology.

743. 1. Survey of Psychotherapy and Counseling. 2 lec. hr. plus conf.; 3 cr. This course surveys the major approaches to psychotherapy and counseling, including classical Freudian psychoanalysis, behavior therapy, and such humanistic-existential approaches as client-centered therapy, Gestalt therapy, and transactional analysis. Special attention will be given to the way in which each approach conceptualizes and interprets a given life history. Students will be expected to develop skills in writing up a case study based on case protocols provided by the instructor. Note: Psych. 743 and 743.1 cannot both be counted for credit toward the M.A. degrees in Psychology.

745. Human Motivation. 2 hr. plus conf.; 3 cr. Prereq.: One graduate course in learning theory or personality psychology. Review of theory and research on major current topics such as: arousal, curiosity, anxiety, achievement, motivation. Some consideration will be given to various methods of measuring human motivation.

746. Social Psychology. 2 lec. hr. plus conf.; 3 cr. Prereq.: An undergraduate or graduate course in experimental psychology. Among the topics to be covered are: 1) foundations of modern social psychology; 2) physiological process and social man; 3) social interaction and social process; 4) the nature and characteristics of social groupings; 5) types of social groupings; 6) the relations between groups; 7) social change and stability.

748, 749. Self-Awareness Training I and II. 2 lab. hr. plus conf.; 1 cr. Note: Psychology 749 does not require Psychology 748 as a prerequisite. Either one of these courses may be taken independently of the other. This course seeks to improve the intervention skills of the participants by increasing their self-awareness. Combining both didactic and experiential elements, the course encourages each participant to become more sensitive to other participants and to his or her own interpersonal behavior, while at the same time encouraging personal growth and development. A term paper based on course readings is required.

753. Psychobiology of Sex and Gender. 2 lec. hr. plus conf.; 3 cr. Prereq. or coreq.: one graduate or undergraduate course in developmental or child psychology. This course is concerned with behavioral similarities and differences between males and females, both human and animal. Contributions of biological, psychological, social, and cultural factors are considered, and a variety of theoretical approaches to gender are explored.

754. Behavioral Science and Business. 2 lec. hr. plus conf.; 3 cr. The behavioral science principles that can be applied to employee-employer relationships are considered. Basic problems such as personnel promotion, motivation, training, measurement of job satisfaction, increasing worker efficiency, and merit ratings are reviewed from the standpoint of the psychologist in industry.

755. Psychopathology I. 2 lec. hr. plus conf.; 3 cr. Prereq.: a) Introductory psychology and b) personality theory or psychopathology, or permission of the instructor. Note: Psychology 756 does not require this course as a prerequisite. Identification, diagnosis, assessment, and treatment of psychopathological conditions. Several models of psychopathology are considered, including psychological (cognitive, behavioral, and psychoanalytic), medical, sociocultural, and mixed models. The study of anxiety and anxiety disorders is emphasized. The other syndromes considered are somatoform, dissociative, psychophysiological, and personality disorders.

756. Psychopathology II. 2 lec. hr. plus conf.; 3 cr. Prereq.: Psychology 755 is not required as a prerequisite for this course. Prerequisites are: undergraduate courses in: a) introductory psychology and b) personality theory or psychopathology, or permission of the instructor. This course encompasses psychosis, mood, and organic mental disorders, among other topics.

760. Psychometric Methods. 2 lec. hr. plus conf.; 3 cr. Prereq.: An undergraduate or graduate course in statistics. A general introduction to psychometric methods which focuses on administration, standardization, norms, reliability, validity, and test construction. This course provides exposure to tests from a wide range of areas: e.g., educational and occupational, interests, and projective tests. Lectures cover the history of intelligence testing and the development of techniques for assessing personality and psychiatric disorders.

761. Measurement of Abilities. 2 lec. plus 2 conf. or lab. hr.; 3 cr. Prereq.: One course in psychological testing. An advanced course in the measurement of intellectual and other abilities.

*764. Assessment of Personality with Standardized Objective Measures. 1 lec., 2 lab hr.; 2 cr. Prereq.: Permission of the Executive Committee of the M.A. Program. (Permission should be requested three months prior to registration for this course.) An introduction to the administration and
interpretation of commonly used objective standardized rating scales and objective inventories. Instruments covered will include the Hamilton and Zung Scales for depression and Brief Psychiatric Rating Scale, and MMPI, and the CPI.

771. Ethical Issues in Psychology. 15 hr. per semester; 1 cr. Prereq.: Students must have completed or must be concurrently taking Psychology 795 or 796, or permission of instructor. (This course cannot be taken for credit in addition to U771, which can be taken at the Graduate Center.) This course examines ethical and legal standards which apply to psychologists and others involved in the application of psychological principles. Emphasis here will be placed on ethical standards recognized by and for professionals in applied settings and on laws concerning professional practice.

*774. Assessment of Intellectual Functioning. 1 lec., 4 lab. hr.; 3 cr. Prereq.: Permission of the M.A. Committee. (Permission should be requested three months prior to registration for this course.) Prereq. or coreq.: Psychology 760. This course provides experience in the administration, interpretation, and written presentation of findings from a variety of measures of intellectual functioning, e.g., the Wechsler tests. Students will be trained to integrate clinical observations, developmental theories, theories of cognitive style, and neuropsychological research in their test reports. Students will also develop a familiarity and working knowledge of a broad range of additional assessment techniques, e.g., the Stanford-Binet.

777. Practicum in Interviewing and Personality Appraisal. 2 lec., 2 lab. hr.; 3 cr. A systematic examination of interview techniques and methods of personality assessment through direct communication. Students carry on regular intake interviews with clients and prepare appraisal reports.

780. Quantitative Methods in Psychology. 2 lec. hr. plus conf.; 3 cr. Prereq.: Psychology 705. Emphasis will be placed on the mathematical procedures used in psychological theories and in the theoretical analysis of psychological data. Possible topics are curve-fitting procedures for straight lines, polynomials, and growth functions; matrix methods and Markov processes; and statistical decision theory and signal detection theories.

788. Cooperative Education Placement. Prereq.: Permission of department. Experimental learning through placement. Opportunities to test and demonstrate academic learning in an organizational setting. Students receive academic credit as well as a stipend from the placement. No more than 6 credits may be taken in Cooperative Education Placement.

788.1. 1 hr.; 1 cr. 788.2. 2 hr.; 2 cr.
788.3. 3 hr.; 3 cr. 788.4. 4 hr.; 4 cr.
788.5. 5 hr.; 5 cr. 788.6. 6 hr.; 6 cr.

791. Seminar in Selected Topics in Psychology. Prereq.: Permission of instructor. Content will be determined by the special interest of students and the instructor. The course may be repeated for credit by permission of the department as the topic changes.

791.1. 1 hr.; 1 cr. 791.2. 2 hr.; 2 cr.
791.3. 3 hr.; 3 cr. 791.4. 4 hr.; 4 cr.

**795, 796, 797. Fieldwork (Externship). Each of the following three courses is required of all students in the Clinical Behavioral Applications in Mental Health Settings M.A. Program. Total hours of fieldwork for the three courses: 630 (i.e., 21 hours per week for 30 weeks). Total credits: 9 (3 credits for each course). Prereq. for each course: 1) Permission of the M.A. Committee; 2) Full-time students in the CBA Program normally start fieldwork in their third semester after completing the following courses: 748, 749, 760, 764, 730.01 (formerly 770.1), and 774. The work for these fieldwork courses will often extend beyond a given semester. In such cases a provisional grade of P will be given at the end of the semester, and a letter grade will be given when the work of the course is completed.

795. Fieldwork (Externship): Applied Behavior Analysis. 3 hr.; 3 cr. Prereq.: See above. This fieldwork placement will be conducted at various state or private mental health institutions and/or other settings and will focus on developing applied behavior analysis skills. Each student will complete an applied behavior analytic intervention and write a report suitable for publication.

796. Fieldwork (Externship): Assessment of Intelligence and Personality. 3 hr.; 3 cr. Prereq.: See above. This fieldwork placement will be conducted at various state or private mental health institutions and/or other settings and will focus on developing skills in the assessment of intellectual and personality functioning. Each student will administer 10 psychological test batteries and write 10 interpretive test reports.

797. Fieldwork (Externship): Professional Functioning in a Mental Health Setting. 3 hr.; 3 cr. Prereq.: See above. Externs will meet in a 2-hour on-campus seminar (weekly for the fall semester or biweekly for the academic year), focusing on professional functioning in a mental health setting. Topics may include: conducting an interview (including role-playing aimed at developing interview skills); integrating information from diverse sources in writing up an intake report and/or results of a test battery; relating to other staff members; confidentiality; professional ethics, etc.

799. Research Practicum. 1 hr.; 1 cr. This course may be repeated for credit for a maximum of 4 semesters of participation. Prereq.: Permission of instructor. Each student must submit a proposal (approved by his/her sponsor) with a detailed plan for the practicum. Approval of the Head of the M.A. Program is required before the start of the semester in which the practicum is to take place. Students will be provided with an internship in research through practical experience in the laboratory with a member of the department. The actual number of hours which the student will work in a given laboratory will be mutually arranged with the student’s laboratory mentor. Each practicum will include both direct laboratory experience and guided reading of pertinent secondary and primary literature.

Course in Reserve

712. Recording and Stimulatory Techniques in Physiological Psychology.

*Course is open to all matriculated students enrolled in either the Clinical Behavioral Applications in Mental Health Settings M.A. Program or the CUNY Learning Processes Ph.D. Sub-Program. Enrollment is limited. All other students must obtain special permission from the Head of the M.A. Program.

**Fieldwork courses are open to all matriculated M.A. students in the CBA Program, for whom the courses are required. Enrollment is limited. All other students, including CUNYPh.D. students, must obtain special permission from the Head of the M.A. Program.
SOCIAL SCIENCES

Program Director and Graduate Adviser: Martin Hanlon
Dept. Office: Razran Hall 367, 997-5131

The Master of Arts Degree in Social Sciences is an interdisciplinary program providing training and knowledge for career development and advancement in the social sciences in settings that require expertise in social organization, public policy analysis, and societal diversity. Students interested in careers in education, government, management, community organization, unions, health care delivery, and social services learn how to apply social science perspectives and to utilize social research in these fields in a Master’s program that brings together insights, findings, and methods from the various social science disciplines.

Faculty
The faculty of the M.A. Program in the Social Sciences is interdisciplinary. Courses are taught by members of the departments of the Division of Social Sciences: Anthropology, Economics, History, Philosophy, Political Science, Sociology, Urban Studies, and of the Division of Education.

Requirements for Admission
These requirements are in addition to the general requirements for admission.
1. Candidates must have a minimum undergraduate grade-point average of B (3.0); and
2. Sufficient undergraduate courses in the social sciences to be prepared for graduate study, including research methods. Job experience using social science knowledge and methods may be substituted for undergraduate course requirements.

Degree Requirements
The Master of Arts Degree in the Social Sciences requires a total of 36 credit hours. This includes the completion of a Master’s thesis that is supervised by a faculty member.

Core Requirements
All students must take four core curriculum courses, totaling 12 credits:
710. Diversity in an Urban Setting
720. Varieties of Social Science Methods
730. Computer Methods for the Social Sciences
790. Master’s Capstone Seminar

Concentration Requirements
12 credits are required to be taken in one of three areas of professional concentration:
1. Education. For teachers with professional certification in Secondary Education—Social Studies. Students can complete their Master’s degree requirements toward permanent certification and gain expertise in the social sciences. Teachers and administrators will also acquire a sharper perspective on urban issues in education and student achievement.
2. Public Policy. For those seeking advancement in government careers. Students will examine political and organizational aspects of city management, budgets, methods of delivering services in an urban context, and the outcomes of social programs.
3. Social Research. For those whose primary focus is Social Science Research. Students will investigate the use of research in the design, monitoring, and evaluation of applied programs and learn how to interpret research findings. They will also gain both experience implementing research methodologies and a critical perspective on alternative research strategies.

Electives
Each student will be assigned a faculty adviser who will assist the student in selecting 12 elective credits appropriate to the student’s goals that will develop:
- Broad-based knowledge of the social sciences
- Interdisciplinary thinking skills
- Knowledge of different forms of argument and evidence
- Multi-method approaches to problem solving.

Core Courses
710. Diversity in an Urban Setting. 2 hr. plus conf.; 3 cr. An interdisciplinary examination of recent and continuing change in urban demographic patterns, with emphasis upon the greater New York area. The course analyzes the causes of these changes and their implications for economic, political, educational, and cultural institutions.
720. Varieties of Social Science Methods. 2 hr. plus conf.; 3 cr. A broad introductory course in statistics, social science research concepts, social science quantitative methods, and social science qualitative methods. Special emphasis is placed on the use and interpretation of research findings.
730. Computer Methods for the Social Sciences. 2 hr. plus conf.; 3 cr. An introduction to the various uses of microcomputers in handling social science data, including statistical packages such as SPSS, graphic programs, mapping programs, word processing, and use of the Internet. Instruction emphasizes hands-on computer experience.
790. Master’s Capstone Seminar. 2 hr. plus conf.; 3 cr. This course is taken in conjunction with independent work on an individual Master’s Thesis. The seminar addresses social issues that cut across standard disciplinary boundaries and relates discussion to issues raised in earlier courses. Specific topics vary depending upon the interests of students and faculty.

Courses in Area of Concentration and Elective Courses
Each semester’s course offerings are listed by the Graduate Adviser. See the appropriate department in this Graduate Bulletin for fuller descriptions of courses listed below.

Courses in Economics
713. Public Finance and Fiscal Policy. 2 hr. plus conf.; 3 cr. Government revenues and expenditures: analysis of principles and practices.
750. Industrial Organization and Control. 2 hr. plus conf.; 3 cr. Structure of the American economy; governmental policies aiming at the preservation of competition in industrial markets and regulation of trade practices.
760. Labor Economics. 2 hr. plus conf.; 3 cr. Problems and issues in labor economics; wages, hours, and working conditions; wage policy; relation of labor organizations to management decisions and economic change.
770. Urban Economics: Tools, Methodology, and Applications. 2 hr. plus conf.; 3 cr. Introduces students to major subject areas, theories, and research tools of urban and regional economics and their applications.

Courses in Education
SEYS 702. The History of Education in the United States.
SEYS 707. Major Issues in Education.
ECPCE 731. Family and Substance Abuse.

Courses in History
777. The City in American History to 1890.
777.1. The City in American History since 1890.
786. The American Urban Environment, 1830-1930.

Courses in Philosophy
651. Philosophy of Law.
653. Philosophy of the State.
S O C I O L O G Y

Chair: Dean Savage

Graduate Committee Director: Andrew Beveridge

Dept. Office: Kissena 256, 997-2800

The Master’s Program in Applied Social Research provides students with the educational foundation and technical skills necessary to prepare for a professional career in market research, program evaluation, public opinion research, institutional research, or other applied social research field.

The department consists of 25 full-time faculty members who maintain a very active research agenda. Faculty research areas include social stratification of urban areas, film and society, the impact of digital technology on society, workforce diversity, ethnic, race, class and gender, and Jewish culture in America. The facilities in the department include a large main computer laboratory along with a new multimedia lab and full Internet connections to assist graduate students in their research.

Faculty

Savage, Dean B., Chair, Associate Professor, Ph.D. 1975, Columbia University: organization, science, work
Beveridge, Andrew A., Graduate Committee Director, Professor, Ph.D. 1973, Yale University: social history, quantitative methods
Bershers, James M., Professor, Ph.D. 1957, University of North Carolina: urban demography
Browne, Basil R., Assistant Professor, Ph.D. 1989, University of California at Berkeley: deviant behavior, race/ethnic/minority relations, methodology, qualitative approaches
Catsambis, Sophia, Associate Professor, Ph.D. 1988, New York University: education
Clough, Patricia T., Professor, Ph.D. 1978, University of Illinois, Champaign-Urbana: feminist theory, mass media, qualitative methods
Cohen, Bernard, Professor, Ph.D. 1968, University of Pennsylvania: criminology, police research, deviance
Eisenstein, Hester, Professor, Ph.D. 1967, Yale University: sociology of gender, feminist theory, globalization
Font, Mauricio A., Associate Professor, Ph.D. 1983, University of Michigan: development and social change, comparative and historical sociology
Gallo, Carmenza L., Assistant Professor, Ph.D. 1985, Boston University: comparative sociology, family
Gorman, Thomas J., Associate Professor, Ph.D. 1994, State University of New York at Stony Brook: social stratification, education, family sport
Habtu, Alem S., Assistant Professor, Ph.D. 1996, New School for Social Research: Africana studies
Heiman, Samuel C., Professor, Ph.D. 1973, University of Pennsylvania: social theory, symbolic interaction, sociology of religion, Jewry
Kapsis, Robert E., Professor, Ph.D. 1973, University of California at Berkeley: art and culture, mass media
Levine, Harry G., Professor, Ph.D. 1978, University of California at Berkeley: American historic culture
Liang, Zai, Associate Professor, Ph.D. 1992, University of Chicago: demography, immigration, ethnic intermarriage
Mankoff, Milton L., Associate Professor, Ph.D. 1969, University of Wisconsin: social stratification, social change, social deviance
Miller, Joanne, Associate Professor, Ph.D. 1975, University of Wisconsin, Madison: work, social structure and personality, applied demography
Min, Pyong Gap, Professor, Ph.D. 1983, Georgia State: family, ethnicity, and race, Asian Americans
Pitts, Victoria L., Assistant Professor, Ph.D. 1999, Brandeis University: gender, theory, sociology of the body
Rogers-Dillon, Robin, Assistant Professor, Ph.D. 1998, University of Pennsylvania: political sociology, medical sociology, poverty and social welfare
Seiler, Lauren H., Professor, Ph.D. 1970, University of Illinois at Urbana: methods, technology
Smith, Charles W., Professor, Ph.D. 1966, Brandeis University: theory, social psychology, sociology of markets
Tang, Joyce, Assistant Professor, Ph.D. 1991, University of Pennsylvania: stratification, mobility, science and technology, methodology
Turner, Charles F., Professor, Ph.D. 1978, Columbia University: AIDS and other STDs, survey research methods, evaluation research
Zimmer, Lynn E., Associate Professor, Ph.D. 1982, Cornell University: law, criminal justice

M A S T E R O F A R T S P R O G R A M

Requirements for Matriculation

These requirements are in addition to the general requirements for admission.

1. Sufficient work in sociology or related fields to pursue graduate work in sociology.

2. The department reserves the right to impose additional requirements upon any
candidate for the degree who, in its opinion, enters with insufficient undergraduate work in sociology.

3. Personal interview with the Graduate Adviser whenever feasible.

Departmental Requirements

These requirements are in addition to the general requirements for the Master of Arts degree.

1. Students must satisfy the following requirements:

   - Sociological Theory: Sociology 701 and 702 6
   - Quantitative Research Methods and Statistics: Sociology 710 and 712 6
   - Qualitative Methods or Professional Communications in Social Research: Sociology 711 or 716 3
   - One substantive area of Sociology, as approved by the department, e.g., Sociology 734 and 735 or 754 and 755 6
   - Sociology 793 and submission of an approved thesis or thesis-length paper based upon supervised independent research 3
   - Elective courses 6

   Total 30

2. The progress of all students will be reviewed every semester by the Graduate Committee. Satisfactory progress toward the degree requires a minimum grade of B (3.0) in the courses enumerated in a through d above. Additional work, a qualifying examination, or dismissal from the program will be prescribed for those students not satisfying the minimum requirements. Necessary action will be decided upon by the Graduate Committee and communicated to the student in writing.

Courses in Sociology

701. The Development of Sociological Theory. 2 hr. plus conf.; 3 cr. Critical examination of the major treatises and schools in the development of sociological theory from Comte to twentieth-century theorists.†

702. Contemporary Sociological Theory. 2 hr. plus conf.; 3 cr. Critical discussion of current sociological theory. Relationship of contemporary theory to empirical research.†

703. Social Pathology. 2 hr. plus conf.; 3 cr. Examination of certain problems, such as mental illness, delinquency and crime, poverty, divorce, differential morbidity and mortality, which are regarded as pathological by our society. These problems will be viewed within the context of a general theory of social pathology and the interplay of psychic and social variables.††

704. Studies in the Family as a Social Institution. 2 hr. plus conf.; 3 cr. The basic functions of family life and the effects of continuous social change on parenthood, courtship, and marriage are studied. The universality of the family and the relationship of the family to social and economic organizations will be explored. Sociological theories concerning changes in structure and function of the family will be presented.††

707. Criminology and Criminal Justice. 2 hr. plus conf.; 3 cr. Analysis of statistics, theories of causation, current research in crime, delinquency, and the criminal justice system.††

710. Applied Computer Methods. 2 hr. plus conf.; 3 cr. Prereq.: Sociology 710 and 712. An introductory course in statistics. This introductory applications course illustrates the use of computers in handling social science data. The method is to present a problem commonly encountered by social researchers and demonstrate its computer-based solution. Data handling and analysis are performed using SPSS (Statistical Package for the Social Sciences). Background is given in sampling, research design, and survey analysis.†

711. Qualitative Methods. 2 hr. plus conf.; 3 cr. Prereq.: Sociology 701 and 710. An introductory course in qualitative methods. Qualitative concepts and methods of sociological research; application of such concepts and methods in representative published studies.†

712. Advanced Social Statistics. 2 hr. plus conf.; 3 cr. Prereq.: Sociology 711 or 716. An introductory course in statistics. An examination of more advanced statistical methods as applied to sociological data. The course will deal with the logic and techniques of sampling, the significance of differences, and the relationships between factors involved in quantitative sociological studies.†

715. Studies in Urban Sociology. 2 hr. plus conf.; 3 cr. An analysis of theories of urban life. The life cycle of urban neighborhoods, urban redevelopment, and planning. Methods of urban area analysis. Students will have an opportunity to participate in research projects.††

716. Professional Writing and Communication for Social Research. 2 hr. plus conf.; 3 cr. An applied course stressing succinct and meaningful communication. The course will include proposals, analytical reports, and presentations. Essential concepts will be drawn from a wide variety of professional experiences.

718. Sociology of Politics. 2 hr. plus conf.; 3 cr. Review of the basic research findings on the ecology of voting and on the determinants of electoral decisions as indicated in election polls and panel studies. Sociological analysis of the internal structure of political parties and of the decision-making process and the power structure on the community and the national level.††

719. Social Stratification. 2 hr. plus conf.; 3 cr. The concept of social class in social science (as used by Marx, Weber, Warner, and in recent sociological research). Comparisons of social stratification in several countries. Discussion of the causes and consequences of individual and structural mobility.††

721. Studies in Sociological Aspects of Religion. 2 hr. plus conf.; 3 cr. This course concerns itself with the institutional expressions of the great historical religions of the world (e.g., Buddhism, Christianity, Confucianism, Islam, Judaism, etc). Consideration will be given to the relationship between religious institutions and society, the rise and development of sects, leadership patterns in religious groups, and the role of religion in modern American communities.††

728. Sociology of Organizations and Industry. 2 hr. plus conf.; 3 cr. The general theory of organizations is examined with emphasis on groups, decisions, hierarchy, effectiveness, participation, conflict, power, and environment. Selected studies dealing with labor, business, and government are discussed.

729. Studies in Collective Behavior. 2 hr. plus conf.; 3 cr. An advanced course concerned with the individual in the social group. Such topics as group influences on the shaping of attitudes, conformity, and deviant behavior will be discussed. Will also explore collective behavior, including group reactions to crisis situations and the psychology of social movements.††

734. Applied Social Research in Marketing I. 2 hr. plus conf.; 3 cr. A survey of the techniques used in marketing research with an emphasis on developing skills needed to carry out research.

735. Applied Social Research in Marketing II. 2 hr. plus conf.; 3 cr. Prereq.: Sociology 734. Continuation of Sociology 734. Students carry out a marketing research project.

736. Selected Problems in Demography. 2 hr. plus conf.; 3 cr. Survey of 1) major population problems and developments, particularly the relation between natural and industrial resources and population growth in various areas of the world; 2) social and other factors influencing population developments; 3) techniques of demographic research.††

738. The Research Process. 2 hr. plus conf.; 3 cr. Prereq.: Sociology 701 and 710. A comparative survey of the conduct of social research. Each stage of the research process as it is performed in various settings.
will be explored, including: definition of problem, literature review, formulation of study design, development of research instruments, plans for data analysis, and construction of a report outline. Students will develop a model research proposal.

739. Studies in Social Psychology. 2 hr. plus conf.; 3 cr. An examination in depth of selected areas in social psychology such as attitudes, public opinion polling, socialization, personality, etc. Students will have the opportunity to pursue research under supervision.††

749. Selected Problems in Mass Communication. 2 hr. plus conf.; 3 cr. A discussion of selected problems in the field of mass communication. Includes research conducted by various institutions and contributions appearing in recent and current literature, together with problems in the methodology of mass communications research.††

751. Medical Sociology. 2 hr. plus conf.; 3 cr. A study of selected contributions from the literature of social organization and social psychology, in particular, to an understanding of the functioning and role of the helping professions, the patient, and the community in health-maintaining activities.††


788. Cooperative Education Field Placement. Prereq.: Permission of department. Students will apply skills learned in courses in paid positions. A written report linking experience with skills and concepts learned in the classroom is required.

788.1. 1 hr.; 1 cr. 788.2. 2 hr.; 2 cr.
788.3. 3 hr.; 3 cr. 788.4. 4 hr.; 4 cr.
788.5. 5 hr.; 5 cr. 788.6. 6 hr.; 6 cr.

789. Internship in Social Research. Prereq.: Permission of department. Students will apply skills learned in courses in volunteer positions. A written report linking experience with skills and concepts learned in the classroom is required.

789.1. 1 hr.; 1 cr. 789.2. 2 hr.; 2 cr.
789.3. 3 hr.; 3 cr. 789.4. 4 hr.; 4 cr.
789.5. 5 hr.; 5 cr. 789.6. 6 hr.; 6 cr.

790. Seminar in Selected Topics in Sociology. 2 hr. plus conf.; 3 cr. Content will be determined by the special interest of students and the instructor.††

790.1. Seminar in Selected Topics in Sociology. Hr. to be arranged; 1 cr. Content will be determined by the special interest of students and the instructor. The course may be repeated for credit by permission of the department as the topic changes.††

790.2. Seminar in Selected Topics in Sociology. Hr. to be arranged; 2 cr. Content will be determined by the special interest of students and the instructor. The course may be repeated for credit by permission of the department as the topic changes.††

790.3. Seminar in Selected Topics in Sociology. Hr. to be arranged; 3 cr. Content will be determined by the special interest of students and the instructor. The course may be repeated for credit by permission of the department as the topic changes.††

791. Tutorial. 3 hr.; 3 cr. Prereq.: Permission of Department of Graduate Program in Sociology. Independent study under the guidance of a Faculty Adviser.

792. Research. 3 hr.; 3 cr. Prereq.: Permission of Director of Graduate Program in Sociology. Research conducted under the guidance of a Faculty Adviser.

793. Thesis Research. 3 hr.; 3 cr. Prereq.: Completion of requirements a through d (21 credits) in the list of Departmental Requirements on page 146. Student will carry out a research project which will culminate in a Master’s thesis or a research report of comparable significance.

URBAN STUDIES
Chair: Leonard Rodberg
Graduate Adviser: William A. Muraskin
Dept. Office: T3 Room 6, 997-5130

The M.A. program in Urban Affairs is designed to prepare the student for professional work and career advancement in the areas of urban and public administration, social policy, and community organization and development. Graduates of the program work in government agencies, community-based and nonprofit organizations, health care and education institutions, and enterprises such as real estate firms concerned with urban issues. Studying with faculty who have extensive knowledge and experience in contemporary urban affairs, students gain training and expertise in the design and administration of programs addressing issues of social and urban policy.

Faculty
Rodberg, Leonard, Chair, Associate Professor, Ph.D. 1975, Massachusetts Institute of Technology: health policy, employment policy, urban data analysis
Muraskin, William A., Graduate Adviser, Professor, Ph.D. 1970, University of California at Berkeley: social/urban history, health policy, international health
Bayne-Smith, Marcia, Assistant Professor, D.S.W. 1990, Columbia University: health services and education, social welfare policy, immigration, social work
Hanlon, Martin D., Associate Professor, Ph.D. 1979, Columbia University: health policy, public management, public policy evaluation, workforce issues
Hum, Tarry, Assistant Professor, Ph.D. 1996, UCLA: immigrant communities, economic development
Lawson, Ronald L., Professor, Ph.D. 1970, University of Queensland, Australia: housing, tenant activism, protest and religious movements, urban sociology
Sardell, Alice, Associate Professor, Ph.D. 1980, New York University: health policy, community health planning, urban and community politics
Seley, John E., Professor, Ph.D. 1973, University of Pennsylvania: urban and regional planning, public policy, geography, computer mapping
Steinberg, Stephen, Professor, Ph.D. 1971, University of California at Berkeley: racial and ethnic minorities, public policy, urban sociology

PROGRAM FOR THE MASTER OF ARTS DEGREE

Requirements for Matriculation
Applicants must demonstrate aptitude for completing a graduate program in urban affairs either through previous academic performance or through performance in relevant life situations. Applicants’ experience in urban policy or administration or in community service jobs or activities will be evaluated along with the academic record in the admissions decision. Inquiries should be addressed to: Graduate Admissions Committee, Department of Urban Studies.

Requirements for the Master of Arts Degree
Thirty-six credits are required for the M.A. degree, including four required courses (12 credits). Students not employed in an urban-related field are encouraged to take 3–6 credits of fieldwork. Where appropriate,†-Offered either Fall or Spring; see Class Schedule. ††-May be offered; see Class Schedule.
URBAN STUDIES

3–12 graduate credits may be taken in other departments, subject to the approval of the Graduate Adviser.

A thesis or capstone paper is required.

Required Courses

The following 12 credits are required of all graduate students in Urban Affairs:

724. Introduction to Public Policy 3 cr.
725. Urban Research Methods 3 cr.
Either:
727. Public Management 3 cr.
or
745. Community Organization 3 cr.
791. Master’s Thesis Seminar 3 cr.

Field Work (3–6 credits)

Field placements will be given in areas of urban activity of interest to the student. Fieldwork shall include participation in seminars where the experience will be discussed and analyzed. Students will be placed in an outside organization or participate in a group project or workshop organized by the department. Fieldwork will be under the direction of a Faculty Adviser who shall hold regular conferences with students. Papers on fieldwork are required. Fieldwork courses are 780 and 781.

Thesis or Capstone Paper (3 credits)

All students are required to enroll in the Master’s Thesis Seminar (UBST 791), in which they develop a research proposal that will serve as a blueprint for the thesis or capstone paper. A thesis generally involves primary research in which students undertake an original field project. A capstone paper typically consists of a critical review of an existing body of knowledge on a topic related to social or urban policy. Students have the option of enrolling in a 3-credit tutorial while working on the thesis/capstone paper. Each student works with a faculty adviser, and the final product is subject to the approval of both the faculty adviser and the graduate adviser.

Courses in Urban Studies

626. Computer Methods in Urban Policy Analysis. 3 hr.; 3 cr. This course introduces the student to a variety of methods for performing urban policy analyses using microcomputers, including the use of spreadsheets, database systems, graphics programs, mapping systems, and statistical packages. Students will be introduced to essential file management functions and will learn to use these computer-based tools to analyze, interpret, and display demographic, economic, and geographic data. Students will carry out and present projects using their own data or data provided by the instructor.

640. Public Administration. 2 hr. plus conf.; 3 cr. This course offers a comprehensive survey of the field of public administration, from the philosophical underpinnings of government activities to the structure and function of present-day state and local government programs and agencies.

719. Applications of Social Psychology to Urban Problems. 2 hr. plus conf.; 3 cr.††

722. Processes of Urbanization. 2 hr. plus conf.; 3 cr.†† This course provides an overview of 1) the historical growth and economic position of cities as centers of industry or commercial and bureaucratic control; 2) internal differentiation within cities; 3) the experience of urban life at different socioeconomic levels. Fall

724. Introduction to Public Policy. 2 hr. plus conf.; 3 cr. This course is an introduction to policy-making in public and nonprofit organizations. Students learn the major elements of the policy-making process: defining problems, developing alternative policies, evaluating alternatives, policy implementation, and evaluating policy outcomes. The focus is on policy-making at the local and state level. Substantive policy areas covered in the course include: welfare, urban economic development, environmental and land use policy, housing policy, and health policy. The course is intended to provide the theoretical and analytical basis for a series of proposed courses in each of these areas.

726. The Urban Criminal Justice System in the United States. 3 hr.; 3 cr. This course will deal with the modern criminal justice system as it has developed through time in cities. Special attention will be given to the urban problems that led to the creation and evolution of the professional police, criminal courts, and penal institutions. Emphasis will be placed on the specifically urban influences (demographic, geographic, political, economic, and social) that originally shaped and continue to mold the criminal justice system.

727. Public Management. 2 hr. plus conf.; 3 cr. This course is devoted to the study of management in local and state government and the nonprofit sector. Defining the unique characteristics of public management is one of the goals of the course. Another is to provide an understanding of what government and nonprofit managers actually do. Finally, the course is intended to develop skills that are essential to effective public management. The course relies heavily on the case method approach, which is intended to simulate the world of actual managers and the processes of management decision-making.

730. The Urban Economy: Growth and Problems. 2 hr. plus conf.; 3 cr.††

731. Evaluating Urban Policies. 2 hr. plus conf.; 3 cr. This course examines the theory and practice of urban policy analysis. It focuses on ways in which existing policies and programs for urban improvement can be evaluated and improved. Students will be required to undertake an evaluation project on an urban policy. Fall

735. NYC Land Use Planning Process. 2 hr. plus conf.; 3 cr. This course examines the ways in which New York City has historically exercised its zoning authority and has created a variety of institutions to intervene in the zoning process. It examines the role of real estate interests, the general public, and the City government agencies specifically charged with planning functions.

736. Urban Epidemics: Tuberculosis to AIDS. 3 hr.; 3 cr. This course will deal with infectious diseases in American cities over time. Severe epidemics of contagious disease are a creation of civilization, requiring as they do the large population that crowded cities provide. A number of devastating diseases will be considered, among them tuberculosis, cholera, syphilis, hepatitis, polio, and AIDS, along with their effect on city life. The social construction of disease and the changing cultural meanings of different diseases will be dealt with. Special emphasis will be placed on the role of stigma and discrimination in how society reacts to those who have a disease.

740. Delivery of Public Services. 2 hr. plus conf.; 3 cr. This course examines the theory and practice of public service delivery by urban government within the context of budgetary constraints and the politicization of issues relating to public services. New York City’s practices are compared with public
service delivery in other political jurisdictions in the United States and other countries.

742. Public Budgeting. 2 hr. plus conf.; 3 cr. This course examines contemporary government budgeting practices within the context of urban politics, public administration, collective bargaining, and federal and state impacts on local budgeting. The emphasis is on the budgeting process in New York City, beginning with the role of the fiscal crisis of 1974–75 in reforming City government budgeting.

745. Community Organization. 2 hr. plus conf.; 3 cr. Analysis of the structure and organization of urban communities and how community resources can be mobilized to solve social and economic problems.

749. Urban Education. 2 hr. plus conf.; 3 cr. May be repeated for credit if topic changes.††

752. Women in Urban Society. 2 hr. plus conf.; 3 cr. Effects of urban life on the status of women in the family and the political economy. Current changes and future prospects.††

756. The Law and Urban Society. 2 hr. plus conf.; 3 cr. This course examines the role of law in relation to a variety of urban issues. It begins with an overview of legal processes within the American constitutional system. It then proceeds to address the relationship of law to issues of welfare, housing, racial discrimination, education, and urban crime.††

760.1-760.6. Selected Topics in Urban Policy and Planning. 2 hr. plus conf.; 3 cr. An intensive analysis of policies and planning in one urban topic in one semester (e.g., health, housing, transportation, education, welfare). May be repeated for credit.††

762. Jobs and Occupations in Urban Society. 2 hr. plus conf.; 3 cr. Changing job structures and the labor force are considered in relation to employment and unemployment, education, discrimination, government programs, labor unions, corporation policies, and economic and social change.††

763. Race, Ethnicity, and Public Policy. 3 hr.; 3 cr. This course begins with an overview of the status of racial and ethnic minorities in contemporary American society. It then examines a number of critical policy issues, such as enforcement of antidiscrimination laws, affirmative action, bilingual education, transracial adoptions, the creation of black-majority Congressional districts, and multicultural education.

765. Urban Poverty. 2 hr. plus conf.; 3 cr.††

770.1-770.5. Roots of the Urban Crisis. 2 hr. plus conf.; 3 cr. Selected topics in the development of urban institutions in American cities and their problems in meeting individual and social needs. May be repeated for credit (each institution will be dealt with in a separate course).††

775. Changing Urban Institutions. 2 hr. plus conf.; 3 cr.††

780. Fieldwork I. Hr. to be arranged; minimum of 12 hr. a week required; 3 cr. Includes fieldwork assignment and seminar sessions. Fall, Spring

781. Fieldwork II. Hr. to be arranged; minimum of 12 hr. a week is required; 3 cr. Includes fieldwork assignment and seminar sessions. Must be different assignment from that of Fieldwork I. Fall, Spring

785. Tutorial. Hr. to be arranged; 3 cr. Fall, Spring

790. Seminar in Selected Topics in Urban Studies. 2 hr. plus conf.; 3 cr. The topic will vary from semester to semester. Fall, Spring

791. Master’s Thesis Seminar. 2 hr. plus conf.; 3 cr. The required thesis will be the focus of this class. Students will learn to do research and organize and write an original research paper. Fall

†-Offered either Fall or Spring; see Class Schedule.
††-May be offered; see Class Schedule.
Queens College has always believed that a great college must do more than offer its students the finest possible education: it must also be involved in the lives of all the people in its community, serving as a resource for the problems and opportunities that face our city and country. The centers and institutes sponsored by Queens College do all this and more. They address pressing contemporary problems such as cancer, AIDS, pollution, racism; the changing workplace and workforce; the heritages of the borough’s many ethnic communities, including Asians, Greeks, Italians, and Jews; and, since we are foremost an educational institution, the centers are always searching for the best way to educate our young people. The excellence of Queens College’s centers has been acknowledged by the many foundations and government agencies that support them, including the Turner Foundation, Alexander S. Onassis Foundation, PaineWebber, Inc., U. S. Environmental Protection Agency, the Foundation for Hellenic Culture, and many others.

Asian/American Center
Hong Wu, Associate Director
Temporary III, Room 25, 997-3050

The Asian/American Center at Queens College was founded in September 1987 in response to, and in recognition of the population explosion of Asians in the Borough of Queens and the wider New York City Metropolitan area. (The total Asian population in New York City has increased from 350,000 in the late 1980s to 600,000, of which more than one-half reside in Queens.) The Asian/American Center is committed to the development of community-oriented research to analyze the multicultural diaspora experience of Asians in global, as well as local communities. The Center’s mission is to foster new scholarship, promote an interdisciplinary cultural studies approach in which anthropologists, historians, critics, community activists, and others can come together through a range of public conferences and programs, disseminate contemporary information on Asian American communities, and create an awareness on primary issues impacting Asians and Asian Americans.

The Asian/American Center collaborates in its research efforts with the Queens College faculty and staff from different departments, as well as various Asian communities. It bridges the academic resources at Queens College with the communities. The Asian/American Center along with the Asian and American faculty at Queens College provides support to Queens College students of Asian backgrounds and those interested in Asian studies through its programming.

The new initiatives that the Asian/American Center has made during the past two years include assisting Queens College with developing academic programs enrolling students from Asian countries, establishing agreements between Queens College and universities in China, Taiwan, etc., initiating joint intergenerational conferences and educational seminars with the Asian universities as well as the Asian government educational offices.

The Asian/American Center is expanding its network in the communities to involve specifically Asian and American businesses in its activities. We plan to develop training programs, such as those in cultural immersion or codes of business practices, for corporations and others doing business with Asian companies or within the Asian American diaspora in the metropolitan area.

Asian American/Asian Research Institute
Thomas Tam, Executive Director
25 W. 43rd Street, 212-717-0765

The Asian American/Asian Research Institute was approved by the City University of New York’s Board of Trustees in the Fall of 2001. The Institute will create an organizational structure that will integrate the talents of individual faculty and the resources of different institutions within CUNY to create a community of scholars who will focus their energies on Asia and the Asian American experience. With timely research and analysis, the Institute will offer public policy assessment to governmental, social, and educational agencies on issues affecting the Asian American communities. It will also work to stimulate the study of Asian people, languages, cultures, and countries, as well as of Asian immigrants and their descendants in the United States.

Michael Harrington Center
Mark Rosenblum, Director
Temporary III, Room 16A, 997-3077

The Michael Harrington Center for Democratic Values and Social Change exists to promote public discourse about social issues, to advocate for social change and to work in partnerships with others to build a more just society. To accomplish these goals, the Center:

- Identifies individuals and organizations engaged in positive social change in
public education, safety, health, welfare reform, economic development and criminal justice, and supports pragmatic community coalitions to ameliorate urban problems;

- Acts as a bridge between Queens College and metropolitan communities to address common concerns and share resources;
- Publishes an annual journal, ANOTHER SIDE, Working Papers, quarterly Action Briefs, and other resources;
- Conducts and disseminates research relevant to public health, educational equity, drug policy, conflict resolution, and poverty;
- Sponsors community dialogues, conferences, colloquia, and workshops.

The Center’s partners include: Queens College faculty, educational institutions, public policymakers, racially and ethnically diverse community organizations, religious organizations, media, and public scholars.

Center for the Biology of Natural Systems

Steven Markowitz, Director
163-03 Horace Harding Expressway, Room 400, 670-4180

The Center for the Biology of Natural Systems (CBNS) is a research organization that is devoted to the analysis of “real-world” environmental and resource problems and their policy implications. Since it was founded in 1966, CBNS has developed and implemented an evolving strategy to realize this goal.

Our continuing dedication to real-world issues has governed the development of CBNS research strategy. Since we are concerned with the actual environmental and resource problems that confront human society, as solutions to old problems are found – if not always implemented – and new problems emerge, our research strategy responds. Thus, when CBNS moved from Washington University in St. Louis to Queens College in 1981, we found that, like most urban centers, New York City faced a serious trash disposal problem; the current landfill system was an environmental hazard, but the proposed solution – incineration – was a major source of dioxin, a highly toxic pollutant. An extensive CBNS analysis showed that dioxin is unavoidably synthesized in trash-burning incinerators, and that intensive recycling – which, as we showed, can reach the rate of 84% – is an economically feasible, dioxin-free alternative.

With the growing evidence that dioxin is a probable human carcinogen, CBNS studies turned toward the analysis of this threat to human health. In 1987 we showed for the first time that the body burden of dioxin in the general U.S. population signifies a lifetime cancer risk of 330–1400 per million – well above the “acceptable” one-per-million risk. Preventing this exposure became a major national issue, a goal that required analysis of the environmental pathways that lead from the sources that emit dioxin to the avenues of human exposure, such as water supplies and farms. For this purpose, we introduced a new computer model that traces dioxin from numerous identified sources through the air to any other specified location. An initial study showed that airborne dioxin entering the Great Lakes traveled as much as 2,000 miles from the sources that emitted it. The model has now been used to rank the sources with respect to their impact on the airborne dioxin that contaminates feed crops, and hence milk – a major source of human exposure – produced on dairy farms in Vermont and Wisconsin. The results showed that, of the thousands of sources, only eight to ten were responsible for two-thirds of the feed crops’ dioxin, thereby facilitating preventative measures. In similar studies we have also traced atrazine, a carcinogenic herbicide, from its numerous sites of agricultural application to drinking water reservoirs, including the New York City water supply system.

In this way, as our research strategy has evolved, we have demonstrated an approach to our basic mission that defines the path of human exposure to major airborne toxic pollutants; from their industrial and agricultural sources through the atmosphere and the ecological systems that mediate the entry of contaminated air, water, and food into the human body. With this accomplished, it became apparent that this capability needed to be expanded to serve the ultimate aim of all such efforts: to improve human health.

Accordingly, in the last year we have fulfilled this goal by bringing to CBNS Dr. Steven Markowitz, a widely known environmental epidemiologist and expert in occupational toxicology. His ongoing study of the effect of their occupational environment on the health of workers in the U.S. government’s nuclear bomb plants, and a new study of birth defects in populations exposed to atrazine-contaminated drinking water exemplify our start in this new direction. Recognizing the growing importance of urban environmental health, we have also proposed to study the impact of air pollution on the severity of asthma in the South Bronx. At the same time, our work on the long-range air transport of toxic pollutants has entered into an important new area of this issue: the reciprocal flow of dioxin and other critical pollutants across the U.S. boundaries with Mexico and Canada. In sum, the CBNS, guided by its basic mission, continues to work at the cutting edge of environmental progress.

Center for Byzantine and Modern Greek Studies

Harry Psoymiades, Director
Jefferson Hall 302, 997-4520

The mission of the Center for Byzantine and Modern Greek Studies is: to initiate, support, and coordinate the teaching of Byzantine and Modern Greek subjects at Queens College; to promote Byzantine and Neo-Hellenic scholarship and publications; and to relate academic research and teaching to the needs and interests of the Greek Community of Queens and beyond.

In support of this mission, the Center sponsors visiting scholars, provides library support for the Byzantine and Modern Greek collection at Queens College, organizes conferences, special lectures, exhibits, and seminars, and offers fellowships and emergency financial assistance to students. The Center has published seven scholarly works of immense importance toward an understanding of the problems confronting Greece and the Greek diaspora, as well as 14 volumes of the Journal of Modern Hellenism. All of these are ongoing activities.

Center for Jewish Studies

Benny Kraut, Director
Jefferson Hall 309, 997-5730

The Center for Jewish Studies is an outreach and research agent that serves as a bridge between the academic Jewish Studies program and the community. Its fourfold mission is:

- To engage the general community in the enterprise of Jewish education and culture by organizing attractive educational and spirited cultural programs on campus, such as lectures, symposia, conferences, film festivals, artistic performances, and the like, which are open to the public. The Center aims to be the premier community resource for Jewish
intellectual endeavors in the Queens/Long Island region.

To foster academic Jewish learning in the community, by having Jewish Studies faculty from Queens College and elsewhere share their expertise in community educational and cultural frameworks.

To publish and disseminate widely substantive lectures and conference proceedings of significance to scholars and laymen alike.

To support, promote, and sustain the pedagogic and scholarly activities of the Jewish Studies program, its faculty and students.

The Center supports the ongoing health and vitality of the Jewish Studies Program by raising supplementary funds from private and public sources to make feasible essential program initiatives.

The Center fulfills its outreach and mediating role to the community by undertaking programmatic initiatives on campus that are open to the public. Annually, it sponsors thirteen events in its famous evening Jewish Lecture Series attended by thousands. It sponsors day-time colloquia and symposia, featuring newly published authors, dramatists, public officials, as well as illustrious academicians. It arranges public conferences on such themes as “Holocaust Revisionism,” “Envision in Israel,” “Gender and Religion,” and “Jews and the 1960s.” The Center works both independently and in collaboration with other Queens College Centers and departments, as well as with national institutions and local agencies off campus, to spur thoughtful reflection about scholarly and contemporary issues within as wide a public forum as possible.

In addition to campus-based activities, the Center actively invites Queens College Jewish Studies faculty to lecture off campus to community organizations and institutions. It also coordinates Jewish Studies programs and cultural soirees in the more intimate setting of private homes in order to furnish a more leisurely and personal ambiance for Jewish learning.

John D. Calandra Italian American Institute

Philip V. Cannistraro, Dean
25 W. 43rd Street, 212-642-2094

In 1995 the Calandra Institute was officially designated as a university-wide research institute under the aegis of Queens College by the CUNY Board of Trustees, making it the first of its kind and scope devoted to documenting and preserving the Italian-American experience. It is unique in that it also provides instruction, training, and counseling services to Italian-American students and the community. The overall mission of the Institute is in keeping with that of CUNY: to foster higher education among Italian-Americans, the single largest ancestral group in New York City, New York State, and CUNY. The goal of the Institute is to heighten the awareness of Italian-American heritage and to insure that the legacy of the Italian-American experience is documented and preserved for future generations, well into the 21st century. The Institute accomplishes its ambitious mission through a range of programs sponsored by its specialized units.

Research and Education – This unit implements research on the Italian-American experience and is engaged in the ongoing development of collecting data on Italian-American educational and occupational attainment, identifying Italian-American scholars nationwide, serving as a research depository of information and support, disseminating research findings, providing research opportunities for national and international faculty and students, developing grants for research funding, joint activities with the Distinguished Professor of Italian-American Studies (Queens College), publication of The Italian American Review, A Social Science Journal of the Italian American Experience, sponsoring conferences on local, national, and international levels for both academic and public audiences.

Resource and Community Programs – This unit works in collaboration with diverse organizations to develop, support, and coordinate projects that promote and celebrate Italian and Italian-American culture and heritage. Resource and Community Programs plays a vital role in collaborative archival projects for preservation and access, organizing public lectures, exhibits, and special events by noted authors, scholars, educators, and community leaders, producing ITALICS: The Italian American Magazine, a monthly video show coproduced with CUNY-TV, televised on nationwide cable stations focusing on Italian-American themes, developing and maintaining an impressive library devoted to Italian-American history, politics, literature, and culture, including dissertations, books, manuscript, and archival materials, audio and video tapes, serving as a clearinghouse to Italian-American organizations for information, services, scholarships, and current issues concerning Italian-Americans and publishing conference-related columns, the Institute’s newsletter, and annual report.

Career Counseling Programs – Specialized services sponsored by the Institute consist of counseling and outreach programs designed to address the educational and career needs of Italian-American students and the community at large. Institute counselors visit both high schools and colleges to promote interest in higher education and foster cultural activities and events sponsored by Italian-American student clubs. Services include counseling sessions for individuals presently attending CUNY and those who wish to enter the university system, providing information regarding colleges and programs at CUNY, the administration and interpretation of career tests and use of the career library located at the Institute’s Career Center in midtown Manhattan.

Columbus CUNY/ITALY Exchange Program – This program is a student exchange between CUNY and its constituent colleges and seven Italian public universities. Participating institutions include: University of L’Aquila, University of Catania, University of Naples, University of Pavia, University of Siena, University of Trento and University of Turin. The program is designed for highly motivated undergraduate and graduate students interested in pursuing coursework and/or research in the areas of international business, economics, law, political science, anthropology, archaeology, engineering, history, literature, and sociology. The program aims to provide participants with an individualized program of focus in their academic discipline, an understanding of the role of modern Italy and the European Economic Community and opportunities to experience life in another culture and gain a global socio-political perspective.

Labor Resource Center

Gregory Mantios, Director
Temporary III, Room 33, 997-3060

The Labor Resource Center provides labor-related educational services to academia, the public, and the labor community. The Center’s staff conducts research, develops educational material, organizes local forums and national conferences, and produces and distributes a variety of publications. Its main purpose is to promote dialogue and discussion on issues of particular concern to
working people and organized labor.

Toward this end, the Center is concerned with such worker-related issues as: unemployment; poverty among full-time and part-time workers; disparities in income and wealth; government support for the unemployed and working poor; employment discrimination and pay equity issues; societal attitudes affecting workers; housing and child care, health care, and educational opportunities for working people and the poor.

It is also concerned with issues impacting the labor movement itself: industrial and sectoral growth and decline; technological innovation; the global labor market and unprecedented levels of foreign competition; declining productivity; shifts in the gender and racial composition of the labor force; new modes of collective bargaining; workplace participation; issues of union democracy and leadership.

The Center provides an environment that encourages a diversity of ideas and opinions on a wide range of socio-economic problems. In response to these and other problems facing working people and organized labor, the Center provides an opportunity for scholars, union leaders, journalists, and community and business leaders to consider our history and culture, and to think creatively and progressively about social, economic, and political change. The Center encourages interdisciplinary exchange among these groups with the hope that it will generate new approaches to old and new problems. By encouraging collaboration among individuals with varying backgrounds and analytical skills, the Center works to provide an environment where conflicting opinions can be aired and new ideas are conceived and nurtured.

**Center for the Improvement of Education**

Lee Ann Truesdell, Director

Kiely 1311, 997-5329

The main goal for the Center for the Improvement of Education is to forge linkages between public schools and Queens College that will allow staff from each to perform their primary functions more effectively. The traditional role of Queens College in this regard has been the training of new teachers, while the public schools have assumed responsibility for ongoing supervision and staff developmental activities. The Center’s staff believes that a more fruitful partnership can evolve if these traditional roles are challenged and ways are found to wedge pre-service and in-service efforts in a way that makes them a constructive force for change in the schools. Thus, we seek to create “porous boundaries” between the institutions, ways in which staff can cooperatively address issues of common interest and concern:

- Recruitment and training of teachers – We believe the pre-service preparation programs would benefit greatly from being more closely tied to the daily realities of life in the schools and the practical experience school staff are able to provide.

- Staff development – Queens College has much to offer in the continuing training of teachers. University staff have the additional time, content knowledge, and a familiarity with research that can be useful. The new state mandate of 175 hours of professional training for in-service teachers to be completed every 5 years makes such a partnership even more promising.

- Combining Pre-service/In-service Teacher Preparation – Efforts to reform or restructure schools are often limited by the lack of additional resources. School staff are already assigned full-time functions. Colleges have a large pool of available resources in their pre-service trainees, particularly the mature, change-of-career people who bring a strong background of experience with them. Carefully planned and made part of an integrated overall design, these resources can become an important source of support for school reform aimed at improving instruction.
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Weekend College
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Eleanor Armour-Thomas

Sociology
Dean B. Savage

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Student Personnel
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Urban Studies
Leonard S. Rodberg

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Rosa Maria Gil, University Dean for Health Sciences
Lester Jacobs, University Dean for Enrollment Services
Nicholas Michelli, University Dean for Teacher Education
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Robert Ptachik, Acting University Dean for the Executive Office
Dave I. Fields, Special Counsel to the Chancellor

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TRANSPORTATION

Queens College, CUNY is located at the corner of the Long Island Expressway (LIE) and Kissena Boulevard (exit 24) in Flushing.

By Car
The campus can be reached from Manhattan via the Midtown Tunnel; from the Bronx or Westchester via the Triboro, Whitestone, or Throgs Neck Bridge; and from farther out on Long Island via the Long Island Expressway, Grand Central Parkway, or Northern Boulevard.

By Public Transportation
Via Flushing: Take the Long Island Railroad or the IRT subway to Main Street, Flushing. From Main Street, take the Q25-34 or Q17 bus.

Via Forest Hills: Take the IND subway to Continental Avenue, Forest Hills. From Continental Avenue, take the Q65A bus to Kissena Boulevard and Jewel Avenue.

Via Kew Gardens: Take the IND to Union Turnpike. Then take the Q74 bus to the main gate.

Via Jamaica: Take the IND subway to Parsons Boulevard or the Long Island Railroad to the Jamaica station. From Jamaica Avenue and 160th Street or Hillside Avenue and Parsons Boulevard in Jamaica, take the Q25-34 bus. From Hillside Avenue and either 169th or 179th Street in Jamaica, take the Q17 bus to the Long Island Expressway and Kissena Boulevard.

Bus Lines
Q25-34 (Queens Transit Bus Line)
Runs from Main Street, Flushing (IRT and LIRR stations), along Kissena and Parsons Boulevards to Jamaica Avenue and 160th Street (BMT and IND connections). Stops at the main gate.

Q44 (NYC Transit Authority Bus Line)
Runs from Main Street and Melbourne Avenue, two blocks west of the campus.

Q74 (NYC Transit Authority)
Runs from Union Turnpike, Kew Gardens (IND station), along Vleigh Place, Main Street, and the LIE service road, and then turns onto Kissena Boulevard. Stops at the main gate.

Q65A (Queens Transit)
Runs from Continental Avenue, Forest Hills (IND station), along Jewel Avenue to 165th Street. Stops one block from the campus.

Q17 (NYC Transit Authority)
Runs from Main Street, Flushing (IRT and LIRR stations), to 165th Street terminal in Jamaica (passing the IND 179th Street station). Travels along Kissena Boulevard, the LIE service road, 188th Street, and Hillside Avenue. Stops at Kissena Boulevard and the LIE, two blocks from the main gate.

Q88 (NYC Transit Authority)
Runs from Springfield Boulevard and Union Turnpike along Springfield Boulevard to 73rd Avenue, along 73rd Avenue to 188th Street, along 188th Street to the LIE, along the LIE service road to Queens Boulevard and Woodhaven Boulevard. Stops at Kissena Boulevard and the LIE, two blocks from the main gate.
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Graduate Jefferson Hall, 1st flr.
Undergraduate Jefferson Hall, 1st flr.
Affirmative Action Kiely 171
Bursar Jefferson 200
Dean of Education Kiely 1307
Dean of the Faculty - Arts Kiely 904
Dean of the Faculty - Mathematics & Natural Sciences Remsen 125
Dean of the Faculty - Social Sciences Temp 1, 101
Dean of Students B. Bldg. 102
Dean of Undergraduate Studies & Retention Kiely 217

President Kiely 1200
Provost Kiely 1104
Registrar Jefferson 100

DEPARTMENTAL OFFICES

Accounting & Information Systems
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Art Klapper 172
Biology SB D346
Chemistry & Biochemistry Remsen 206
Classical, Middle Eastern & Asian Languages & Cultures King 203
Comparative Literature Kiely 310
Computer Science SB A202
Drama, Theatre & Dance Rathaus 213
Earth & Environmental Sciences SB D216
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Linguistics & Communication Disorders Kiessner 347
Mathematics Kiely 237
Media Studies G Bldg. 100
Music Music Bldg. 203
Philosophy Modular Bldg. 1, 121
Physics SB B334
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Psychology SB E318
Secondary Education & Youth Services Klapper 310
Sociology Kiessner 259
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Urban Studies Temp 3, 6

RESEARCH CENTERS/INSTITUTES

Asian/American Center Temp 3, 23
Asian American and Asian Research Institute 33 West 42nd Street, New York
Center for Biology of Natural Systems 163-03 Horace Harding Expressway
(4th flr.), Flushing
Center for Byzantine & Modern Greek Studies Jefferson 302
Center for Improvement of Education Modular Bldg. 3, 329
Center for Jewish Studies Jefferson 311
John D. Calandra Italian American Institute 33 West 42nd Street, New York
Michael Harrington Center for Democratic Values & Social Change Temp 3, 14
Taft Institute for Government Klapper 307

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Academic Senate Kiely 810
Academic Support Center Kiely 227
Academic Support Lab Kiely 131
ACE - Adult Collegiate Education Kiely 134A
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Africana Studies Delany 125
Alumni Affairs Kiely 306
American Studies Klapper 345
Art Center Rosenthal, 6th flr.
Art Library Rosenthal, 6th flr.
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Audio-Visual Services Kiely 183
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Caumsett State Park, Lloyd Harbor, Long Island
Child Development Center Kiely 245
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Continuing Education Kiely 111
Corporate & Foundation Relations Kiely 147
Counselors & Advisers
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